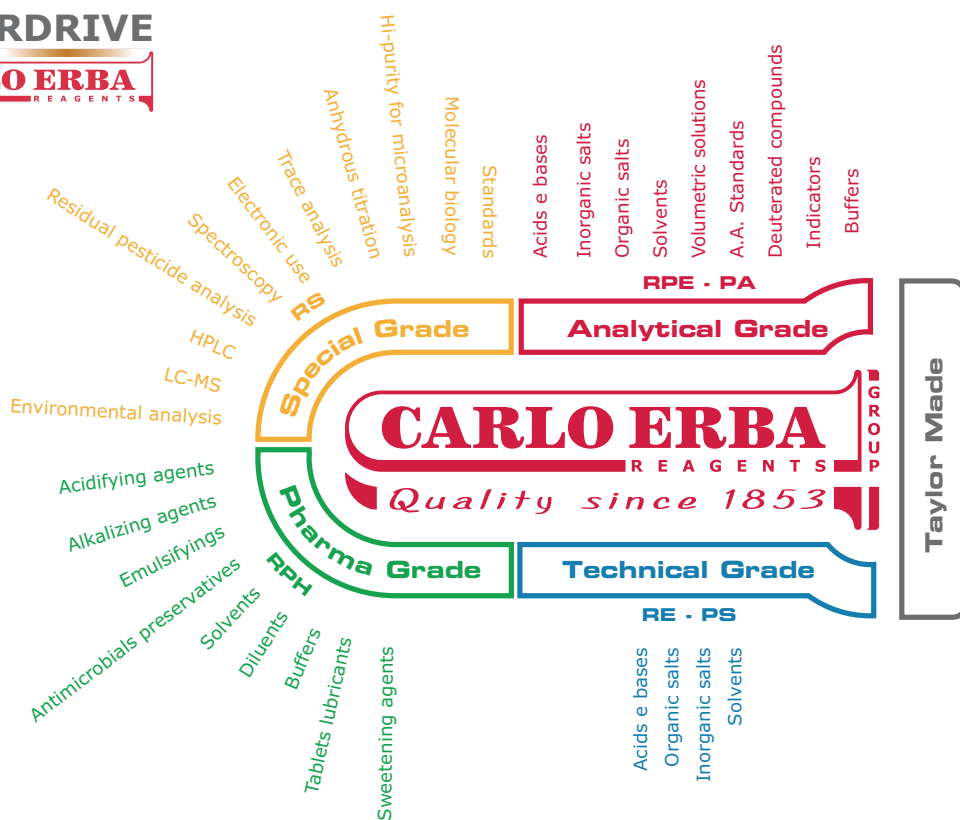


# SECTION III PRODUCT LIST



### Common international abbreviations

<b>AAS</b>	Atomic absorption spectrometry	<b>ISO</b>	International Organization for Standardization
<b>ACS</b>	American Chemical Society	<b>IUPAC</b>	International Union of Pure and Applied Chemistry
<b>AFNOR</b>	French association for standardization (Association Francaise de Normalisation)	<b>JP</b>	The Pharmacopoeia of Japan
<b>APHA</b>	American Public Health Association	<b>LC</b>	Liquid chromatography
<b>ASTM</b>	American Society for Testing and Material	<b>LLC</b>	Liquid-liquid chromatography
<b>BAT</b>	Biological Substance Tolerance Value	<b>LLPC</b>	Liquid-liquid partition chromatography
<b>BET</b>	Surface determination according to Brunauer, Emmet and Teller	<b>LSC</b>	Liquid-solid chromatography
<b>BOD</b>	Biochemical oxygen demand	<b>MAC</b>	Maximum allowed concentration
<b>BP</b>	British Pharmacopoeia	<b>MOS</b>	Metal-oxide semiconductor
<b>BPC</b>	British Pharmaceutical Codex	<b>NBS</b>	National Bureau of Standard
<b>BRN</b>	Beilstein registration number	<b>NF</b>	The National Formulary / USA
<b>BSA</b>	Bovine serum albumin	<b>NIST</b>	National Institute of Standard and Technology
<b>BS</b>	British Standard	<b>NIOSH</b>	National Institute for Occupational Safety and Health
<b>CAS</b>	Chemical Abstracts Service	<b>NMR</b>	Nuclear magnetic resonance spectrometry
<b>CGS</b>	Centimeter-gram-second (system of units)	<b>NNR</b>	New and Nonofficial Remedies
<b>C.I. No.</b>	Colour Index Number	<b>OAB</b>	Österreichisches Arzneibuch
<b>COD</b>	Chemical oxygen demand	<b>PA</b>	Polyamide
<b>C. France</b>	Codex Francais	<b>PAH</b>	Polycyclic aromatic hydrocarbons
<b>DAB</b>	Deutsches Arzneibuch (German Pharmacopoeia)	<b>PCB</b>	Polychlorinated biphenyls
<b>DAC</b>	Deutscher Arzneimittel-Codex (German Pharmaceutical Codex)	<b>Ph Belg</b>	Pharmacopée Belge
<b>DIN</b>	German standard institute (Deutsche Institut für Normung)	<b>Ph Dan</b>	Pharmacopoea Danica
<b>DSC</b>	Differential scanning calorimetry	<b>Ph Eur</b>	European Pharmacopoeia
<b>ECD</b>	Electron capture detector	<b>Ph F</b>	Pharmacopoea Fennica
<b>EPA</b>	Environmental Protection Agency (USA)	<b>Ph Franc</b>	Pharmacopée Francaise
<b>Erg B</b>	Ergänzung zum deutschen Arzneibuch (supplemento alla German Pharmacopoeia)	<b>Ph Helv</b>	Pharmacopoea Helvetica
<b>F Bras</b>	Farmacopea Brasiliana	<b>Ph Ned</b>	Pharmacopoea Nederlandica
<b>FCC</b>	Food Chemicals Codex / USA	<b>Ph Nord</b>	Pharmacopoea Nordica
<b>FDA</b>	Food and Drug Administration (USA)	<b>Ph Norv</b>	Pharmacopoea Norvegica
<b>FD &amp; C</b>	Food, Drug and Cosmetic (USA)	<b>Ph Svec</b>	Pharmacopoea Svecica
<b>FIA</b>	Fluorescence indicator analysis	<b>PLC</b>	Preparative-layer chromatography
<b>FID</b>	Flame ionization detector	<b>PND</b>	Phosphorus nitrogen detector
<b>FIP</b>	International pharmaceutical federation (Federation Internationale Pharmaceutique)	<b>PTFE</b>	Polytetrafluoroethylene
<b>FU</b>	Farmacopea Ufficiale della Repubblica Italiana	<b>PVDF</b>	Polyvinylidene difluoride
<b>GC</b>	Gas chromatography	<b>RI</b>	Refractive Index
<b>GLP</b>	Good Laboratory Practice	<b>RNA</b>	Ribonucleic acid
<b>GMP</b>	Good Manufacturing Practice	<b>RP</b>	Reverse-phase chromatography
<b>GPC</b>	Gel permeation chromatography	<b>RTECS</b>	Registry of Toxic Effects of Chemical Substances
<b>HDPE</b>	High-density polyethylene	<b>SI</b>	International System of Units
<b>HIC</b>	Hydrophobic interaction chromatography	<b>TCD</b>	Thermal Conductivity Detector
<b>HPLC</b>	High-performance liquid chromatography	<b>TLC</b>	Thin-layer chromatography
<b>HPTLC</b>	High-performance thin-layer chromatography	<b>TOC</b>	Total organic carbon
<b>IC</b>	Ion chromatography	<b>ULSI</b>	Ultra large-scale integrated circuits
<b>ICP</b>	Induction-coupled plasma	<b>USP</b>	The United States Pharmacopoeia
<b>IP</b>	The Pharmacopoeia of India	<b>UV</b>	Ultraviolet spectroscopy
<b>IR</b>	Infrared spectroscopy	<b>UV/VIS</b>	UV/visible spectroscopy
		<b>VLSI</b>	Very large-scale integrated circuits
		<b>WHO</b>	World Health Organization

## Absorbent for spilt liquids

Assorbente per liquidi versati - Absorbant pour liquides repandus - Absorbente para líquidos derramados

A

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## Absorbent for spilt liquids - Technical Grade

## RE-Pure

CARLO ERBA  
Quality since 1829

Description Hazel granules

Code	Size	Packaging
300101	g 1000	Plastic jar
300102	g 5000	Bottle

For further information on above products, see following product/application section(s)  
Adsorbants (p. 22)

## Acetal

Acetale - Acétal - Acetal

**CH<sub>3</sub>CH(OAc)<sub>2</sub>**  
Atomic weight: 118,17  
CAS N: 105-57-7  
EEC N: 203-310-6

Transport classification  
ONU n. 1088  
Transport class: 3  
Packaging group: II



R: 11-36/38  
S: 9-16-33

## Acetal - Technical Grade

## RE-Pure

CARLO ERBA  
Quality since 1829

Assay (GLC) >= 98.5 % Description Clear colourless liquid Density at 20° C 0.822 ± 0.829  
Refractive index at 20° 1.3790 + 1.3850

Code	Size	Packaging
400155	ml 100	Glass bottle

## Acetaldehyde

Acetaldeide - Acétaldéhyde - Acetaldehído

**CH<sub>3</sub>CHO**  
Atomic weight: 44,054  
CAS N: 75-07-0  
EEC N: 200-836-8

Transport classification  
ONU n. 1089  
Transport class: 3  
Packaging group: I



R: 12-36/37-40  
S: 16-33-36/37

## Acetaldehyde - Analytical Grade

## RPE-For analysis-Reag. Ph.Eur.-Reag. USP

CARLO ERBA  
Quality since 1829

Assay (GLC) >=99 % Description Clear colourless liquid Density at 20° C 0.780 ± 0.786  
Refractive index at 20° 1.330 ± 1.334 Water (K.F.) <=0.2 % Acidity (acetic acid) <=500 ppm  
Residue on evaporation <=10 ppm Boiling point ~ 21 °C

Code	Size	Packaging
415265	ml 500	Glass bottle

## Acetamide

Acetamide - Acétamide - Acetamida

**CH<sub>3</sub>CONH<sub>2</sub>**  
Atomic weight: 59,068  
CAS N: 60-35-5  
EEC N: 200-473-5



R: 40  
S: 36/37

## Acetamide - Analytical Grade

## RPE-For analysis

CARLO ERBA  
Quality since 1829

Assay (ex nitrogen) 99 + 100 % Description Colourless crystals Melting point 78.5 ± 81.5 °C  
Acetate <=0.2 % Chloride <=20 ppm Alcohol-benzene insol. <=100 ppm  
Heavy metals (Pb) <=5 ppm Residue on ignition <=100 ppm Sulphate <=20 ppm  
Fe <=5 ppm

Code	Size	Packaging
400204	g 100	Plastic jar

## p-Acetamidophenol

p-Acetil aminofenolo - Acétylaminophénol - p-Acetilaminofenol

**CH<sub>3</sub>CONHC<sub>6</sub>H<sub>4</sub>OH**  
Atomic weight: 151,160  
CAS N: 103-90-2  
EEC N: 203-157-5

## p-Acetamidophenol - Analytical Grade

A

## p-Acetamidophenol - Analytical Grade



## RPE-For analysis

Assay (ex nitrogen) >=98 %	Description White crystalline powder	Melting point 167.5 + 169.5 ° C
pH saturated sol. 25° C 5.5 + 6.5	Total chlorine <=250 ppm	Heavy metals (Pb) <=50 ppm
Residue on ignition <=100 ppm	Total sulphur <=20 ppm	p-Aminophenol <=50 ppm
Fe <=50 ppm		

Code	Size	Packaging
400501	g 10	Glass jar

B

C

D

## Acetanilide

Acetanilide - Acétanilide - Acetanilida

CH<sub>3</sub>CONHC<sub>6</sub>H<sub>5</sub>

Atomic weight: 135,16

CAS N: 103-84-4

EEC N: 203-150-7



R: 20/21/22

S: 13

E

F

## Acetanilide - Analytical Grade



## RPE-For analysis

Assay (GLC) >= 99.0 %	Description Whitish powder	Melting point 111 + 115 ° C
Water (K.F.) <= 0.2 %	Residue on ignition <= 0.1 %	

Code	Size	Packaging
400255	g 250	Plastic jar

G

H

## Acetic acid glacial

Acido acetico glaciale - Acide acétique glacial - Acido acético glacial

CH<sub>3</sub>COOH

Atomic weight: 60,053

CAS N: 64-19-7

EEC N: 200-580-7

Transport classification

ONU n. 2789

Transport class: 8

Transport class: 8.12

Secondary risk: 3

Packaging group: II



R: 10-35

S: 23-26-45

J

K

## Acetic acid glacial - Analytical Grade



## RPE-ACS-for analysis-Reag. Ph.Eur.-Reag. USP

Assay (acidimetric) 99.9 + 100.5 %	Description Clear liquid	Colour (APHA) <=10
Water miscibility Conform	Titration base Conform	Subst. reducing KMnO <sub>4</sub> Conform
Density at 20° C 1.0495 + 1.0503	Refractive index at 20° 1.3711 + 1.3731	Boiling point 118.3 + 118.8 ° C
Freezing point >=16.24 ° C	Residue on evaporation <=5 ppm	Formic acid <=0.1 %
Acetic anhydride <=100 ppm	Chloride <=1 ppm	Carbonyl Compounds (CO) <=2 ppm
Phosphate <=0.5 ppm	Heavy metals (Pb) <=0.5 ppm	Sulphate <=0.5 ppm
Ag <=0.02 ppm	Al <=0.05 ppm	As <=0.01 ppm
Ba <=0.1 ppm	Be <=0.02 ppm	Bi <=0.02 ppm
Ca <=0.2 ppm	Cd <=0.05 ppm	Co <=0.01 ppm
Cr <=0.03 ppm	Cu <=0.01 ppm	Fe <=0.2 ppm
K <=0.1 ppm	Li <=0.02 ppm	Mg <=0.1 ppm
Mn <=0.01 ppm	Mo <=0.05 ppm	Na <=0.5 ppm
Ni <=0.03 ppm	Pb <=0.02 ppm	Sr <=0.02 ppm
Ti <=0.1 ppm	Tl <=0.05 ppm	V <=0.05 ppm
Zn <=0.05 ppm	Zr <=0.1 ppm	Reducing chromic acid Conform ACS

Code	Size	Packaging
401421	ml 1000	Glass bottle PVC coated
401422	ml 1000	Glass bottle
401424	ml 2500	Glass bottle
401425	kg 30	Plastic drum

Keep at T &gt; 20°C

R

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Z

## Acetic acid glacial - Analytical Grade



A

## RPE-For analysis

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K

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M

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O

P

Q

R

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U

V

W

X

Y

Z

Assay (acidimetric) $\geq 99.9$ %	Description Clear liquid	Colour (APHA) $\leq 10$
Water miscibility Conform	Subst. reducing KMnO <sub>4</sub> Conform	Density at 20° C 1.0495 + 1.0503
Refractive index at 20° 1.3711 + 1.3731	Boiling point 118.3 + 118.8 °C	Freezing point $\geq 16.24$ °C
Residue on evaporation $\leq 20$ ppm	Formic acid $\leq 0.1$ %	Acetic anhydride $\leq 100$ ppm
Chloride $\leq 1$ ppm	Carbonyl Compounds (CO) $\leq 2$ ppm	Phosphate $\leq 0.5$ ppm
Heavy metals (Pb) $\leq 0.5$ ppm	Sulphate $\leq 0.5$ ppm	Ag $\leq 0.02$ ppm
Al $\leq 0.05$ ppm	As $\leq 0.01$ ppm	Ba $\leq 0.1$ ppm
Be $\leq 0.02$ ppm	Bi $\leq 0.02$ ppm	Ca $\leq 0.2$ ppm
Cd $\leq 0.05$ ppm	Co $\leq 0.01$ ppm	Cr $\leq 0.03$ ppm
Cu $\leq 0.01$ ppm	Fe $\leq 0.5$ ppm	K $\leq 0.1$ ppm
Li $\leq 0.02$ ppm	Mg $\leq 0.1$ ppm	Mn $\leq 0.01$ ppm
Mo $\leq 0.05$ ppm	Na $\leq 0.5$ ppm	Ni $\leq 0.03$ ppm
Pb $\leq 0.02$ ppm	Sr $\leq 0.02$ ppm	Ti $\leq 0.1$ ppm
Tl $\leq 0.05$ ppm	V $\leq 0.05$ ppm	Zn $\leq 0.05$ ppm
Zr $\leq 0.1$ ppm		

Code	Size	Packaging
401391	ml 1000	Glass bottle
524520	ml 1000	Plastic bottle
401392	ml 2500	Glass bottle
524521	ml 2500	Plastic bottle
401396	kg 30	Plastic drum
401397	kg 200	Polythene-metal drum

Keep at T &gt; 20°C

For further information on above products, see following product/application section(s)

Microscopy (p. 58)

## Acetic acid glacial - Special Grade

## RS-For titration in non-aqueous medium



Assay (freezing point) $\geq 99.8$ %	Description Clear colourless liquid	Density at 20° C 1.049 + 1.051
--------------------------------------	-------------------------------------	--------------------------------

Code	Size	Packaging
401453	ml 1000	Glass bottle
401455	ml 2500	Glass bottle

## RS-MOS For electronic use-ERBATRON



Assay (freezing point) $\geq 99.9$ %	Description Clear liquid	Colour (APHA) $\leq 10$
Water miscibility Conform	Density at 20° C 1.0495 + 1.0503	Boiling point 118.3 + 118.8 °C
Residue on evaporation $\leq 5$ ppm	Formic acid $\leq 50$ ppm	Acetic anhydride $\leq 100$ ppm
Chloride $\leq 1$ ppm	Carbonyl Compounds (CO) $\leq 2$ ppm	Phosphate $\leq 0.1$ ppm
Heavy metals (Pb) $\leq 0.2$ ppm	Reducing chromic acid $\leq 30$ ppm	Subst. reducing KMnO <sub>4</sub> $\leq 10$ ppm
Sulphate $\leq 0.5$ ppm	Ag $\leq 0.02$ ppm	Al $\leq 0.01$ ppm
As $\leq 0.005$ ppm	Au $\leq 0.05$ ppm	B $\leq 0.01$ ppm
Ba $\leq 0.1$ ppm	Be $\leq 0.02$ ppm	Bi $\leq 0.02$ ppm
Ca $\leq 0.2$ ppm	Cd $\leq 0.01$ ppm	Co $\leq 0.01$ ppm
Cr $\leq 0.02$ ppm	Cu $\leq 0.01$ ppm	Fe $\leq 0.1$ ppm
Ga $\leq 0.02$ ppm	In $\leq 0.02$ ppm	K $\leq 0.1$ ppm
Li $\leq 0.02$ ppm	Mg $\leq 0.05$ ppm	Mn $\leq 0.01$ ppm
Mo $\leq 0.05$ ppm	Na $\leq 0.2$ ppm	Ni $\leq 0.02$ ppm
Pb $\leq 0.01$ ppm	Pt $\leq 0.05$ ppm	Sb $\leq 0.005$ ppm
Sn $\leq 0.02$ ppm	Sr $\leq 0.02$ ppm	Ta $\leq 0.1$ ppm
Ti $\leq 0.05$ ppm	Tl $\leq 0.05$ ppm	V $\leq 0.05$ ppm
Zn $\leq 0.05$ ppm	Zr $\leq 0.05$ ppm	

Code	Size	Packaging
401481	ml 2500	Glass bottle

A

## Acetic acid glacial - Special Grade

## RS-RSE For electronic use-ERBATRON



Assay (acidimetric) >=99.9 %	Description Clear liquid	Colour (APHA) <=10
Water miscibility Conform	Freezing point >=16.24 °C	Density at 20° C 1.0495 + 1.0503
Boiling point 118.3 + 118.8 °C	Residue on evaporation <=5 ppm	Formic acid <=0.1 %
Acetic anhydride <=100 ppm	Chloride <=1 ppm	Carbonyl Compounds (CO) <=2 ppm
Phosphate <=0.1 ppm	Heavy metals (Pb) <=0.2 ppm	Reducing chromic acid <=100 ppm
Subst. reducing KMnO4 <=10 ppm	Sulphate <=0.5 ppm	Ag <=0.02 ppm
Al <=0.01 ppm	As <=0.005 ppm	Au <=0.05 ppm
B <=0.01 ppm	Ba <=0.1 ppm	Be <=0.02 ppm
Bi <=0.02 ppm	Ca <=0.2 ppm	Cd <=0.01 ppm
Co <=0.01 ppm	Cr <=0.03 ppm	Cu <=0.01 ppm
Fe <=0.1 ppm	Ga <=0.02 ppm	In <=0.02 ppm
K <=0.1 ppm	Li <=0.02 ppm	Mg <=0.05 ppm
Mn <=0.01 ppm	Mo <=0.05 ppm	Na <=0.2 ppm
Ni <=0.03 ppm	Pb <=0.01 ppm	Pt <=0.05 ppm
Sb <=0.005 ppm	Sn <=0.02 ppm	Sr <=0.02 ppm
Ta <=0.1 ppm	Ti <=0.05 ppm	Tl <=0.05 ppm
V <=0.05 ppm	Zn <=0.05 ppm	Zr <=0.05 ppm

Code	Size	Packaging
401462	ml 2500	Glass bottle
401465	kg 30	Plastic drum
401464	kg 200	Polythene-metal drum

## RS-Superpure-for trace analysis



Assay (acidimetric) >= 99.9 %	Description Clear colourless liquid	Ag <= 1 ppb
Al <= 1 ppb	As <= 1 ppb	Ba <= 1 ppb
Be <= 1 ppb	Bi <= 1 ppb	Ca <= 1 ppb
Cd <= 1 ppb	Cr <= 1 ppb	Co <= 1 ppb
Cu <= 1 ppb	Fe <= 1 ppb	K <= 1 ppb
Mg <= 1 ppb	Mn <= 1 ppb	Mo <= 1 ppb
Na <= 1 ppb	Ni <= 1 ppb	Pb <= 1 ppb
Sb <= 1 ppb	Sn <= 1 ppb	Sr <= 1 ppb
Ti <= 1 ppb	V <= 1 ppb	Zn <= 1 ppb
Zr <= 1 ppb	U <= 1 ppb	Th <= 1 ppb
Ce <= 0.5 ppb	Cs <= 0.5 ppb	Dy <= 0.5 ppb
Er <= 0.5 ppb	Eu <= 0.5 ppb	Gd <= 0.5 ppb
Ga <= 0.5 ppb	Ge <= 0.5 ppb	Hf <= 0.5 ppb
Ho <= 0.5 ppb	In <= 0.5 ppb	La <= 0.5 ppb
Li <= 1 ppb	Lu <= 0.5 ppb	Nd <= 0.5 ppb
Pt <= 0.5 ppb	Pr <= 0.5 ppb	Re <= 0.5 ppb
Rh <= 0.5 ppb	Rb <= 0.5 ppb	Ru <= 0.5 ppb
Sm <= 0.5 ppb	Sc <= 0.5 ppb	Se <= 1 ppb
Te <= 0.5 ppb	Tb <= 0.5 ppb	Tl <= 0.5 ppb
Tm <= 0.5 ppb	W <= 0.5 ppb	Yb <= 0.5 ppb
Y <= 0.5 ppb	Colour (APHA) <= 10	

Code	Size	Packaging
401402	ml 500	Glass bottle
401403	ml 1000	Glass bottle
401404	ml 2500	Glass bottle

For further information on above products, see following product/application section(s)

Trace metal analysis (p. 86)

## RS-Ultrapure-for trace analysis



Assay (acidimetric) >= 99.9 %	Description Clear colourless liquid	Ag <= 50 ppt
Al <= 50 ppt	As <= 50 ppt	Ba <= 10 ppt
Be <= 10 ppt	Bi <= 10 ppt	Ca <= 50 ppt
Cd <= 10 ppt	Co <= 10 ppt	Cr <= 10 ppt
Cu <= 50 ppt	Fe <= 50 ppt	K <= 50 ppt
Mg <= 50 ppt	Mn <= 10 ppt	Mo <= 10 ppt
Na <= 100 ppt	Ni <= 50 ppt	Pb <= 10 ppt
Sb <= 50 ppt	Sn <= 50 ppt	Sr <= 10 ppt
Ti <= 10 ppt	V <= 10 ppt	Zn <= 50 ppt
Zr <= 10 ppt	U <= 1 ppt	Th <= 1 ppt
Ce <= 10 ppt	Cs <= 10 ppt	Dy <= 1 ppt
Er <= 1 ppt	Eu <= 1 ppt	Gd <= 1 ppt
Ga <= 10 ppt	Ge <= 10 ppt	Hf <= 10 ppt
Ho <= 1 ppt	In <= 1 ppt	La <= 1 ppt
Li <= 10 ppt	Lu <= 10 ppt	Nd <= 1 ppt
Pt <= 50 ppt	Pr <= 1 ppt	Re <= 10 ppt
Rh <= 50 ppt	Rb <= 10 ppt	Ru <= 50 ppt
Sm <= 1 ppt	Sc <= 10 ppt	Te <= 1 ppt
Tb <= 1 ppt	Tm <= 1 ppt	W <= 10 ppt
Yb <= 1 ppt	Y <= 1 ppt	Tl <= 10 ppt

Code	Size	Packaging
401361	ml 500	Plastic bottle

For further information on above products, see following product/application section(s)

Trace metal analysis (p. 86)

## Acetic acid glacial - Pharmaceutical Grade

## Acetic acid glacial - Pharmaceutical Grade

## RPH-According to pharmacopoeia: Ph.Eur.-USP-NF-FU-DAB



Assay (acidimetric) 99.5 + 100.5 %	Description Clear colourless liquid	Appearance of solution Conform Ph.Eur.
Reducing impurities Conform Ph.Eur.	Ready oxidizable substances Conform USP-NF	Freezing point $\geq 15.6$ °C
Residue on evaporation $\leq 50$ mg/l	Chloride $\leq 25$ mg/l	Sulphate $\leq 50$ mg/l
Heavy metals (Pb) $\leq 5$ ppm	Fe $\leq 5$ ppm	Origin (BSE/TSE) Synthesis
Residual solvents (CPMP/ICH/283/95) Conform		

Code	Size	Packaging
302018	ml 100	Bottle
302016	ml 1000	Glass bottle
302011	ml 2500	Glass bottle
302015	kg 30	Plastic drum
302013	kg 200	Polythene-metal drum

## Acetic acid glacial - Technical Grade

## RE-Pure



Assay $\geq 99$ %	Description Clear liquid	Density at 20°C 1.049 + 1.051
Boiling point 117.5 + 118.5 °C		

Code	Size	Packaging
528520	ml 5000	Plastic tank

## RE-Puro for fibers-ERBATECH



Assay (freezing point) $\geq 99.8$ %	Description Clear liquid	Colour (APHA) $\leq 10$
Water miscibility Conform	Density at 20° C 1.049 + 1.051	Refractive index at 20° 1.3711 + 1.3731
Boiling point 118.3 + 118.8 °C	Subst. reducing KMnO4 $\leq 40$ ppm	Residue on evaporation $\leq 8$ ppm
Formic acid $\leq 0.1$ %	Acetic anhydride $\leq 500$ ppm	Chloride $\leq 1$ ppm
Carbonyl Compounds (CO) $\leq 50$ ppm	Heavy metals (Pb) $\leq 1$ ppm	Sulphate $\leq 1$ ppm
Al $\leq 0.1$ ppm	As $\leq 0.5$ ppm	Cu $\leq 0.1$ ppm
Fe $\leq 0.5$ ppm	Ni $\leq 0.1$ ppm	

Code	Size	Packaging
302022	kg 30	Plastic drum
302021	kg 200	Polythene-metal drum

## Acetic acid 96%

Acido acetico 96% - Acide acétique 96% - Acido acético 96%

CH<sub>3</sub>COOHAtomic weight: 60,053  
CAS N: 64-19-7  
EEC N: 200-580-7

## Transport classification

ONU n. 2789  
Transport class: 8  
Secondary risk: 3  
Packaging group: IIR: 10-35  
S: 23-26-45

## Acetic acid 96% - Analytical Grade

## PA-PUREX-for analysis



Assay (GC) $\geq 99.8$ %	Refractive index at 20°C 1.37 - 1.374	Water content (K.F.) $\leq 1500$ mg/Kg
Non volatile residue $\leq 10$ mg/Kg	Colour $\leq 10$ Hazen	Acetic anhydride $\leq 0.025$ %
Formic acid content $\leq 0.05$ %	acetaldehyde $\leq 500$ mg/Kg	Chloride (Cl-) $\leq 1$ mg/Kg
Sulphate (SO <sub>4</sub> <sup>-</sup> ) $\leq 1$ mg/Kg	Heavy metals (as Pb) $\leq 2$ mg/Kg	Aluminium (Al) $\leq 0.05$ mg/Kg
Barium (Ba) $\leq 0.1$ mg/Kg	Cadmium (Cd) $\leq 0.05$ mg/Kg	Cobalt (Co) $\leq 0.05$ mg/Kg
Iron (Fe) $\leq 1$ mg/Kg	Magnesium (Mg) $\leq 0.1$ mg/Kg	Manganese (Mn) $\leq 0.05$ mg/Kg
Lead (Pb) $\leq 0.05$ mg/Kg	Zinc (Zn) $\leq 0.1$ mg/Kg	Arsenic (As) $\leq 0.02$ mg/Kg

Code	Size	Packaging
P0070515	ml 1000	Plastic bottle
P00725P15	ml 1000	Plastic bottle

## Acetic acid 96% - Special Grade

## RS-For potentiometry



Assay (GC) $\geq 99.8$ %	Refractive index at 20°C 1.37 - 1.374	Water content (K.F.) $\leq 1000$ mg/Kg
Non volatile residue $\leq 10$ mg/Kg	Colour $\leq 10$ Hazen	Titrate base Conform
K <sub>2</sub> Cr <sub>2</sub> O <sub>7</sub> reducing substances (as O) $\leq 0.0030$ %	Acetic anhydride $\leq 0.025$ %	Chloride (Cl-) $\leq 1$ mg/Kg
Sulphate (SO <sub>4</sub> <sup>-</sup> ) $\leq 1$ mg/Kg	Aluminium (Al) $\leq 0.05$ mg/Kg	Heavy metals (as Pb) $\leq 2$ mg/Kg
Barium (Ba) $\leq 0.1$ mg/Kg	Cadmium (Cd) $\leq 0.05$ mg/Kg	Cobalt (Co) $\leq 0.05$ mg/Kg
Iron (Fe) $\leq 1$ mg/Kg	Magnesium (Mg) $\leq 0.1$ mg/Kg	Manganese (Mn) $\leq 0.05$ mg/Kg
Lead (Pb) $\leq 0.05$ mg/Kg	Zinc (Zn) $\leq 0.1$ mg/Kg	Arsenic (As) $\leq 0.02$ mg/Kg

Code	Size	Packaging
P00725P21	ml 2500	Glass bottle

## Acetic acid 96% - Technical Grade

A  
B  
C  
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N  
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P  
Q  
R  
S  
T  
U  
V  
W  
X  
Y  
Z

## Acetic acid 96% - Technical Grade

## PS-Pure-for synthesis

sds

Assay (GC) >= 99.5 %	Refractive index at 20°C 1.37 - 1.374	Water content (K.F.) <= 3000 mg/Kg
Colour <= 10 Hazen	Chloride (Cl-) <= 2 mg/Kg	Sulphate (SO4-) <= 2 mg/Kg
Heavy metals (as Pb) <= 10 mg/Kg		

Code	Size	Packaging
P0070222	ml 5000	Plastic drum
P0070252	l 30	Plastic drum

## RE-Pure

CARLO ERBA  
Quality since 1874

Assay (acidimetric) >=96 %	Description Clear colourless liquid	Density at 20° C 1.057 + 1.059
Residue on evaporation <=100 ppm	Metalli pesanti(Pb) <=50 ppm	Sulphate <=1000 ppm
Iron <=50 ppm		

Code	Size	Packaging
302002	ml 1000	Glass bottle
302003	ml 2500	Glass bottle
302005	kg 25	Plastic drum
302007	kg 50	Plastic drum
302004	kg 200	Plastic drum

## Acetic acid 80%

Acido acetico 80% - Acide acétique 80% - Acido acético 80%

CH<sub>3</sub>COOH  
Atomic weight: 60,053  
CAS N: 64-19-7  
EEC N: 200-580-7

Transport classification  
ONU n. 2790  
Transport class: 8  
Packaging group: II



R: 34  
S: 23-26-45

## Acetic acid 80% - Special Grade

## RS-RSE For electronic use-ERBATRON

CARLO ERBA  
Quality since 1874

Assay (acidimetric) 79.0 + 81.0 %	Description Clear liquid	Colour (APHA) <=10
Water miscibility Conform	Density at 20° C 1.069 + 1.071	Residue on evaporation <=5 ppm
Formic acid <=50 ppm	Acetic anhydride <=100 ppm	Chloride <=1 ppm
Carbon. comp. (CH <sub>3</sub> CHO) <=2 ppm	Phosphate <=0.1 ppm	Heavy metals (Pb) <=0.2 ppm
Reducing chromic acid <=30 ppm	Subst. reducing KMnO <sub>4</sub> <=10 ppm	Sulphate <=0.5 ppm
Ag <=0.02 ppm	Al <=0.01 ppm	As <=0.005 ppm
Au <=0.05 ppm	B <=0.01 ppm	Ba <=0.1 ppm
Be <=0.02 ppm	Bi <=0.02 ppm	Ca <=0.2 ppm
Cd <=0.01 ppm	Co <=0.01 ppm	Cr <=0.02 ppm
Cu <=0.01 ppm	Fe <=0.1 ppm	Ga <=0.02 ppm
In <=0.02 ppm	K <=0.1 ppm	Li <=0.02 ppm
Mg <=0.05 ppm	Mn <=0.01 ppm	Mo <=0.05 ppm
Na <=0.2 ppm	Ni <=0.02 ppm	Pb <=0.01 ppm
Pt <=0.05 ppm	Sb <=0.005 ppm	Sn <=0.02 ppm
Sr <=0.02 ppm	Ta <=0.1 ppm	Ti <=0.05 ppm
Tl <=0.05 ppm	V <=0.05 ppm	Zn <=0.05 ppm
Zr <=0.05 ppm		

Code	Size	Packaging
401503	kg 30	Plastic drum

## Acetic acid 80% - Technical Grade

## RE-Pure

CARLO ERBA  
Quality since 1874

Assay (acidimetric) 80.5 + 82.5 %	Description Clear liquid	Colour (APHA) <=10
Water miscibility Conform	Density at 20° C 1.069 + 1.071	Subst. reducing KMnO <sub>4</sub> <=40 ppm
Residue on evaporation <=30 ppm	Formic acid <=50 ppm	Alcohol acetone acetaldehyd <=50 ppm
Acetic anhydride <=500 ppm	Chloride <=1 ppm	Heavy metals (Pb) <=2 ppm
Sulphate <=1 ppm	Al <=0.1 ppm	As <=0.4 ppm
Cu <=0.1 ppm	Fe <=0.5 ppm	Ni <=0.1 ppm

Code	Size	Packaging
301852	kg 50	Plastic drum
301853	kg 200	Plastic drum

## Acetic acid 45%

Acido acetico 45% - Acide acétique 45% - Acido acético 45 %

CH<sub>3</sub>COOH  
Atomic weight: 60,053  
CAS N: 64-19-7  
EEC N: 200-580-7

Transport classification  
ONU n. 2790  
Transport class: 8  
Packaging group: III



R: 34  
S: 23-26-45

## Acetic acid 45% - Technical Grade



A

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## Acetic acid 45% - Technical Grade

## RE-Pure-for glassware washing



Assay (acetic acid) 44 + 46 % Description Clear colourless liquid

Code	Size	Packaging
526545	ml 5000	Plastic bottle
526546	l 10	Plastic drum

## Acetic acid 28%

Acido acetico 28% - Acide acétique 28% - Acido acético 28 %

**CH<sub>3</sub>COOH**  
Atomic weight: 60,053  
CAS N: 64-19-7  
EEC N: 200-580-7

**Transport classification**  
ONU n. 2790  
Transport class: 8  
Packaging group: III



R: 34  
S: 23-26-45

## Acetic acid 28% - Technical Grade

## RE-Pure



Assay (acidimetric) 28 + 30 % Description Clear colourless liquid Density at 20° C 1.035 + 1.037  
Residue on evaporation <=500 ppm Heavy metals (Pb) <=50 ppm Fe <=20 ppm

Code	Size	Packaging
301826	ml 1000	Bottle

## Acetic acid 12%

Acido acetico 12% - Acide acétique 12% - Acido acético 12 %

**CH<sub>3</sub>COOH**  
Atomic weight: 60,053  
CAS N: 64-19-7  
EEC N: 200-580-7

**Transport classification**  
ONU n. 2790  
Transport class: 8  
Packaging group: III



R: 36/38  
S: 23-26

## Acetic acid 12% - Analytical Grade

## RPE-For analysis



Assay (acidimetric) >=12 % Description Clear colourless liquid Density at 20° C 1.014 + 1.016

Code	Size	Packaging
401531	ml 1000	Bottle

## Acetic acid 10%

Acido acetico 10% - Acide acétique 10% - Acido acético 10 %

**CH<sub>3</sub>COOH**  
Atomic weight: 60,053  
CAS N: 64-19-7  
EEC N: 200-580-7

**Transport classification**  
Packaging group: III



R: 36/38  
S: 23-26

## Acetic acid 10% - Technical Grade

## RE-Pure



Assay (acetic acid) 9 + 11 %

Code	Size	Packaging
508625	ml 5000	Plastic tank

## Acetic acid 1 mol/l

Acido acetico 1 mol/l - Acide acétique 1 mol/l - Acido acético 1 mol/l

**CH<sub>3</sub>COOH**  
Atomic weight: 60,053  
CAS N: 64-19-7  
EEC N: 200-580-7



R: 36/38  
S: 23-26

## Acetic acid 1 mol/l - Analytical Grade

## RPE-For analysis



Assay (acetic acid) 0.995 + 1.005 N Description Clear colourless liquid

Code	Size	Packaging
502000	ml 1000	Glass bottle
524605	ml 5000	Plastic tank

## Acetic acid 0.1 mol/l

Acido acetico 0,1 mol/l - Acide acétique 0,1 mol/l - Acido acético 0,1 mol/l

**CH<sub>3</sub>COOH**  
Atomic weight: 60,053  
CAS N: 64-19-7  
EEC N: 200-580-7



R: 36/38  
S: 23-26

## Acetic acid 0.1 mol/l - Analytical Grade

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Y  
Z**Acetic acid 0.1 mol/l - Analytical Grade****RPE-NORMEX-for analysis**

Description Clear colourless liquid Titration factor 0.995 + 1.005

Code	Size	Packaging
401561	Ampoule	Plastic ampoule

6,005 gr of ac. acetico. Concentrated volumetric solution to prepare 1 l of solution 0,1 N.

For further information on above products, see following product/application section(s)  
Volumetry (p. 92)**Acetic acid 0.01 mol/l**

Acido acetico 0,01 mol/l - Acide acétique 0,01 mol/l - Acido acético 0,01 mol/l

CH<sub>3</sub>COOH  
Atomic weight: 60,053  
CAS N: 64-19-7  
EEC N: 200-580-7**Acetic acid 0.01 mol/l - Analytical Grade****RPE-NORMEX-for analysis**

Description Clear colourless liquid Titration factor 0.995 + 1.005

Code	Size	Packaging
401571	Ampoule	Plastic ampoule

0,6005 gr of CH<sub>3</sub>COOH. Concentrated volumetric solution to prepare 1 l of solution 0,01 N.For further information on above products, see following product/application section(s)  
Volumetry (p. 92)**Acetic acid-d4**

Acido acetico-d4 - Acide acétique-d4 - Acido acético-d4

CD<sub>3</sub>COOD  
Atomic weight: 64,080  
CAS N: 1186-52-3  
EEC N: 200-580-7Transport classification  
ONU n. 2789  
Transport class: 8  
Packaging group: IIR: 10-35  
S: 23-26-45**Acetic acid-d4 - Special Grade****RS-For NMR spectroscopy**

Code	Size	Packaging	Notes
P5013A	ml 5	Ampoule	Isotopic purity 99,50%
P5039	10 x ml 0,75	Ampoule	Isotopic purity 99,91%

For further information on above products, see following product/application section(s)  
NMR Spectroscopy (p. 65)**Acetic Acid/perchloric acid mixture**

Miscela acido acetico/acido perclorico - Mélange acide acétique/ acide perchlorique - Mezcla acido acetico/acido paraclorico

**Acetic Acid/perchloric acid mixture - Special Grade****RS-For agroalimentary analysis**

Code	Size	Packaging
502661	ml 2500	Plastic bottle

Composition: CH<sub>3</sub>COOH: 50%(v/v) HClO<sub>4</sub> 60%: 50%(v/v)**Acetic anhydride**

Anidride acetica - Anhydride acétique - Anhidrido acético

(CH<sub>3</sub>CO)<sub>2</sub>O  
Atomic weight: 102,09  
CAS N: 108-24-7  
EEC N: 203-564-8Transport classification  
ONU n. 1715  
Transport class: 8  
Secondary risk: 3  
Packaging group: IIR: 10-20/22-34  
S: 26-36/37/39-45**Acetic anhydride - Analytical Grade****RPE-ACS-for analysis-Reag. Ph.Eur.-Reag. USP**

Assay (as anhydride) >=98 %	Assay (GLC) >=97.0 %	Description Clear liquid
Colour (APHA) <=20	Identification (I.R.) Conform	Density at 20° C 1.080 ± 1.084
Refractive index at 20° 1.3881 ± 1.3931	Boiling point 136 ± 142 °C	Residue on evaporation <=30 ppm
Subst. reducing KMnO <sub>4</sub> Conform ACS	Chloride <=5 ppm	Phosphate <=10 ppm
Heavy metals (Pb) <=2 ppm	Sulphate <=5 ppm	Fe <=5 ppm

Code	Size	Packaging
421491	ml 1000	Glass bottle
421496	ml 2500	Glass bottle
421493	kg 30	Polythene-carton drum

For further information on above products, see following product/application section(s)  
Adsorbants (p. 22)**Acetic anhydride - Technical Grade**

## Acetic anhydride - Technical Grade

## RE-Pure



Assay (as anhydride) >=96 %	Description Clear colourless liquid	Density at 20° C 1.079 + 1.085
Refractive index at 20° 1.3856 + 1.3956	Residue on evaporation <=100 ppm	Subst. reducing KMnO4 <=500 ppm(10m)

Code	Size	Packaging
316501	ml 1000	Glass bottle
316505	ml 2500	Glass bottle
316503	kg 30	Polythene-carton drum
316502	kg 200	Metal drum

For further information on above products, see following product/application section(s)  
Adsorbants (p. 22)

## Acetic anhydride/Lutydine in THF

Anidride acetica/Lutidina in THF - Anhydride Acétique/Lutidine en solution dans le THF - Anhidrido acético/Lutidina solución en THF

Transport classification  
ONU n. 2924  
Transport class: 3  
Packaging group: II



R: 10-20/22-34  
S: 26-36/37/39-45

## Acetic anhydride/Lutydine in THF - Analytical Grade

## PA-PUREX-for analysis



Water content (K.F.) <= 100 mg/Kg	Colour <= 100 Hazen
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Code	Size	Packaging
P0813502	ml 200	Glass bottle

## Acetone

Acetone - Acétone - Acetona

CH<sub>3</sub>COCH<sub>3</sub>

Atomic weight: 58,081  
CAS N: 67-64-1  
EEC N: 200-662-2

Transport classification  
ONU n. 1090  
Transport class: 3  
Transport class: 3.A.3  
Packaging group: II



R: 11-36-66-67  
S: 9-16-26

## Acetone - Analytical Grade

## PA-PUREX-for analysis



Assay (GC) >= 99.8 %	Refractive index at 20°C 1.357 - 1.361	Water content (K.F.) <= 2000 mg/Kg
Non volatile residue <= 10 mg/Kg	Colour <= 10 Hazen	Free acid (as CH <sub>3</sub> COOH) <= 20 mg/Kg
Diacetyl alcohol <= 500 mg/Kg	Benzene <= 2 mg/Kg	Methanol <= 500 mg/Kg
Ethanol <= 100 mg/Kg	2-Propanol <= 500 mg/Kg	

Code	Size	Packaging
P0050541	l 10	Plastic drum
P0050549	l 25	Plastic drum
P0050568	l 200	Metal drum

## RPE-ACS-for analysis



Assay (GLC) >=99.8 %	Description Clear liquid	Colour (APHA) <=10
Identification (I.R.) Conform	Water miscibility Conform	Density at 20° C 0.790 + 0.792
Refractive index at 20° 1.3581 + 1.3601	Boiling point 55.8 + 56.3 ° C	Water (K.F.) <=0.2 %
Residue on evaporation <=5 ppm	Acidity (acetic acid) <=20 ppm	Alcalinity (NH <sub>3</sub> ) <=2 ppm
Ethyl alcohol <=100 ppm	Isopropyl alcohol <=500 ppm	Methyl alcohol <=500 ppm
Aldehyde <=10 ppm	Heavy metals (Pb) <=0.2 ppm	Subst. reducing KMnO4 <=2 ppm(24h)
Al <=0.5 ppm	B <=0.02 ppm	Ba <=0.1 ppm
Ca <=0.5 ppm	Cd <=0.05 ppm	Co <=0.05 ppm
Cr <=0.02 ppm	Cu <=0.01 ppm	Fe <=0.1 ppm
Mg <=0.1 ppm	Ni <=0.01 ppm	Pb <=0.01 ppm
Sn <=0.1 ppm	Zn <=0.01 ppm	

Code	Size	Packaging
401003	ml 1000	Glass bottle
401002	kg 22	Metallic can

Resistant to permanganate

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Y  
Z

## Acetone - Analytical Grade

## RPE-ACS-ISO-for analysis-Reag. Ph.Eur.-Reag. USP



Assay (GLC) >=99.8 %	Description Clear liquid	Colour (APHA) <=10
Identification (I.R.) Conform	Water solubility Conform	Density at 20° C 0.790 ± 0.792
Refractive index at 20° 1.3581 ± 1.3601	Boiling point 55.8 ± 56.3 ° C	Water (K.F.) <=0.2 %
Residue on evaporation <=10 ppm	Acidity <=0.0003 meq/g	Alcalinity <=0.0006 meq/g
Ethyl alcohol <=100 ppm	Isopropyl alcohol <=500 ppm	Methyl alcohol <=500 ppm
Aldehyde <=10 ppm	Heavy metals (Pb) <=0.2 ppm	Subst. reducing KMnO4 <=2 ppm
Al <=0.5 ppm	B <=0.02 ppm	Ba <=0.1 ppm
Ca <=0.5 ppm	Cd <=0.05 ppm	Co <=0.05 ppm
Cr <=0.02 ppm	Cu <=0.01 ppm	Fe <=0.1 ppm
Mg <=0.02 ppm	Mn <=0.02 ppm	Ni <=0.01 ppm
Pb <=0.01 ppm	Sn <=0.1 ppm	Zn <=0.01 ppm
Related substances (GLC) Conform		

Code	Size	Packaging
400977	ml 100	Bottle
400971	ml 1000	Glass bottle
400974	ml 2500	Glass jar
400972	kg 22	Metallic can
400979	kg 160	Metal drum

For further information on above products, see following product/application section(s)  
Microscopy (p. 58)

## Acetone - Special Grade

## RS-Anhydrous-for analysis



Assay (GC) >= 99.8 %	Refractive index at 20°C 1.357 - 1.361	Water content (K.F.) <= 100 mg/Kg
Non volatile residue <= 10 mg/Kg	Colour <= 10 Hazen	Free acid (as CH3COOH) <= 20 mg/Kg
Diacetyl alcohol <= 500 mg/Kg	Benzene <= 2 mg/Kg	Methanol <= 500 mg/Kg
Ethanol <= 100 mg/Kg	2-Propanol <= 500 mg/Kg	

Code	Size	Packaging
P0051016	ml 1000	Glass bottle

For further information on above products, see following product/application section(s)  
Anhydrous solvents (p. 27)

## RS-ATRASOL-For analysis of volatile traces



Assay (GC) >= 99.8 %	Refractive index at 20°C 1.357 - 1.361	Water content (K.F.) <= 300 mg/Kg
Colour <= 10 Hazen	Free acid (as CH3COOH) <= 20 mg/Kg	2-Propanol <= 500 mg/Kg
Non volatile residue <= 2 mg/Kg	Ethanol <= 100 mg/Kg	Methanol <= 500 mg/Kg
GC ( FID ) - NC Atrasol Conform	GC-ECD.Individual peak (Lindane) <= 2 ng/l	Retention time trichlorobenzene to mirex -
GC-FID. Individ. peak (hexadecane) <= 5 µg/l	Retention time range over toluène -	

Code	Size	Packaging
P0053221	ml 2500	Glass bottle

For further information on above products, see following product/application section(s)  
Special products for environmental analysis (p. 81)

## RS-For HPLC-Isocratic Grade



Assay (GC) >= 99.8 %	Refractive index at 20°C 1.357 - 1.361	Water content (K.F.) <= 500 mg/Kg
Colour <= 10 Hazen	UV transmittance at 330 nm >= 10 %	UV transmittance at 335 nm >= 40 %
UV transmittance at 340 nm >= 75 %	UV transmittance at 345 nm >= 90 %	UV transmittance at 350 nm >= 98 %
Free acid (as CH3COOH) <= 20 mg/Kg	Non volatile residue <= 5 mg/Kg	

Code	Size	Packaging
P0053716	ml 1000	Glass bottle
P0053721	ml 2500	Glass bottle

For further information on above products, see following product/application section(s)  
Chromatography (p. 34)

## RS-For HPLC-Isocratic Grade



Assay (GLC) >=99.8 %	Description Clear colourless liquid	Density at 20° C 0.790 ± 0.792
Refractive index at 20° 1.3581 ± 1.3601	Boiling point 55.8 ± 56.3 ° C	Water (K.F.) <=0.2 %
Residue on evaporation <=5 ppm	Acidity <=0.0005 meq/g	Alcalinity <=0.0002 meq/g
U.V. Transmittance - at 360 nm >=98 %	at 340 nm >=50 %	at 350 nm >=90 %

Code	Size	Packaging
412502	ml 2500	Glass bottle

For further information on above products, see following product/application section(s)  
Chromatography (p. 34)

## Acetone - Special Grade



## RS-For optical spectroscopy

<b>Assay (GLC) &gt;=99.8 %</b>	Description Clear liquid	Colour (APHA) <=10
Density at 20° C 0.790 ± 0.792	Refractive index at 20° 1.3581 ± 1.3601	Boiling point 55.8 ± 56.3 ° C
Water (K.F.) <=0.2 %	Residue on evaporation <=5 ppm	Acidity <=0.0005 meq/g
Alcalinity <=0.0002 meq/g	<b>Fluorescence -</b>	at 365 nm <=2 ppb
<b>U.V. Transmittance -</b>	at 330 nm >=16 %	at 335 nm >=60 %
at 340 nm >=85 %	at 345 nm >=95 %	at 350 nm >=98 %

Code	Size	Packaging
401034	ml 1000	Glass bottle
401032	ml 2500	Glass bottle

Spectrophotometric analysis (1 cm - ref. Water)

For further information on above products, see following product/application section(s)

Solvents for spectroscopy (p. 68)

## RS-For residual pesticides analysis



<b>Assay (GLC) &gt;=99.8 %</b>	Description Clear colourless liquid	Density at 20° C 0.790 ± 0.792
Water (K.F.) <=0.2 %	Residue on evaporation <=2 ppm	GC-ECD (Lindano) <=5 ng/l
GC_NPD (Parathion) <=10 ng/l	GC-FID Conform	

Code	Size	Packaging
401021	ml 1000	Glass bottle
401022	ml 2500	Glass bottle

GC-ECD: &lt; 5 ng/l GC-NPD: &lt; 10 ng/l.

For further information on above products, see following product/application section(s)

Special products for environmental analysis (p. 81)

## RS-MOS For electronic use-ERBATRON



<b>Assay (GLC) &gt;=99.8 %</b>	Description Clear liquid	Colour (APHA) <=10
Water miscibility Conform	Resistivity >=5 Mohm.cm	Density at 20° C 0.790 ± 0.792
Boiling point 55.8 ± 56.3 °	Water (K.F.) <=0.2 %	Residue on evaporation <=5 ppm
Acidity (formic acid) <=15 ppm	Alcalinity (NH3) <=2 ppm	Ethyl alcohol <=100 ppm
Isopropyl alcohol <=500 ppm	Methyl alcohol <=500 ppm	Aldehyde <=10 ppm
Chloride <=0.1 ppm	Phosphate <=0.1 ppm	Heavy metals (Pb) <=0.2 ppm
Sulphate <=0.5 ppm	Subst. reducing KMnO4 <=2 ppm	Ag <=0.02 ppm
Al <=0.05 ppm	As <=0.01 ppm	Au <=0.05 ppm
B <=0.01 ppm	Ba <=0.1 ppm	Be <=0.02 ppm
Bi <=0.02 ppm	Ca <=0.1 ppm	Cd <=0.005 ppm
Co <=0.005 ppm	Cr <=0.01 ppm	Cu <=0.01 ppm
Fe <=0.05 ppm	Ga <=0.02 ppm	In <=0.02 ppm
K <=0.1 ppm	Li <=0.02 ppm	Mg <=0.1 ppm
Mn <=0.01 ppm	Mo <=0.05 ppm	Na <=0.2 ppm
Ni <=0.01 ppm	Pb <=0.01 ppm	Pt <=0.02 ppm
Sb <=0.01 ppm	Sn <=0.02 ppm	Sr <=0.02 ppm
Ti <=0.05 ppm	Tl <=0.05 ppm	V <=0.05 ppm
Zn <=0.01 ppm	Zr <=0.05 ppm	

Code	Size	Packaging
401041	ml 2500	Glass bottle

Minimum order: 48 bottles

## RS-PESTIPUR-for pesticide analysis



<b>Assay (GC) &gt;= 99.8 %</b>	Refractive index at 20°C 1.357 - 1.361	Water content (K.F.) <= 500 mg/Kg
Colour <= 10 Hazen	Free acid (as CH3COOH) <= 20 mg/Kg	Non volatile residue <= 2 mg/Kg
GC-ECD.Individual peak (Lindane) <= 3 ng/l	<b>Retention time trichlorobenzene to mirex -</b>	GC-NPD.Individual peak (Ethylparathion) <= 3 ng/l

Retention time Atrazin to Coumaphos -

Code	Size	Packaging
P0052216	ml 1000	Glass bottle
P0052221	ml 2500	Glass bottle

## RS-PLUS-for residual pesticide analysis



<b>Assay (GLC) &gt;= 99.8 %</b>	Description Clear liquid	Colour <= 10 hazen
Water <= 0.05 %	Not volatile residue <= 5 mg/kg	Free acid (as CH3COOH) <= 20 mg/kg
GC-ECD (Lindane standard) <= 3 ng/l	GC-NPD (Ethylparathion standard) <= 3 ng/l	

Code	Size	Packaging
400991	ml 1000	Glass bottle
400992	ml 2500	Glass bottle

For further information on above products, see following product/application section(s)

Special products for environmental analysis (p. 81)

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Z

## Acetone - Special Grade

## RS-RSE For electronic use-ERBATRON



Assay (GLC) >=99.8 %	Description Clear liquid	Colour (APHA) <=10
Water miscibility Conform	Resistivity >=5 Mohm.cm	Density at 20° C 0.790 ± 0.792
Boiling point 55.8 ± 56.3 °	Water (K.F.) <=0.2 %	Residue on evaporation <=5 ppm
Acidity (formic acid) <=15 ppm	Alcalinity (NH3) <=2 ppm	Ethyl alcohol <=100 ppm
Isopropyl alcohol <=500 ppm	Methyl alcohol <=500 ppm	Aldehyde <=10 ppm
Chloride <=0.1 ppm	Phosphate <=0.1 ppm	Heavy metals (Pb) <=0.2 ppm
Sulphate <=0.5 ppm	Subst. reducing KMnO4 <=2 ppm	Ag <=0.02 ppm
Al <=0.05 ppm	As <=0.01 ppm	Au <=0.05 ppm
B <=0.01 ppm	Ba <=0.1 ppm	Be <=0.02 ppm
Bi <=0.02 ppm	Ca <=0.1 ppm	Cd <=0.005 ppm
Co <=0.005 ppm	Cr <=0.01 ppm	Cu <=0.01 ppm
Fe <=0.05 ppm	Ga <=0.02 ppm	In <=0.02 ppm
K <=0.1 ppm	Li <=0.02 ppm	Mg <=0.1 ppm
Mn <=0.01 ppm	Mo <=0.05 ppm	Na <=0.2 ppm
Ni <=0.01 ppm	Pb <=0.01 ppm	Pt <=0.02 ppm
Sb <=0.01 ppm	Sn <=0.02 ppm	Sr <=0.02 ppm
Ti <=0.05 ppm	Tl <=0.05 ppm	V <=0.05 ppm
Zn <=0.01 ppm	Zr <=0.05 ppm	

Code	Size	Packaging
401051	ml 1000	Glass bottle
401058	ml 2500	Glass bottle
401055	ml 5000	Metallic can
401052	kg 22	Metallic can

## RS-SPECTROSOL-for optical spectroscopy



Assay (GC) >= 99.8 %	Refractive index at 20°C 1.357 - 1.361	Water content (K.F.) <= 500 mg/Kg
Colour <= 10 Hazen	UV transmittance at 330 nm >= 15 %	UV transmittance at 335 nm >= 60 %
UV transmittance at 340 nm >= 85 %	UV transmittance at 345 nm >= 95 %	UV transmittance at 350 nm >= 98 %
Free acid (as CH3COOH) <= 20 mg/Kg	Non volatile residue <= 5 mg/Kg	

Code	Size	Packaging
P0052716	ml 1000	Glass bottle
P0052721	ml 2500	Glass bottle

For further information on above products, see following product/application section(s)

Solvents for spectroscopy (p. 68)

## RS-VSLI For electronic use-ERBATRON



Code	Size	Packaging
527650	ml 2500	Glass bottle
527655	ml 5000	Glass bottle

## Acetone - Pharmaceutical Grade

## RPH-According to pharmacopoeia: Ph.Eur.-NF-BP



Assay (GLC) >=99 %	Description Clear colourless liquid	Appearance of solution Conform Ph.Eur.
Acidity or alkalinity Conform Ph.Eur.	Water-insoluble matter Conform Ph.Eur.	Related substances(GLC) Conform Ph.Eur.
Reducing substances Conform Ph.Eur.	Density at 20° C 0.790 ± 0.793	Water (K.F.) <=3 g/l
Acqua (GLC) <=0.5 %	Residue on evaporation <=40 ppm p/v	Origin (BSE/TSE) Synthesis
Residual solvents (CPMP/ICH/283/95) Conform		

Code	Size	Packaging
301505	ml 1000	Glass bottle
301506	ml 2500	Glass bottle
301502	ml 5000	Metallic can
301504	kg 22	Metal drum
301507	kg 160	Metal drum

## Acetone - Technical Grade

## PS-Pure-for synthesis



Assay (GC) >= 99.8 %	Refractive index at 20°C 1.357 - 1.361	Water content (K.F.) <= 2500 mg/Kg
Non volatile residue <= 15 mg/Kg	Colour <= 10 Hazen	Free acid (as CH3COOH) <= 20 mg/Kg
Diacetyl alcohol <= 500 mg/Kg		

Code	Size	Packaging
P0050222	ml 5000	Plastic drum
P0050241	l 10	Plastic drum
P0050248	l 25	Metal drum
P0050249	l 25	Plastic drum
P0050268	l 200	Metal drum

## Acetone - Technical Grade

## RE-Pure



Assay (GLC) >=99.5 % (GLC)	Description Clear liquid	Colour <=10 APHA
Identity (IR) Positive	Density at 20°C 0.788±0.792	Refractive index at 20°C 1.3601±1.3581
Boiling point 55.7±56.7 °C	Water (K.F.) <=0.3 % m/m	Residue on evaporation <=20 ppm
Water miscibility Complete		

Code	Size	Packaging
508200	ml 1000	Glass bottle
508201	ml 2500	Glass bottle
528203	ml 5000	Plastic drum
528206	l 10	Plastic drum
528201	l 25	Plastic drum
528204	l 200	Metal drum

## Acetone-d6

Acetone-d6 - Acétone-d6 - Acetona-d6

CD<sub>3</sub>COCD<sub>3</sub>

Atomic weight: 64,12  
CAS N: 666-52-4  
EEC N: 211-563-9

## Transport classification

ONU n. 1090  
Transport class: 3  
Packaging group: II



R: 11-36-66-67  
S: 9-16-26

## Acetone-d6 - Special Grade

## RS-For NMR spectroscopy



Code	Size	Packaging	Notes
P5044A	ml 10	Ampoule	Isotopic purity 99,80%
P5045	ml 25	Glass bottle	Isotopic purity 99,80%
P5046	ml 100	Glass bottle	Isotopic purity 99,80%
P5044S	5 x ml 10	Bottle with sept	Isotopic purity 99,80%
P5049	10 x ml 0,75	Ampoule	Isotopic purity 99,80%
P5060	10 x ml 0,6	Ampoule	Isotopic purity 99,96%

For further information on above products, see following product/application section(s)  
NMR Spectroscopy (p. 65)

## Acetonitrile

Acetonitrile - Acétonitrile - Acetonitrilo

CH<sub>3</sub>CN

Atomic weight: 41,053  
CAS N: 75-05-8  
EEC N: 200-835-2

## Transport classification

ONU n. 1648  
Transport class: 3  
Packaging group: II



R: 11-20/21/22-36  
S: 16-36/37

## Acetonitrile - Analytical Grade

## PA-PUREX-for analysis



Assay (GC) >= 99.7 %	Refractive index at 20°C 1.342 - 1.346	Water content (K.F.) <= 500 mg/Kg
Non volatile residue <= 10 mg/Kg	Colour <= 10 Hazen	Free acid (as CH <sub>3</sub> COOH) <= 20 mg/Kg
Clear, colourless liq. appearance Conform	Density d <sub>20/20</sub> 0.78 - 0.785	Iron (Fe) <= 0.5 mg/Kg
Copper (Cu) <= 0.5 mg/kg	Free alkali <= 0.0003 meq/kg	Propionitrile <= 300 mg/Kg

Code	Size	Packaging
P0060540	l 10	Metal tank
P0060568	l 200	Metal drum

## RPE-ACS-for analysis-Reag. Ph.Eur.-Reag. USP



Assay (GLC) >=99.5 %	Description Clear liquid	Density at 20° C 0.781 ± 0.785
Refractive index at 20° 1.3410 ± 1.3450	Boiling point 81.1 ± 82.1 ° C	Water (K.F.) <=0.1 %
Residue on evaporation <=10 ppm	Ca <=0.05 ppm	Cu <=0.05 ppm
Fe <=0.2 ppm	K <=0.05 ppm	Mg <=0.05 ppm
Na <=1 ppm	Pb <=0.05 ppm	Zn <=0.5 ppm
Colour (APHA) <=10	Acidity <=8 µeq/g	Alcalinity <=0.6 µeq/g

Code	Size	Packaging
401183	ml 1000	Glass bottle
401185	ml 2500	Glass bottle
401184	kg 40	Plastic drum

For further information on above products, see following product/application section(s)  
Microscopy (p. 58)

## Acetonitrile - Special Grade

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
M  
N  
O  
P  
Q  
R  
S  
T  
U  
V  
W  
X  
Y  
Z

## Acetonitrile - Special Grade

## RS-ACS-Reag.Ph.Eur.-for HPLC-GOLD-Ultragradient grade



<b>Assay (GLC) &gt;= 99.9 %</b>	Description Clear liquid	Colour (APHA) <= 10
Distillation range 80.5 + 82.5 °C	Water (K.F.) <= 100 ppm	Residue on evaporation <= 2 ppm
Acidity <= 0.0005 meq/g	Alcalinity <= 0.0002 meq/g	<b>Fluorescence</b>
at 254 nm <= 1 ppb	at 365 nm <= 0.5 ppb	at 450 nm <= 0.5 ppb
<b>Transmittance</b>	at 195 nm >= 80 %	a 197 nm >= 85 %
at 210 nm >= 95 %	at 200 nm >= 92 %	at 220 nm >= 98.5 %
<b>Absorbance</b>	at 195 nm <= 0.1 A.U.	at 210 nm <= 0.02 A.U.
at 220 nm <= 0.007 A.U.	Density at 20°C 0.781 + 0.785	Refractive index at 20°C 1.3420 + 1.3440
<b>Functionality for HPLC</b>	at 210 nm <= 2 mA.U.	at 254 nm <= 0.5 mA.U.
drift at 210 nm <= 12 mA.U.	HPLC Gradient Passed test	Miscb. with Acetone Conform
Water miscibility Conform	Miscibility in ether Conform	Miscibility in methanol Conform
UV cut off <= 190 nm		

Code	Size	Packaging
412371	ml 1000	Glass bottle
412372	ml 2500	Glass bottle
412374	ml 4000	Glass bottle
412375	ml 5000	Aluminium can

For further information on above products, see following product/application section(s)  
Chromatography (p. 34)

## RS-ACS-Reag.Ph.Eur.-for HPLC-PLUS-Gradient grade



<b>Assay (GLC) &gt;= 99.9 %</b>	Description Clear liquid	Density at 20° C 0.781 + 0.785
Refractive index at 20° 1.3420 + 1.3440	Water (K.F.) <= 100 ppm	Residue on evaporation <= 2 ppm
Acidity <= 0.0008 meq/g	Alcalinity <= 0.0002 meq/g	<b>Fluorescence -</b>
at 254 nm <= 1 ppb	at 365 nm <= 0.5 ppb	at 450 nm <= 0.5 ppb
<b>U.V. Transmittance -</b>	at 195 nm >= 79 %	at 200 nm >= 90 %
at 210 nm >= 95 %	at 220 nm >= 98 %	Colour (APHA) <= 10
Water miscibility Conform	Miscb. with Acetone Conform	Miscibility in ether Conform
Miscibility in methanol Conform	Litmus paper test Conform	Boiling point 81.1 + 82.1 °C
Distillation range 80 + 82 °C		

Code	Size	Packaging
412391	ml 1000	Glass bottle
412392	ml 2500	Glass bottle

For further information on above products, see following product/application section(s)  
Chromatography (p. 34)

## RS-Anhydrous-for analysis



<b>Assay (GC) &gt;= 99.7 %</b>	Refractive index at 20°C 1.342 - 1.346	Water content (K.F.) <= 100 mg/Kg
Water content (K.F.) <= 50 mg/Kg	Non volatile residue <= 10 mg/Kg	Colour <= 10 Hazen
Free acid (as CH <sub>3</sub> COOH) <= 20 mg/Kg	Clear, colourless liq. appearance Conform	Density d <sub>20/20</sub> 0.78 - 0.785
Iron (Fe) <= 0.5 mg/Kg	Copper (Cu) <= 0.5 mg/kg	Free alkali <= 0.0003 meq/g
Propionitrile <= 300 mg/Kg		

Code	Size	Packaging
P00610S10	ml 200	Glass bottle
P00610T10	ml 200	Bottle with sept with septum and molecular sieves
P0061016	ml 1000	Glass bottle
P00610S16	ml 1000	Glass bottle
P0061021	ml 2500	Glass bottle
P00610S21	ml 2500	Glass bottle

For further information on above products, see following product/application section(s)  
Anhydrous solvents (p. 27)

## RS-For HPLC 230



<b>Assay (GC) &gt;= 99.8 %</b>	Refractive index at 20°C 1.342 - 1.346	Water content (K.F.) <= 300 mg/Kg
Colour <= 10 Hazen	UV transmittance at 230 nm >= 80 %	UV transmittance at 250 nm >= 98 %
Free acid (as CH <sub>3</sub> COOH) <= 20 mg/Kg	Non volatile residue <= 5 mg/Kg	

Code	Size	Packaging
P00637S16	ml 1000	Glass bottle
P00637S21	ml 2500	Glass bottle

## RS-For HPLC/NMR



<b>Assay (GC) &gt;= 99.9 %</b>	Refractive index at 20°C 1.342 - 1.346	Water content (K.F.) <= 200 mg/Kg
Colour <= 10 Hazen	Propionitrile <= 10 mg/Kg	UV transmittance at 197 nm >= 75 %
UV transmittance at 200 nm >= 80 %	UV transmittance at 210 nm >= 90 %	UV transmittance at 220 nm >= 94 %
UV transmittance at 230 nm >= 97 %	Free acid (as CH <sub>3</sub> COOH) <= 10 mg/Kg	Non volatile residue <= 5 mg/Kg

Code	Size	Packaging
P00637R16	ml 1000	Glass bottle
P00637R21	ml 2500	Glass bottle



## Acetonitrile - Special Grade

## RS-For HPLC-PLUS-Gradient Grade



Assay (GC) >= 99.9 %	Refractive index at 20°C 1.342 - 1.346	Water content (K.F.) <= 300 mg/Kg
Colour <= 10 Hazen	Gradient baseline drift at 210 nm <= 18 mAU	UV transmittance at 197 nm >= 82 %
UV transmittance at 200 nm >= 90 %	UV transmittance at 210 nm >= 94 %	UV transmittance at 220 nm >= 96 %
UV transmittance at 230 nm >= 98 %	HPLC gradient (peak) at 254 nm <= 0.8 mAU	Clear, colourless liq. appearance Conform
Non volatile residue <= 5 mg/Kg	HPLC gradient (peak) at 210 nm <= 5 mAU	Free acid (as CH <sub>3</sub> COOH) <= 20 mg/Kg
Fluorescence (quinine) at 254 nm <= 1 ppb		

Code	Size	Packaging
P00637G16	ml 1000	Glass bottle
P00637G21	ml 2500	Glass bottle
P00637G47	ml 2500	Glass bottle PVC coated
P00637G31	ml 5000	Aluminium can

For further information on above products, see following product/application section(s)

Chromatography (p. 34)

## RS-For HPLC-Isocratic Grade



Assay (GC) >= 99.9 %	Refractive index at 20°C 1.342 - 1.346	Water content (K.F.) <= 300 mg/Kg
Colour <= 10 Hazen	UV transmittance at 197 nm >= 82 %	UV transmittance at 200 nm >= 85 %
UV transmittance at 210 nm >= 90 %	UV transmittance at 220 nm >= 94 %	UV transmittance at 230 nm >= 97 %
UV transmittance at 240 nm >= 98 %	Free acid (as CH <sub>3</sub> COOH) <= 20 mg/Kg	Non volatile residue <= 5 mg/Kg
Fluorescence (quinine) at 254 nm <= 1 ppb		

Code	Size	Packaging
P0063716	ml 1000	Glass bottle
P0063721	ml 2500	Glass bottle
P006S02/47	ml 2500	Glass bottle PVC coated

For further information on above products, see following product/application section(s)

Chromatography (p. 34)

## RS-For HPLC-Isocratic Grade



Assay (GLC) >=99.9 %	Description Clear colourless liquid	Density at 20° C 0.781 ± 0.785
Refractive index at 20° 1.3420 ± 1.3440	Boiling point 81.1 ± 82.1 ° C	Acidity or alkalinity <=0.0008 meq/g
Water (K.F.) <=200 ppm	Residue on evaporation <=2 ppm	<b>U.V. Transmittance -</b>
at 200 nm >=79 %	at 205 nm >=89 %	at 210 nm >=92 %
at 220 nm >=94 %	at 230 nm >=98 %	at 240 nm >=99 %
at 250 nm >=99 %		

Code	Size	Packaging
412411	ml 1000	Glass bottle
412412	ml 2500	Glass bottle
412413	l 25	Metal drum

For further information on above products, see following product/application section(s)

Chromatography (p. 34)

## RS-For HPLC-LC/MS



Code	Size	Packaging
412341	ml 1000	Glass bottle
412342	ml 2500	Glass bottle

For further information on above products, see following product/application section(s)

Chromatography (p. 34)

## RS-For HPLC-Ultragradient Grade



Assay (GC) >= 99.9 %	Refractive index at 20°C 1.342 - 1.346	Water content (K.F.) <= 100 mg/Kg
Colour <= 10 Hazen	HPLC gradient test Conform	Gradient baseline drift at 210 nm <= 12 mAU
UV transmittance at 197 nm >= 85 %	UV transmittance at 200 nm >= 92 %	UV transmittance at 210 nm >= 95 %
UV transmittance at 220 nm >= 98 %	UV transmittance at 230 nm >= 98 %	HPLC gradient (peak) at 254 nm <= 0.5 mAU
UV Cut off <= 190 nm	Non volatile residue <= 2 mg/Kg	Clear, colourless liq. appearance Conform
HPLC gradient (peak) at 210 nm <= 2 mAU	Free acid (as CH <sub>3</sub> COOH) <= 20 mg/Kg	Fluorescence (quinine) at 254 nm <= 1 ppb

Code	Size	Packaging
P00637U16	ml 1000	Glass bottle
P00637U21	ml 2500	Glass bottle
P00637U31	ml 5000	Aluminium can

For further information on above products, see following product/application section(s)

Chromatography (p. 34)

## RS-For optical spectroscopy



Assay (GLC) >=99.9 %	Description Clear colourless liquid	Density at 20° C 0.781 ± 0.785
Refractive index at 20° 1.3410 ± 1.3450	Boiling point 81.1 ± 82.1 ° C	Acidity or alkalinity <=0.0008 meq/g
Water (K.F.) <=200 ppm	Residue on evaporation <=2 ppm	<b>Fluorescence -</b>
at 254 nm <=2 ppb	at 365 nm <=2 ppb	<b>U.V. Transmittance -</b>
at 200 nm >=79 %	at 205 nm >=89 %	at 210 nm >=92 %
at 220 nm >=94 %	at 230 nm >=98 %	at 240 nm >=99 %
at 250 nm >=99 %		

Code	Size	Packaging
401216	ml 1000	Glass bottle
401212	ml 2500	Glass bottle

Spectrophotometric analysis (1 cm - ref. Water)

For further information on above products, see following product/application section(s)

Solvents for spectroscopy (p. 68)

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
M  
N  
O  
P  
Q  
R  
S  
T  
U  
V  
W  
X  
Y  
Z

## Acetonitrile - Special Grade

## RS-For peptide synthesis

sds

Assay (GC) >= 99.9 %	Refractive index at 20°C 1.342 - 1.346	Water content (K.F.) <= 30 mg/Kg
Colour <= 10 Hazen	Non volatile residue <= 5 mg/Kg	
<b>Code</b>	<b>Size</b>	<b>Packaging</b>
P0063510	ml 200	Glass bottle
P0063516	ml 1000	Glass bottle
P0063521	ml 2500	Glass bottle

## RS-For preparative HPLC

sds

Assay (GC) >= 99.9 %	Refractive index at 20°C 1.342 - 1.346	Water content (K.F.) <= 300 mg/Kg
Colour <= 10 Hazen	UV transmittance at 230 nm >= 50 %	UV transmittance at 250 nm >= 98 %
Free acid (as CH <sub>3</sub> COOH) <= 20 mg/Kg	Non volatile residue <= 5 mg/Kg	
<b>Code</b>	<b>Size</b>	<b>Packaging</b>
P00637P21	ml 2500	Glass bottle
P00637P48	l 25	Metal drum

For further information on above products, see following product/application section(s)  
Chromatography (p. 34)

## RS-For residual pesticides analysis

CARLO ERBA  
Quality since 1848

Assay (GLC) >= 99.8 %	Description Clear colourless liquid	Density at 20° C 0.781 + 0.785
Water (K.F.) <= 400 ppm	Residue on evaporation <= 2 ppm	GC-ECD (Lindano) <= 5 ng/l
GC_NPD (Parathion) <= 10 ng/l	GC-FID Conform	
<b>Code</b>	<b>Size</b>	<b>Packaging</b>
401201	ml 1000	Glass bottle

GC-ECD: < 5 pg/ml . GC-NPD: < 10 pg/ml

For further information on above products, see following product/application section(s)  
Special products for environmental analysis (p. 81)

## RS-PESTIPUR-for pesticide analysis

sds

Assay (GC) >= 99.9 %	Refractive index at 20°C 1.342 - 1.346	Water content (K.F.) <= 300 mg/Kg
Colour <= 10 Hazen	Free acid (as CH <sub>3</sub> COOH) <= 20 mg/Kg	Non volatile residue <= 5 mg/Kg
GC-ECD.Individual peak (Lindane) <= 3 ng/l	Retention time trichlorobenzene to mirex -	
<b>Code</b>	<b>Size</b>	<b>Packaging</b>
P0062216	ml 1000	Glass bottle
P0062221	ml 2500	Glass bottle

## RS-PLUS-for residual pesticide analysis

CARLO ERBA  
Quality since 1848

Assay (GLC) >= 99.9 %	Description Clear liquid	Colour <= 10 hazen
Water <= 0.03 %	Acidity (acetic acid) <= 20 ppm	Not volatile residue <= 5 ppm
GC-ECD (Lindano) <= 3 ng/l		
<b>Code</b>	<b>Size</b>	<b>Packaging</b>
401241	ml 1000	Fibreboard box
401242	ml 2500	Glass bottle

For further information on above products, see following product/application section(s)  
Special products for environmental analysis (p. 81)

## RS-SPECTROSOL-for optical spectroscopy

sds

Assay (GC) >= 99.9 %	Refractive index at 20°C 1.342 - 1.346	Water content (K.F.) <= 300 mg/Kg
Colour <= 10 Hazen	UV transmittance at 200 nm >= 90 %	UV transmittance at 210 nm >= 94 %
UV transmittance at 220 nm >= 96 %	UV transmittance at 230 nm >= 98 %	Free acid (as CH <sub>3</sub> COOH) <= 20 mg/Kg
Non volatile residue <= 5 mg/Kg	Fluorescence (quinine) at 254 nm <= 1 ppb	
<b>Code</b>	<b>Size</b>	<b>Packaging</b>
P0062716	ml 1000	Glass bottle
P0062721	ml 2500	Glass bottle

For further information on above products, see following product/application section(s)  
Solvents for spectroscopy (p. 68)

## Acetonitrile - Technical Grade

## PS-Pure-for synthesis

sds

Assay (GC) >= 99.5 %	Refractive index at 20°C 1.342 - 1.346	Water content (K.F.) <= 1000 mg/Kg
Non volatile residue <= 30 mg/Kg	Colour <= 10 Hazen	Free acid (as CH <sub>3</sub> COOH) <= 20 mg/Kg
Clear, colourless liq. appearance Conform	Density d <sub>20/20</sub> 0.78 - 0.785	
<b>Code</b>	<b>Size</b>	<b>Packaging</b>
P0060228	ml 5000	Plastic drum
P0060240	l 10	Metal tank
P0060248	l 25	Metal drum
P0060268	l 200	Metal drum

## Acetonitrile-d3

Acetonitrile-d3 - Acétonitrile-d3 - Acetonitrilo-d3

CD<sub>3</sub>CNAtomic weight: 44,080  
CAS N: 2206-26-0  
EEC N: 200-835-2

## Transport classification

ONU n. 1648  
Transport class: 3  
Packaging group: IIR: 11-20/21/22-36  
S: 16-36/37

## Acetonitrile-d3 - Special Grade

## RS-For NMR spectroscopy

sds

Code	Size	Packaging	Notes
P5073A	ml 5	Ampoule	Isotopic purity 99,80%
P5070	2 x ml 0,6	Ampoule	Isotopic purity 99,96%
P5079	10 x ml 0,75	Ampoule	Isotopic purity 99,80%

For further information on above products, see following product/application section(s)  
NMR Spectroscopy (p. 65)

## Acetonylacetone

Acetonilacetone - Acétonylacétone - Acetonilacetona

CH<sub>3</sub>COCH<sub>2</sub>CH<sub>2</sub>COCH<sub>3</sub>Atomic weight: 114,14  
CAS N: 110-13-4  
EEC N: 203-738-3R: 37/38  
S: 23

## Acetonylacetone - Technical Grade

## RE-Pure

CARLO ERBA  
Qualità sin dal 1889Assay (GLC) >=97 % Description Yellow clear liquid Density at 20° C 0.969 + 0.979  
Refractive index at 20° 1.4232 + 1.4272 Boiling point 187.3 + 188.8 ° C

Code	Size	Packaging
301531	ml 100	Glass bottle

## Acetophenone

Acetofenone - Acétophénone - Acetofenona

C<sub>8</sub>H<sub>8</sub>COCH<sub>3</sub>Atomic weight: 120,15  
CAS N: 98-86-2  
EEC N: 202-708-7R: 22-36  
S: 26

## Acetophenone - Technical Grade

## RE-Pure

CARLO ERBA  
Qualità sin dal 1889Assay (GLC) >=99.0 % Description Yellow colourless liquid Density at 20° C 1.018 + 1.038  
Refractive index at 20° 1.5283 + 1.5383 Boiling point 200.5 + 203.5 ° C

Code	Size	Packaging
301251	ml 1000	Glass bottle
301253	kg 28	Metallic can

## Acetylacetone

2,4-Pentandione - Acetylacétone - 2,4-Pentandiona

CH<sub>3</sub>COCH<sub>2</sub>COCH<sub>3</sub>Atomic weight: 100,11  
CAS N: 123-54-6  
EEC N: 204-634-0

## Transport classification

ONU n. 2310  
Transport class: 3  
Secondary risk: 6.1  
Packaging group: IIIR: 10-22  
S: 21-23-24/25

## Acetylacetone - Analytical Grade

## RPE-For analysis

CARLO ERBA  
Qualità sin dal 1889Assay (GLC) >=99.5 % Description Clear liquid Identification (I.R.) Conform  
Water miscibility Conform Density at 20° C 0.971 + 0.981 Refractive index at 20° 1.4480 + 1.4520  
Water (K.F.) <=0.1 % Residue on evaporation <=100 ppm

Code	Size	Packaging
400305	ml 100	Glass bottle
400307	ml 1000	Glass bottle

## Acetyl chloride

Acetile cloruro - Acétyle chlorure - Acetilo cloruro

CH<sub>3</sub>COClAtomic weight: 78,499  
CAS N: 75-36-5  
EEC N: 200-865-6

## Transport classification

ONU n. 1717  
Transport class: 3  
Secondary risk: 8  
Packaging group: IIR: 11-14-34  
S: 9-16-26-45

## Acetyl chloride - Analytical Grade

A

## Acetyl chloride - Analytical Grade



## RPE-For analysis

Assay (ex acetylation) >=99 %	Description Clear colourless liquid	Chloroform miscibility complete
Benzene miscibility complete	Phosphorous compounds Conform	Density at 20° C 1.104 + 1.112
Refractive index at 20° 1.3890 + 1.3910	Boiling point 51 + 52 ° C	Residue on evaporation <=20 ppm
Total phosphorus <=2 ppm	Water-insoluble matter <=25 ppm	Heavy metals (Pb) <=2 ppm
Cholesterol sensitivity >=50 µg/ml	Fe <=2 ppm	

Code	Size	Packaging
400621	ml 100	Glass bottle
400623	ml 1000	Glass bottle
400625	kg 24	Glass-metal/polythene contain.

B

C

D

E

## Acetyl chloride - Technical Grade



## RE-Pure

Assay (GLC) >= 99 %	Description Clear liquid	Colour (APHA) <= 10
Refractive index at 20°C 1.3876 + 1.3896	Residue on evaporation <= 1 %	

Code	Size	Packaging
300753	ml 1000	Glass bottle

F

G

## Acetylcholine bromide

*Acetilcolina bromuro - Acétylcholine bromure - Acetilcolina bromuro***(CH<sub>3</sub>)<sub>3</sub>N(Br)CH<sub>2</sub>CH<sub>2</sub>COCH<sub>3</sub>**

Atomic weight: 226,12

CAS N: 66-23-9

EEC N: 200-622-4

## Acetylcholine bromide - Analytical Grade



## RPE-For analysis

Assay (non-aqueous medium) 99.5 + 100.0 %	Assay (argentimetric) 99.5 + 100.0 %	Description White crystals
Alcohol solubility Conform	pH 10% at 25° C 3.6 + 5.6	Loss on drying <=0.5 %
Ammonium <=20 ppm	Water-insoluble matter <=100 ppm	Heavy metals (Pb) <=10 ppm
Residue on ignition <=500 ppm	Sulphate <=500 ppm	As <=1 ppm
Fe <=5 ppm		

Code	Size	Packaging
400553	g 50	Glass jar

L

M

## N-Acetylcysteine

*N-Acetil-L-cisteina - n-Acétylcystéine - N-Acetil-L-cisteina***HSCH<sub>2</sub>CH(NHCOCH<sub>3</sub>)COOH**

Atomic weight: 163,20

CAS N: 616-91-1

EEC N: 210-498-3

## N-Acetylcysteine - Analytical Grade



## RPE-For analysis

Assay (acidimetric) > 97.5 %	Description White crystals	Ash < 0.5 %
------------------------------	----------------------------	-------------

Code	Size	Packaging
400522	g 100	Glass jar

For biochemistry

Q

R

## N-Acetylimidazole

*N-Acetilimidazolo - n-Acétylimidazole - N-Acetilimidazol***CH<sub>3</sub>NCH<sub>2</sub>CHNCOCH<sub>3</sub>**

Atomic weight: 110,12

CAS N: 2466-76-4

EEC N: 219-577-7

## N-Acetylimidazole - Analytical Grade



## RPE-For analysis

Assay (non-aqueous medium) 99 + 100 %	Description White crystalline powder	Melting point 100 + 102 ° C
Residue on ignition <=0.1 %	Fe <=10 ppm	

Code	Size	Packaging
400713	g 25	Glass jar

Derivatizer for chromatography

For further information on above products, see following product/application section(s)

Chromatography (p. 34)

W

X

Y

Z

## p-Acetylphenetidine

*p-Acetilfenetidina - p-Acétylphénétidine - Acetilfenetidina*

**C<sub>12</sub>H<sub>16</sub>OC<sub>2</sub>H<sub>5</sub>NHCOCH<sub>3</sub>**  
 Atomic weight: 179,22  
 CAS N: 62-44-2  
 EEC N: 200-533-0



R: 40-20/21/22  
 S: 9-24/25

A

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C

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## p-Acetylphenetidine - Technical Grade

## RE-Pure



Assay (HPLC) &gt; 96.0 %

Description White crystalline powder

Melting point 133 ± 138 ° C

Code	Size	Packaging
300857	g 1000	Plastic jar

## Acetyl-phenyl-hydrazine

*Acetilfenilidrazina - Acétylphénylhydrazine - Acetilfenilhidracina*

**C<sub>12</sub>H<sub>16</sub>NHNHCOCH<sub>3</sub>**  
 Atomic weight: 150,18  
 CAS N: 114-83-0  
 EEC N: 204-055-3



R: 20/21/22

## Acetyl-phenyl-hydrazine - Analytical Grade

## RPE-For analysis



Assay &gt;= 97.5 %

Description White crystalline powder

Melting point 128 ± 132 ° C

Code	Size	Packaging
400672	g 25	Glass jar

## Acetylsalicylic acid

*Acido acetilsalicílico - Acide acétylsalicylique - Acide acetilsalicylico*

**C<sub>9</sub>H<sub>8</sub>COOC<sub>2</sub>H<sub>5</sub>COOH**  
 Atomic weight: 180,15  
 CAS N: 50-78-2  
 EEC N: 200-064-1



R: 20/21/22-37  
 S: 7-22

## Acetylsalicylic acid - Pharmaceutical Grade

## RPH-According to pharmacopoeia: Ph.Eur.-FU-Ph.Franc.-BP-DAB



Assay (acidimetric) 99.5 ± 101.0 % s.s.

Description White crystalline powder

Appearance of solution Conform Ph.Eur.

Related substances (HPLC) Conform Ph.Eur.

Loss on drying in vacuo &lt;=0.5 %

Sulphated ash &lt;=0.1 %

Heavy metals (Pb) &lt;=20 ppm

Origin (BSE/TSE) Synthesis

Residual solvents (CPMP/ICH/283/95) Conform

Code	Size	Packaging
302057	g 1000	Plastic jar
302057	g 1000	Plastic jar
302052	g 5000	Plastic jar
302052	g 5000	Plastic jar

## trans-Aconitic acid

*Acido trans-aconítico - Acide trans-aconique - trans-Acido aconítico*

**HO<sub>2</sub>CCH<sub>2</sub>C(CO<sub>2</sub>H)=CHCO<sub>2</sub>H**  
 Atomic weight: 174,110  
 CAS N: 4023-65-8  
 EEC N: 223-688-6

## trans-Aconitic acid - Analytical Grade

## RPE-For analysis



Assay 98 + 100 %

Description White powder

Code	Size	Packaging
401641	g 100	Glass jar

## Acridine orange

*Arancio acridina - Orange acridine - Arananjado de acridina*

**C<sub>17</sub>H<sub>12</sub>ClN<sub>3</sub>.nZnCl<sub>2</sub>**  
 Atomic weight: 301,82 + N136,28  
 CAS N: 65-61-2  
 EEC N: 200-614-0

Transport classification  
 ONU n. 3143  
 Transport class: 6.1  
 Packaging group: III



R: 20/21/22-40  
 S: 36-22

## Acridine orange - Special Grade

A

## Acridine orange - Special Grade

## RS-For microscopy-C.I. 46005



Description Orange powder

Code	Size	Packaging
423461	g 25	Plastic jar

Stain for Microscopy (fluorescence).

For further information on above products, see following product/application section(s)  
Microscopy (p. 58)

B

C

D

## ADF Solution

Soluzione ADF - Solution ADF - Solución ADF

Transport classification  
ONU n. 3264  
Transport class: 8  
Packaging group: III



R: 36/38-52/53  
S: 26-39-61

E

F

## ADF Solution - Analytical Grade

## RPE-For analysis



Density at 20°C 1.020 + 1.040

Code	Size	Packaging
526625	ml 2500	Glass bottle

Composition: Trimethylcetylammonium bromide: 20 g Sulphuric acid 1N: QSP 1 l

For further information on above products, see following product/application section(s)  
Agriculture and food sector analyses (p. 25)

H

I

## Adipic acid

Acido adipico - Acide adipique - Acido adipico

HOOC(CH<sub>2</sub>)<sub>4</sub>COOH  
Atomic weight: 146,14  
CAS N: 124-04-9  
EEC N: 204-673-3



R: 36

J

K

## Adipic acid - Analytical Grade

## RPE-For analysis



Assay (acidimetric) &gt;= 99 %

Description White crystalline powder

Solution colour &lt;= 5 APHA

Melting point 151 + 153 °C

Water &lt;= 0.2 %

Residue on ignition &lt;= 0.0002 %

HNO<sub>3</sub> <= 4 ppm

Code	Size	Packaging
401785	g 250	Plastic jar
401787	g 2500	Plastic jar

M

N

## Agar fibers

Agar-Agar fill - Agar-Agar en fils - Agar-Agar en fils

(C<sub>12</sub>H<sub>18</sub>O<sub>5</sub>)<sub>n</sub>  
CAS N: 9002-18-0  
EEC N: 232-658-2

## Agar fibers - Analytical Grade

## RPE-For analysis



Description White-hazel fibers

Chloride &lt;= 100 ppm

Proteins &lt;= 1.5 %

Loss on drying &lt;= 22.0 %

Not soluble matter &lt;= 2.0 %

Viscosity 10 + 30 cps

Code	Size	Packaging
412361	g 100	Carton box

Low content of chlorides.

R

S

T

## Agar fibers - Special Grade

## RS-For microbiology



Description White-hazel fibers

Loss on drying &lt;= 22.0 %

Proteins &lt;= 1.5 %

Not soluble matter &lt;= 2.0 %

Viscosity 10 + 30 cps

Code	Size	Packaging
412354	g 100	Carton box
412357	g 1000	Carton box

U

V

W

## DL-α-Alanine

DL-a-Alanina - DL-a-Alanine - DL-alpha-Alanina

CH<sub>3</sub>CH(NH<sub>2</sub>)COOH  
Atomic weight: 89,095  
CAS N: 302-72-7  
EEC N: 206-126-4

## DL-α-Alanine - Analytical Grade

X

Y

Z

DL- $\alpha$ -Alanine - Analytical Grade

## RPE-For analysis

Assay (non-aqueous medium) $\geq 99$ %	Description White crystal. powder	Specific optical rotation $-0 \pm +0^\circ$
Boiling point $284.0 \pm 290.0^\circ\text{C}$	Loss on drying $\leq 0.1$ %	Ammonium $\leq 100$ ppm
Chloride $\leq 20$ ppm	Phosphate $\leq 20$ ppm	Water-insoluble matter $\leq 100$ ppm
Heavy metals (Pb) $\leq 5$ ppm	Residue on ignition $\leq 500$ ppm	Sulphate $\leq 50$ ppm
Fe $\leq 20$ ppm		

Code	Size	Packaging
413576	g 500	Plastic jar

 $\beta$ -Alanine *$\beta$ -Alanina -  $\beta$ -Alanine -  $\beta$ -Alanina*

$\text{NH}_2\text{CH}_2\text{CH}_2\text{COOH}$   
 Atomic weight: 89,095  
 CAS N: 107-95-9  
 EEC N: 203-536-5

 $\beta$ -Alanine - Analytical Grade

## RPE-For analysis

Assay (non-aqueous medium) $99.0 \pm 101.0$ %	Description White crystalline powder	Loss on drying $\leq 0.2$ %
Ammonium $\leq 200$ ppm	Chloride $\leq 400$ ppm	Heavy metals (Pb) $\leq 10$ ppm
Residue on ignition $\leq 0.2$ %	Sulphate $\leq 480$ ppm	Fe $\leq 30$ ppm

Code	Size	Packaging
413603	g 50	Glass jar

## Albumin bovine frac. V

*Albumina bovina frazione V liofilizzata - Albumine bovine fraction V liophilisée - Albúmina bovina fracción V liofilizada*

CAS N: 9048-46-8  
 EEC N: 232-936-2

## Albumin bovine frac. V - Special Grade



## RS-For biochemistry

Description Yellowish flakes	Water $\leq 5$ %	Chloride $\leq 0.15$ %
Phosphorus $\leq 20$ ppm	Heavy metals (Pb) $\leq 30$ ppm	Ca $\leq 200$ ppm
Fe $\leq 10$ ppm	Li $\leq 3$ ppm	Mg $\leq 30$ ppm
K $\leq 60$ ppm	Na $\leq 0.5$ %	Albumin $\geq 96$ %

Code	Size	Packaging
413661	g 1000	Plastic jar
413662	g 5000	Plastic jar

Keep at  $4^\circ\text{C}$ 

## Albumin from eggs powder

*Albumina d'uovo polvere - Albumine d'oeuf poudre - Albúmina de huevo polvo*

CAS N: 9006-59-1  
 EEC N: 232-692-7

## Albumin from eggs powder - Technical Grade



## RE-Pure

Description White powder	pH $6.0 \pm 8.0$	Water $\leq 8.0$ %
--------------------------	------------------	--------------------

Code	Size	Packaging
413671	g 1000	Plastic jar
413672	g 5000	Plastic jar

## Albumin from eggs, dried

*Albumina d'uovo secca - Albumine d'oeuf sèche - Albúmina de huevo desecada*

CAS N: 9006-59-1  
 EEC N: 232-692-7

## Albumin from eggs, dried - Special Grade



## RS-For biochemistry

Description White powder

Code	Size	Packaging
413654	g 100	Plastic jar
413656	g 500	Plastic jar

A

## Alcian Blue 8GS 1%

Blu Alcian 8GS 1% - Bleu alcian 8GS 1% - Azul de alcian 8GS 1%

**C<sub>22</sub>H<sub>14</sub>CuN<sub>4</sub>Na<sub>2</sub>O<sub>8</sub>S<sub>2</sub>**  
 Atomic weight: 780,170  
 CAS N: 75881-23-1  
 EEC N: 278-333-8

Transport classification  
 ONU n. 3143  
 Transport class: 6.1, 25°C



R: 20/21

B

C

## Alcian Blue 8GS 1% - Special Grade

## RS-For microscopy



Code	Size	Packaging
428551	ml 250	Glass bottle

For further information on above products, see following product/application section(s)  
 Microscopy (p. 58)

D

E

## Alcian blue 8GX

Blu alcian 8GX - Bleu alcian 8GX - Azul de alcian 8GX

**C<sub>22</sub>H<sub>14</sub>N<sub>4</sub>CuS<sub>2</sub>Cl<sub>2</sub>**  
 CAS N: 75881-23-1  
 EEC N: 278-333-8

R: 20/21

F

G

## Alcian blue 8GX - Special Grade

## RS-For microscopy-C.I. 74240



Description Violet crystalline powder

Code	Size	Packaging
428561	g 25	Glass jar

Stain for histochemistry.

For further information on above products, see following product/application section(s)  
 Microscopy (p. 58)

I

J

K

## Alcohol-ether mixture

Miscela alcoole-etera - Mélange alcool/ether - Mezcla alcohol-éter

Transport classification  
 ONU n. 1993  
 Transport class: 3  
 Packaging group: I

R: 12-19  
S: 7/9-16-29-33

L

M

## Alcohol-ether mixture - Analytical Grade

## RPE-For analysis



Description Clear colourless liquid Density at 20° C 0.740 ± 0.750

Code	Size	Packaging
463251	ml 1000	Bottle
463255	ml 2500	Bottle

N

O

P

## Alginate acid

Acido alginico - Acide alginique - Acido alginico

**(C<sub>6</sub>H<sub>7</sub>O<sub>9</sub>)<sub>n</sub>**  
 Atomic weight: (17612)N  
 CAS N: 9005-32-7  
 EEC N: 232-680-1

## Alginate acid - Technical Grade

## RE-Pure



Description Polvere bianca, giallog. Loss on drying &lt;=10 % Residue on ignition &lt;=3 %

Code	Size	Packaging
302041	g 100	Glass jar

S

T

U

## Alizarin

Alizarina - Alizarine - Alizarina

**C<sub>14</sub>H<sub>8</sub>O<sub>4</sub>**  
 Atomic weight: 240,2  
 CAS N: 72-48-0  
 EEC N: 200-782-5

## Alizarin - Analytical Grade

## RPE-For analysis-C.I. 58000



Assay &gt;=96.0 % Description Orange red powder Loss on drying &lt;=2 %

Alluminium sensitivity &gt;=0.1 µg/ml

Code	Size	Packaging
415892	g 25	Glass jar

Stain for Microscopy. Indicator (pH 5,8+7,2-11,0+13,0).

X

Y

Z



## Alizarin red

*Rosso Alizarina - Rouge Alizarine - Rojo Alizarina*

**C<sub>14</sub>H<sub>8</sub>NaO<sub>7</sub>S**  
 Atomic weight: 342,26  
 CAS N: 130-22-3  
 EEC N: 204-981-8



R: 20/21/22

## Alizarin red - Analytical Grade

## RPE-For analysis-C.I. 58005



Description Brown orange powder      Colour change Yellow violet      pH range 5.0 - 6.6

Code	Size	Packaging
416002	g 25	Glass jar

For further information on above products, see following product/application section(s)  
 Indicators (p. 50)

## Alizarin saturated solution in ethanol

*Alizarina soluzione satura in alcolico etilico - Alizarine en solution saturée dans l'éthanol - Alizarina solución saturada en alcohol etílico*

**C<sub>14</sub>H<sub>8</sub>O<sub>4</sub>**  
 CAS N: 72-48-0  
 EEC N: 200-782-5

Transport classification  
 ONU n. 1993  
 Transport class: 3  
 Packaging group: II

R: 11  
S: 7-16

## Alizarin saturated solution in ethanol - Analytical Grade

## RPE-For analysis



Description Orange brown liquid

Code	Size	Packaging
415932	ml 250	Glass bottle

Complexometry indicator

## Alizarin yellow

*Giallo alizarina R - Jaune d'alizarine - Amarillo de alizarina*

**C<sub>15</sub>H<sub>8</sub>NaO<sub>6</sub>**  
 Atomic weight: 287,23  
 CAS N: 2243-76-7  
 EEC N: 218-818-3

R: 36/37/38  
S: 22-24/25

## Alizarin yellow - Analytical Grade

## RPE-For analysis-C.I. 14030



Description Brown crystalline powder      Loss on drying <=15 %      Residue on ignition 18,0 + 28,0 %  
 Colour change yellow-orange      E (1% ÷ 1 cm) a 492 nm 700 + 1000

Code	Size	Packaging
453451	g 10	Glass jar

Indicator according to Michaelis

## Alkali blue 6B

*Blu alcali 6B - Bleu alcalin 6B - Azul de alcali 6B*

**C<sub>27</sub>H<sub>26</sub>NaO<sub>7</sub>S**  
 Atomic weight: 595,70  
 CAS N: 1324-76-1  
 EEC N: 215-385-2



R: 20/21/22

## Alkali blue 6B - Special Grade

## RS-For microscopy-C.I. 42765



Description Brown violet powder

Code	Size	Packaging
428532	g 25	Glass jar

Stain for Cytology.

For further information on above products, see following product/application section(s)  
 Microscopy (p. 58)

## Alkali Blue 6B solution 2% in ethanol

*Blu alcali 6B soluzione 2% in alcolico etilico - Bleu alcalin 6B en solution à 2% dans l'éthanol - Azul de lcali 6B solución 2% en alcohol etílico*

**C<sub>27</sub>H<sub>26</sub>NaO<sub>7</sub>S**  
 CAS N: 1324-76-1  
 EEC N: 215-385-2

Transport classification  
 ONU n. 1993  
 Transport class: 3  
 Packaging group: II

R: 11  
S: 7-16

## Alkali Blue 6B solution 2% in ethanol - Analytical Grade

## RPE-For analysis



Description Blue liquid

Code	Size	Packaging
428541	ml 250	Bottle

A

## Alloxan tetrahydrate

Allossana tetraidrato - Alloxane tétrahydraté - Aloxana tetrahidrato

C<sub>4</sub>H<sub>4</sub>N<sub>2</sub>O<sub>4</sub>·4H<sub>2</sub>O  
CAS N: 50-71-5

B

C

## Alloxan tetrahydrate - Technical Grade

## RE-Pure

Assay (acidimetric) 96 + 100 %  
Water (K.F.) 30 + 35 %Description White crystalline powder  
Water-insoluble matter <=0.1 %

Melting point 254 + 256 ° C

Code	Size	Packaging
310601	g 10	Glass jar

Indicator for metals analysis

D

E

F

## Allyl bromide

Alille bromuro - Allyle bromure - Alilo bromuro

CH<sub>2</sub>:CHCH<sub>2</sub>Br  
Atomic weight: 120,99  
CAS N: 106-95-6  
EEC N: 203-446-6Transport classification  
ONU n. 1099  
Transport class: 3  
Secondary risk: 6.1  
Packaging group: IR: 11-26-40  
S: 16-29-33-45

G

H

## Allyl bromide - Analytical Grade

## RPE-For analysis

Assay (GLC) >=99 %  
Refractive index at 20° 1.4677 + 1.4717  
Acidity (bromidric ac.) <=500 ppmDescription Yellowish liquid  
Boiling point 65.0 + 70.5 ° CDensity at 20° C 1.420 + 1.430  
Water (K.F.) <=0.05 %

Code	Size	Packaging
416202	ml 250	Glass bottle

I

J

K

## Allylthiourea

Alilitiourea - Allylthiourée - Alilitiourea

CH<sub>2</sub>:CHCH<sub>2</sub>NHCSNH<sub>2</sub>  
Atomic weight: 116,19  
CAS N: 109-57-9  
EEC N: 203-683-5Transport classification  
ONU n. 2811  
Transport class: 6.1  
Packaging group: IIIR: 25  
S: 22-24/25-45

L

M

## Allylthiourea - Analytical Grade

## RPE-For analysis

Assay (ex nitrogen) 97.5 + 102.5 %  
Perdita essiccamento (50°C) <= 1.5 %

Description White crystalline powder

Melting point 70 + 78 ° C

Code	Size	Packaging
416281	g 25	Glass jar

N

O

P

## Alumina blue

Alumina blu - Alumine bleue - Alúmina azul

Al<sub>2</sub>O<sub>3</sub>  
CAS N: 1344-28-1  
EEC N: 215-691-6

Q

R

## Alumina blue - Special Grade

## RS-For metallography (Hard metals)



Description White suspension

Code	Size	Packaging
416501	g 120	Plastic bottle

S

T

U

## Alumina green

Alumina verde - Alumine verte - Alúmina verde

Al<sub>2</sub>O<sub>3</sub>  
CAS N: 1344-28-1  
EEC N: 215-691-6

V

W

## Alumina green - Special Grade

## RS-For metallography (High degree finish)



Description White suspension

Code	Size	Packaging
416511	g 120	Plastic bottle

X

Y

Z

## Alumina red

Allumina rossa - Alumine rouge - Alúmina roja

Al<sub>2</sub>O<sub>3</sub>

CAS N: 1344-28-1

EEC N: 215-691-6

A

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Q

R

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U

V

W

X

Y

Z

## Alumina red - Special Grade

## RS-For metallography (Soft metals)



Description White suspension

Code	Size	Packaging
416561	g 120	Plastic bottle

## Alumina white

Allumina bianca - Alumine blanche - Alúmina blanca

Al<sub>2</sub>O<sub>3</sub>

CAS N: 1344-28-1

EEC N: 215-691-6

## Alumina white - Special Grade

## RS-For metallography (Medium metals)



Description White suspension

Code	Size	Packaging
416531	g 120	Plastic bottle

## Alumina yellow

Allumina gialla - Alumine jaune - Alúmina amarilla

Al<sub>2</sub>O<sub>3</sub>

CAS N: 1344-28-1

EEC N: 215-691-6

## Alumina yellow - Special Grade

## RS-For metallography (High degree finish)



Description White suspension

Code	Size	Packaging
416521	g 120	Plastic bottle

## Aluminum

Alluminio - Aluminium - Aluminium

## Transport classification

ONU n. 3264

Transport class: 8

Packaging group: II

Packaging group: III

## Aluminum - Special Grade

## RS-NORMEX-concentrated solution for AAS



Description Clear colourless liquid

Titration factor 0.995 + 1.005

Code	Size	Packaging	Notes
416581	Ampoule	Plastic vial	conc. 1.000 ppm

Concentrated volumetric solution to prepare 1 l of solution 1 mg/ml

For further information on above products, see following product/application section(s)

Trace metal analysis (p. 86)

## RS-Standard solution for AAS



Description Clear colourless liquid

Titration factor 0.998 + 1.002

Code	Size	Packaging	Notes
497405	ml 100	Glass bottle	conc. 1.000 ppm
497401	ml 500	Plastic bottle	conc. 1.000 ppm

Ready-to-use solution: concentration 1 mg/ml

## RS-Standard solution for ICP



Code	Size	Packaging	Notes
503411	ml 100	Plastic bottle	Matrice: Hydrochloric acid, conc. 1.000 ppm
503415	ml 100	Plastic bottle	Matrice: Hydrochloric acid, conc. 10.000 ppm
503413	ml 500	Plastic bottle	Matrice: Hydrochloric acid, conc. 1.000 ppm
503417	ml 500	Plastic bottle	Matrice: Hydrochloric acid, conc. 10.000 ppm

Provided with real batch certificate. Verified against NIST Standard Reference

For further information on above products, see following product/application section(s)

Trace metal analysis (p. 86)

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
M  
N  
O  
P  
Q  
R  
S  
T  
U  
V  
W  
X  
Y  
Z

## Aluminum - Special Grade

## RS-Standard solution for ICP-MS



Code	Size	Packaging	Notes
505306	ml 50	Plastic bottle	Matrice: Nitric acid, conc. 10 ppm
505307	ml 100	Plastic bottle	Matrice: Nitric acid, conc. 10 ppm
505308	ml 100	Plastic bottle	Matrice: Nitric acid, conc. 100 ppm

For further information on above products, see following product/application section(s)

Trace metal analysis (p. 86)

## Aluminum-triisopropoxide

Alluminio isopropilato - Aluminium isopropylate - Aluminio isopropilato

 $Al[OCH(CH_3)_2]_3$ 

Atomic weight: 204,23

CAS N: 555-31-7

EEC N: 209-090-8

Transport classification

ONU n. 1325

Transport class: 4.1

Packaging group: III

R: 11  
S: 8-16

## Aluminum-triisopropoxide - Technical Grade

## RE-Pure



Assay >=98 % (Al)	Description	White irregular pieces	Chloride <=0.3 %
Sulphate <=100 ppm	Fe <=100 ppm		

Code	Size	Packaging
417376	g 500	Bag
417379	kg 25	Metallic can

## Aluminum ammonium sulphate

Alluminio ammonio solfato - Alun d'ammonium - Aluminio y amonio sulfato

 $AlNH_4(SO_4)_2 \cdot 52H_2O$ 

Atomic weight: 453,34

CAS N: 7784-26-1

EEC N: 232-055-3

## Aluminum ammonium sulphate - Analytical Grade

## RPE-For analysis



Assay (complexometric) >= 98.5 %	Description	White crystals	Loss on drying (300°C) 45 + 48 %
----------------------------------	-------------	----------------	----------------------------------

Code	Size	Packaging
416897	g 1000	Plastic jar
416896	g 10000	Plastic jar
416894	kg 50	Carton drum

## Aluminum ammonium sulphate - Technical Grade

## RE-Pure



Assay (complexometric) >=97 %	Description	White semitransparent crystals	Chloride <=50 ppm
Water-insoluble matter <=500 ppm	Heavy metals (Pb) <=100 ppm		Fe <=30 ppm

Code	Size	Packaging
311009	g 5000	Plastic jar
311004	kg 50	Sack

## Aluminum chloride

Alluminio cloruro - Aluminium chlorure - Aluminio cloruro hexahidrato

 $AlCl_3 \cdot 6H_2O$ 

Atomic weight: 241,44

CAS N: 7784-13-6

EEC N: 231-208-1



R: 36/38

## Aluminum chloride - Analytical Grade

## RPE-For analysis



Assay (complexometric) >= 99 %	Description	White crystals	pH sol. 5% at 25° C 2.5 + 3.5
Sulphate <= 50 ppm	Cd <= 50 ppm		Cu <= 50 ppm
Fe <= 50 ppm	Zn <= 50 ppm		Ca <= 100 ppm
Co <= 50 ppm	K <= 100 ppm		Na <= 0.05 %
Ni <= 50 ppm	Pb <= 50 ppm		

Code	Size	Packaging
416947	g 1000	Plastic jar
416949	g 5000	Plastic jar
416944	kg 50	Carton drum

## Aluminum chloride - Pharmaceutical Grade

## Aluminum chloride - Pharmaceutical Grade

## RPH-According to pharmacopoeia: Ph.Eur.-USP



Assay (complexometric) 95.0 + 102.0 % s.s.	Assay (complexometric) 95.0 + 101.0 % l.q.	Description White crystals
Water (K.F.) 42.0 + 48.0 %	Alkaline.alk. earth met. <= 0.5 %	Heavy metals (Pb) <= 20 ppm
Fe <= 10 ppm	Appearance of solution Conform Ph.Eur.	Sulphate <= 100 ppm
Origin (BSE/TSE) Synthesis	Residual solvents (CPMP/ICH/283/95) Conform	

Code	Size	Packaging
311257	g 1000	Plastic jar
311257	g 1000	Plastic jar
311252	g 5000	Plastic bottle
311254	kg 50	Fibre drum

## Aluminum chloride anhydrous

Aluminio cloruro anidro - Aluminium chloride anhydrous - Aluminio cloruro anhidro

AlCl<sub>3</sub>

Atomic weight: 133,34  
CAS N: 7446-70-0  
EEC N: 231-208-1

## Transport classification

ONU n. 1726  
Transport class: 8  
Packaging group: II



R: 34  
S: 7/8-28-45

## Aluminum chloride anhydrous - Technical Grade

## RE-Pure



Assay (complexometric) >=98 %	Description Yellowish powder	Heavy metals (Pb) <=20 ppm
Sulphate <=100 ppm	Fe <=500 ppm	

Code	Size	Packaging
416996	g 500	Glass jar

## Aluminum flakes

Aluminio scaglie - Aluminium en écailles - Aluminio escamas

## Al

Atomic weight: 26,981  
CAS N: 7429-90-5  
EEC N: 231-072-3

## Aluminum flakes - Analytical Grade

## RPE-For analysis



Assay (gravimetric) >=99 %	Description Flakes
----------------------------	--------------------

Code	Size	Packaging
416846	g 500	Bag

## Aluminum hydroxide

Aluminio idrossido - Aluminium hydroxyde - Aluminio hidróxido

Al(OH)<sub>3</sub>

Atomic weight: 78,004  
CAS N: 21645-51-2  
EEC N: 244-492-7

## Aluminum hydroxide - Analytical Grade

## RPE-For analysis



Assay (complexometric) >=98 %	Description White powder	Loss on ignition 32.8 + 34.3 %
Total nitrogen <=100 ppm	Chloride <=20 ppm	Heavy metals (Pb) <=50 ppm
Subst. not ppt NH <sub>4</sub> OH <=0.25 %	Silicate <=0.1 %	Sulphate <=50 ppm
Water solubility <=0.25 %	As <=5 ppm	Cd <=10 ppm
Cu <=10 ppm	Fe <=50 ppm	Na <=0.3 %
Pb <=10 ppm	Zn <=50 ppm	

Code	Size	Packaging
417046	g 500	Plastic jar
417047	g 1000	Plastic jar

## Aluminum hydroxide - Technical Grade

## RE-Pure



Description White powder	Loss on ignition 31 + 36 %	Chloride <=300 ppm
Heavy metals (Pb) <=30 ppm	Sulphate <=500 ppm	Water solubility <=0.5 %
Fe <=200 ppm		

Code	Size	Packaging
311734	g 1000	Plastic jar
311738	kg 50	Sack

A

## Aluminum nitrate

Alluminio nitrato - Aluminium nitrate - Aluminio nitrato

Al(NO<sub>3</sub>)<sub>3</sub>·9H<sub>2</sub>O

Atomic weight: 375,13

CAS N: 7784-27-2

EEC N: 236-751-8

Transport classification

ONU n. 1438

Transport class: 5.1

Packaging group: III

R: 8-22-36-38  
S: 17-22

B

C

## Aluminum nitrate - Analytical Grade

## RPE-ACS-for analysis



Assay &gt;= 99 %

Description Semitransparent crystals

pH sol. 5% at 20°C 2.5 + 3.5

Chloride &lt;= 20 ppm

Sulphate &lt;= 50 ppm

Heavy metals (Pb) &lt;= 20 ppm

Fe &lt;= 20 ppm

Code	Size	Packaging
417097	g 1000	Plastic jar
417094	kg 50	Fibre drum

D

E

F

## Aluminum nitrate - Technical Grade

## RE-Pure



Assay (complexometric) &gt;= 99 %

Description Cristalli trasparenti

pH solution 5% 2.5 + 3.5

Chloride &lt;= 20 ppm

Heavy metals (Pb) &lt;= 20 ppm

Sulphate &lt;= 50 ppm

Fe &lt;= 20 ppm

Code	Size	Packaging
312007	g 1000	Plastic jar
312004	kg 50	Fibre drum

H

I

J

## Aluminum oxide

Alluminio ossido - Aluminium oxyde - Aluminio óxido

Al<sub>2</sub>O<sub>3</sub>

Atomic weight: 101,96

CAS N: 1344-28-1

EEC N: 215-691-6

## Aluminum oxide - Analytical Grade

## RPE-For analysis



Assay (complexometric) &gt;=98.0 %

Description White powder

Total nitrogen &lt;=100 ppm

Chloride &lt;=500 ppm

Heavy metals (Pb) &lt;=10 ppm

Subst. not ppt NH<sub>4</sub>OH <=0.5 %

Loss on ignition &lt;=0.5 %

Sulphate &lt;=0.1 %

Water solubility &lt;=0.4 %

As &lt;=5 ppm

Cd &lt;=5 ppm

Cu &lt;=5 ppm

Fe &lt;=50 ppm

Na &lt;=0.3 %

Pb &lt;=5 ppm

Zn &lt;=10 ppm

Code	Size	Packaging
417145	g 250	Plastic jar
417147	g 1000	Plastic jar
417143	kg 25	Carton drum

M

N

O

P

## Aluminum oxide - Technical Grade

## RE-Pure



Assay (complexometric) &gt;= 99.5 %

Description White powder

CaO &lt;= 300 ppm

Fe<sub>2</sub>O<sub>3</sub> <= 300 ppmNa<sub>2</sub>O <= 0.3 %P<sub>2</sub>O<sub>5</sub> <= 30 ppm

Si &lt;= 300 ppm

TiO<sub>2</sub> <= 50 ppm

Code	Size	Packaging
312258	g 2500	Plastic jar
312259	g 5000	Plastic jar
312254	kg 50	Sack

R

S

T

## Aluminum oxide (acid)

Alluminio ossido (acido) - Aluminium oxyde (acide) - Aluminio óxido (ácido)

Al<sub>2</sub>O<sub>3</sub>

CAS N: 1344-28-1

EEC N: 215-691-6

## Aluminum oxide (acid) - Special Grade

## RS-For chromatography according to Brockmann



Description White crystalline powder

Activity grade 1 Conform

Code	Size	Packaging
417185	g 250	Bag
417182	g 1000	Plastic jar

See label instructions

For further information on above products, see following product/application section(s)

Chromatography (p. 34)

X

Y

Z

## Aluminum oxide (basic)

Aluminio ossido (basico) - Aluminium oxyde (basique) - Aluminio óxido (básico)

Al<sub>2</sub>O<sub>3</sub>

CAS N: 1344-28-1

EEC N: 215-691-6

## Aluminum oxide (basic) - Special Grade

## RS-For chromatography according to Brockmann



Description White granular powder Activity grade 1 Conform

Code	Size	Packaging
417214	g 100	Bag
417217	g 1000	Plastic jar

See label instructions

For further information on above products, see following product/application section(s)

Chromatography (p. 34)

## Aluminum oxide (basic) - Technical Grade

## PS-Pure-for synthesis



Code	Size	Packaging
P2220017	g 1000	Plastic jar
P2220044	kg 25	Metal bucket

## Aluminum oxide (neutral)

Aluminio ossido (neutro) - Aluminium oxyde (neutre) - Aluminio óxido (neutro)

Al<sub>2</sub>O<sub>3</sub>

CAS N: 1344-28-1

EEC N: 215-691-6

## Aluminum oxide (neutral) - Special Grade

## RS-For chromatography according to Brockmann

Description White granular powder Activity grade 1 Conform pH suspension 10% H<sub>2</sub>O 6.5 + 7.5  
Fe<sub>2</sub>O<sub>3</sub> <= 0.03 % SiO<sub>2</sub> <= 0.03 % Na<sub>2</sub>O <= 0.4 %

Code	Size	Packaging
417245	g 250	Bag
417241	g 1000	Plastic jar
417248	g 2500	Jar

For further information on above products, see following product/application section(s)

Chromatography (p. 34)

## Aluminum oxide (neutral) - Technical Grade

## PS-Pure-for synthesis



Code	Size	Packaging
P2210017	g 1000	Plastic jar

## Aluminum oxide activated

Aluminio ossido attivo - Aluminium oxyde actif - Aluminio óxido activo

Al<sub>2</sub>O<sub>3</sub>

Atomic weight: 101,96

CAS N: 1344-28-1

EEC N: 215-691-6

## Aluminum oxide activated - Technical Grade

## RE-Pure



Description Whitish granules Diameter 0.1 + 0.5 mm

Code	Size	Packaging
312261	g 1000	Plastic jar

(Diameter mm 2+5).

For further information on above products, see following product/application section(s)

Adsorbants (p. 22)

## Aluminum phosphate tribasic

Aluminio fosfato tribasico - Aluminium phosphate tribasique - Aluminio fosfato trib sico

AlPO<sub>4</sub>·3H<sub>2</sub>O

Atomic weight: 176,02

CAS N: 13477-75-3

## Aluminum phosphate tribasic - Technical Grade

A

## Aluminum phosphate tribasic - Technical Grade

## RE-Pure



Assay (Al<sub>2</sub>O<sub>3</sub>) 27.5 + 28.5 %  
Loss on ignition 30 + 35 %  
Fe <=200 ppm

Assay (P<sub>2</sub>O<sub>5</sub>) 35 + 40 %  
HCl-insoluble matter <=100 ppm

Description White granular powder  
Heavy metals (Pb) <=50 ppm

Code	Size	Packaging
311505	g 250	Plastic jar
311507	g 1000	Plastic jar

B

C

D

## Aluminum potassium sulphate

Alluminio potassio solfato - Aluminium potassium sulfate - Aluminio y potasio sulfato

AlK(SO<sub>4</sub>)<sub>2</sub>·12H<sub>2</sub>O  
Atomic weight: 474,39  
CAS N: 7784-24-9  
EEC N: 233-141-3

## Aluminum potassium sulphate - Analytical Grade

## RPE-ACS-for analysis



Assay (complexometric) 98.0 + 102.0 %  
Ammonium <=50 ppm  
Fe <=10 ppm

Description White crystals  
Chloride <=5 ppm  
Na <=200 ppm

Water-insoluble matter <=50 ppm  
Heavy metals (Pb) <=10 ppm

Code	Size	Packaging
417297	g 1000	Plastic jar

E

F

G

H

## Aluminum potassium sulphate - Pharmaceutical Grade

## RPH-According to pharmacopoeia: Ph.Eur.-USP-FU-Ph.Franc.-BP



Assay (complexometric) 99.0 + 100.5 %  
pH 10% at 25° C 3.0 + 3.5  
Heavy metals (Pb) <= 20 ppm  
Residual solvents (CPMP/ICH/283/95) Conform

Description White crystalline powder  
Loss on drying 43.0 + 46.0 %  
Fe <= 100 ppm

Appearance of solution Conform Ph.Eur.  
Ammonium <= 0.2 %  
Origin (BSE/TSE) Synthesis

Code	Size	Packaging
312401	g 1000	Plastic bottle
312402	g 10000	Plastic tank
312403	kg 50	Fibre drum

I

J

K

L

## Aluminum potassium sulphate powder

Alluminio potassio solfato polvere - Aluminium potassium sulfate en poudre - Aluminium potassium sulfate en poudre

AlK(SO<sub>4</sub>)<sub>2</sub>·12H<sub>2</sub>O  
Atomic weight: 474,39  
CAS N: 7784-24-9  
EEC N: 233-141-3

## Aluminum potassium sulphate powder - Technical Grade

## RE-Pure



Assay (complexometric) >= 97 %  
Heavy metals (Pb) <= 50 ppm

Description White crystalline powder  
Fe <= 300 ppm

Water-insoluble matter <= 500 ppm

Code	Size	Packaging
312508	g 2500	Bottle
312504	kg 50	Sack

M

N

O

P

Q

## Aluminum powder

Alluminio polvere - Aluminium en poudre - Aluminio polvo

Al  
Atomic weight: 26,981  
CAS N: 7429-90-5  
EEC N: 231-072-3

Transport classification  
ONU n. 1309  
Transport class: 4.1  
Packaging group: II



R: 10-15  
S: 7/8-43

## Aluminum powder - Analytical Grade

## RPE-For analysis



Assay (complexometric) >= 95 %  
Fe <= 0.6 %

Description Grey powder  
Zn <= 0.08 %

Cu <= 0.03 %

Code	Size	Packaging
416817	g 1000	Metallic can

R

S

T

U

V

## Aluminum sulphate

Alluminio solfato - Aluminium sulfate - Aluminium sulfate

Al<sub>2</sub>(SO<sub>4</sub>)<sub>3</sub>·18H<sub>2</sub>O  
Atomic weight: 666,42  
CAS N: 7784-31-8  
EEC N: 233-135-0

## Aluminum sulphate - Analytical Grade

W

X

Y

Z



## Aluminum sulphate - Analytical Grade



## RPE-ACS-for analysis

Assay (complexometric) 98.0 + 102.0 %	Description White crystals	Ca <= 100 ppm
Water-insoluble matter <= 100 ppm	Heavy metals (Pb) <= 10 ppm	Chloride <= 50 ppm
Fe <= 20 ppm	K <= 50 ppm	Mg <= 20 ppm
Na <= 0.02 %		

Code	Size	Packaging
417427	g 1000	Plastic jar

## Aluminum sulphate - Technical Grade

## RE-Pure



Assay (complexometric) 16 + 18 % (Al <sub>2</sub> O <sub>3</sub> )	Description White crystals	Heavy metals (Pb) <=50 ppm
Fe <=100 ppm		

Code	Size	Packaging
312752	g 10000	Tank
312751	kg 25	Fibre drum

## Aluminum wire

Alluminio filo - Aluminium en fils - Aluminio hilos

Al  
Atomic weight: 26,981  
CAS N: 7429-90-5  
EEC N: 231-072-3

## Aluminum wire - Analytical Grade

## RPE-For analysis



Assay (gravimetric) >=99.5 %	Description Filo metallic
------------------------------	---------------------------

Code	Size	Packaging
416616	g 500	Bag

(Diameter ~mm 1).

## Amaranth

Amaranto - Amarante - Amarantho

C<sub>20</sub>H<sub>11</sub>Na<sub>3</sub>O<sub>10</sub>S<sub>8</sub>  
Atomic weight: 604,49  
CAS N: 915-67-3  
EEC N: 213-022-2

Transport classification  
ONU n. 3143  
Transport class: 6.1  
Packaging group: III



R: 20/21/22  
S: 13

## Amaranth - Analytical Grade

## RPE-For analysis-C.I. 16185



Description Red brown powder	Assorbanza a 520nm >= 0,74
------------------------------	----------------------------

Code	Size	Packaging
417841	g 10	Glass jar

Stain for Microscopy (hystochemistry) Indicator for hydrazine titration.

## Amidoschwarz B 10 solution

Amido nero 10B in soluzione - Noir amido 10B - Negro Amido 10B

C<sub>22</sub>H<sub>14</sub>N<sub>6</sub>O<sub>6</sub>S<sub>4</sub>Na<sub>2</sub>  
CAS N: 1064-48-8  
EEC N: 213-903-1

## Amidoschwarz B 10 solution - Special Grade

## RS-For agroalimentary analysis



Density at 20°C 1.006 + 1.012	pH at 20°C 2.30 + 2.50	Absorbance (sol 1/100)
at 620 nm 0.700 + 0.730 AU		

Code	Size	Packaging
502050	ml 5000	Plastic drum

For further information on above products, see following product/application section(s)  
Agriculture and food sector analyses (p. 25)

## 1-Amino-2-naphthol-4-sulphonic acid

Acido 1-ammino-2-naftolo-4-solfonico - Acide 1-amino-2-naphtol-4-sulfonique - Acido 1-amino-2-naftol-4-sulfonico

NH<sub>2</sub>C<sub>10</sub>H<sub>6</sub>(OH)SO<sub>3</sub>H  
Atomic weight: 239,24  
CAS N: 116-63-2  
EEC N: 204-147-3



R: 20/21/22

## 1-Amino-2-naphthol-4-sulphonic acid - Analytical Grade

A

## 1-Amino-2-naphthol-4-sulphonic acid - Analytical Grade

## RPE-For analysis



Assay  $\geq 94\%$  Description Pink granular powder Water (K.F.)  $\leq 5\%$   
 Sulphated ash  $\leq 0.5\%$

Code	Size	Packaging
402032	g 25	Glass jar

For the analysis of phosphates

B

C

D

## 2-Amino-2-methyl-1,3-propanediol

2-Amino-2-metil-1,3-propandiolo - 2-Amino-2-méthyl-1,3-propanediol - 2-Amino-2-metil-1,3-propandioli

**(HOCH<sub>2</sub>)<sub>2</sub>C(NH<sub>2</sub>)CH<sub>3</sub>**  
 Atomic weight: 105,14  
 CAS N: 115-69-5  
 EEC N: 204-100-7

E

F

## 2-Amino-2-methyl-1,3-propanediol - Analytical Grade

## RPE-For analysis



Description Yellowish powder Melting point 108 + 110 °C

Code	Size	Packaging
418711	g 250	Glass jar

For further information on above products, see following product/application section(s)  
 Buffers (p. 30)

G

H

I

## p-Aminobenzoic acid

Acido p-aminobenzoico - Acide p-aminobenzoïque - Acido p-aminobenzoico

**H<sub>2</sub>NC<sub>6</sub>H<sub>4</sub>COOH**  
 Atomic weight: 137,13  
 CAS N: 150-13-0  
 EEC N: 205-753-0



R: 20/21/22

J

K

## p-Aminobenzoic acid - Pharmaceutical Grade

## RPH-According to pharmacopoeia: USP-BP



Assay (acidimetric) 98.5 + 100.5 % s.s. Description Yellowish powder Ordinary impurities Conform USP-NF  
 Melting point 186 + 189 °C Loss on drying  $\leq 0.2\%$  Sulphated ash  $\leq 0.1\%$   
 Volat. diazotizable sub  $\leq 20$  ppm Heavy metals (Pb)  $\leq 20$  ppm Origin (BSE/TSE) Synthesis

Code	Size	Packaging
391804	g 100	Plastic bottle

L

M

N

## 3-Aminomethylalizarine-N,N-diacetic acid cerium complex s

**C<sub>16</sub>H<sub>18</sub>CaNO<sub>8</sub>·5H<sub>2</sub>O**  
 Atomic weight: 559,48

Transport classification  
 ONU n. 1993  
 Transport class: 3  
 Packaging group: II

R: 11  
S: 9-16-33

O

P

## 3-Aminomethylalizarine-N,N-diacetic acid cerium complex s - Analytical Grade

## RPE-For analysis



Description Purple clear liquid Fluoride sensitivity Positive

Code	Size	Packaging
402013	ml 250	Glass bottle

Q

R

S

## 4-Aminophenazon

4-Aminofenazone - 4-Aminophénazone - 4-Aminofenazona

**C<sub>12</sub>H<sub>11</sub>NN(CH<sub>3</sub>)C(CH<sub>3</sub>)<sub>2</sub>C(NH<sub>2</sub>)CO**  
 Atomic weight: 203,25  
 CAS N: 83-07-8  
 EEC N: 201-452-3

R: 22  
S: 20

T

U

## 4-Aminophenazon - Special Grade

## RS-For phenols detection



Assay (non-aqueous medium)  $\geq 97.5\%$  (s.s.) Description Yellowish crystalline powder Melting point 105.5 + 110 °C  
 Loss on drying  $\leq 1.5\%$  Residue on ignition  $\leq 0.1\%$

Code	Size	Packaging
418381	g 25	Glass jar

V

W

X

## m-Aminophenol

m-Aminofenolo - m-Aminophenol - m-Aminofenol

**NH<sub>2</sub>C<sub>6</sub>H<sub>4</sub>OH**  
 Atomic weight: 109,12  
 CAS N: 591-27-5  
 EEC N: 209-711-2

Transport classification  
 ONU n. 2512  
 Transport class: 6.1  
 Packaging group: III

R: 20/22-51/53  
S: 28-61Synonymes  
m-Hydroxyaniline

Y

Z

## m-Aminophenol - Technical Grade

## m-Aminophenol - Technical Grade

## RE-Pure



Assay (ex nitrogen)  $\geq 98$  % Description Yellowish powder Melting point  $121.5 \pm 124.5$  ° C  
Residue on ignition  $\leq 0.1$  %

Code	Size	Packaging
418564	g 100	Glass jar

## p-Aminophenol

p-Aminofenolo - p-Aminophénol - p-Amino fenol

NH<sub>2</sub>C<sub>6</sub>H<sub>4</sub>OH

Atomic weight: 109,12  
CAS N: 123-30-8  
EEC N: 204-616-2

## Transport classification

ONU n. 2512  
Transport class: 6.1  
Packaging group: III



R: 20/22-40-50/53  
S: 28-36/37-60-61

## p-Aminophenol - Technical Grade

## RE-Pure



Assay (GLC)  $\geq 96.0$  % Description White powder or yellow Residue on ignition  $\leq 2.5$  %

Code	Size	Packaging
418594	g 100	Glass jar

## Amman's lactophenol solution

Lattofenolo d'Amman soluzione - Lactophénol d'Amman en solution - Lactofenol de Amman solución

## Transport classification

ONU n. 2810  
Transport class: 6.1  
Packaging group: II



R: 24/25-34  
S: 28-45

## Amman's lactophenol solution - Special Grade

## RS-For microscopy



Description Amber liquid Density at 20°C  $1.155 \pm 1.159$

Code	Size	Packaging
457531	ml 100	Glass bottle

Stain for Bacteriology. It contains phenol.

For further information on above products, see following product/application section(s)  
Microscopy (p. 58)

## Ammonia solution 32%

Ammoniacca soluzione 32% - Ammoniaque solution 32% - Amonio hidróxido 32%

NH<sub>4</sub>OH

Atomic weight: 35,046  
CAS N: 1336-21-6  
EEC N: 215-647-6

## Transport classification

ONU n. 2672  
Transport class: 8  
Packaging group: III



R: 34-50  
S: 26-36/37/39-45-61

## Ammonia solution 32% - Technical Grade

## RE-Pure



Assay (alcalimetric)  $28 \pm 34$  % Description Clear liquid Color  $\leq 10$  APHA  
Density at 20°C  $0.880 \pm 0.898$

Code	Size	Packaging
528503	ml 5000	Plastic drum
528501	kg 27	Drum

## Ammonia solution 30%

Ammoniacca soluzione 30% - Ammoniaque solution 30% - Amonio hidróxido 30%

NH<sub>4</sub>OH

Atomic weight: 35,046  
CAS N: 1336-21-6  
EEC N: 215-647-6

## Transport classification

ONU n. 2672  
Transport class: 8  
Packaging group: III



R: 34-50  
S: 26-36/37/39-45-61

## Ammonia solution 30% - Analytical Grade

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
M  
N  
O  
P  
Q  
R  
S  
T  
U  
V  
W  
X  
Y  
Z

## Ammonia solution 30% - Analytical Grade

## RPE-ACS-for analysis-Reag. Ph.Eur.-Reag. USP



<b>Assay (alkalimetric) 28.0 + 30.0 %</b>	Description Clear colourless liquid	Colour (APHA) <=10
Density at 20° C 0.886 + 0.898	Residue on evaporation <=20 ppm	Carbonate <=10 ppm
Chloride <=0.5 ppm	Phosphate <=0.3 ppm	Heavy metals (Pb) <=0.4 ppm
Pyridine and homologues <=2 ppm	Subst. reducing KMnO4 <=8 ppm(5m)	Silicate <=10 ppm
Sulphide <=0.1 ppm	Sulphate <=2 ppm	Ag <=0.02 ppm
Al <=0.05 ppm	As <=0.02 ppm	B <=0.05 ppm
Ba <=0.1 ppm	Be <=0.02 ppm	Bi <=0.1 ppm
Ca <=0.5 ppm	Cd <=0.01 ppm	Co <=0.01 ppm
Cr <=0.02 ppm	Cu <=0.02 ppm	Fe <=0.05 ppm
Ga <=0.02 ppm	In <=0.02 ppm	K <=0.2 ppm
Li <=0.02 ppm	Mg <=0.1 ppm	Mn <=0.01 ppm
Mo <=0.05 ppm	Na <=1 ppm	Ni <=0.02 ppm
Pb <=0.02 ppm	Pt <=0.1 ppm	Sn <=0.1 ppm
Sr <=0.02 ppm	Ti <=0.1 ppm	Tl <=0.05 ppm
V <=0.05 ppm	Zn <=0.05 ppm	Zr <=0.1 ppm
Nitrate <=2 ppm	Residue on ignition <=20 ppm	

Code	Size	Packaging
419941	ml 1000	Glass bottle
419943	ml 2000	Glass bottle
419948	ml 2000	Plastic bottle
419945	ml 5000	Carton drum
419946	kg 25	Plastic drum

## Ammonia solution 30% - Special Grade

## RS-For agroalimentary analysis



Code	Size	Packaging
526503	kg 27	Drum

## RS-Nuclear



Code	Size	Packaging
526501	kg 190	Drum

## RS-RSE For electronic use-ERBATRON



<b>Assay (alkalimetric) 28 + 32 %</b>	Description Clear liquid	Colour (APHA) <=10
Density at 20° C 0.886 + 0.898	Carbonate <=5 ppm	Chloride <=0.25 ppm
Phosphate <=0.2 ppm	Heavy metals (Pb) <=0.2 ppm	Residue on ignition <=3 ppm
Subst. reducing KMnO4 <=5 ppm	Total sulphur <=1 ppm	Ag <=0.02 ppm
Al <=0.05 ppm	As <=0.025 ppm	Au <=0.05 ppm
B <=0.01 ppm	Ba <=0.1 ppm	Be <=0.02 ppm
Bi <=0.02 ppm	Ca <=0.2 ppm	Cd <=0.01 ppm
Co <=0.01 ppm	Cr <=0.01 ppm	Cu <=0.01 ppm
Fe <=0.03 ppm	Ga <=0.02 ppm	In <=0.02 ppm
K <=0.2 ppm	Li <=0.02 ppm	Mg <=0.1 ppm
Mn <=0.01 ppm	Mo <=0.05 ppm	Na <=0.5 ppm
Ni <=0.01 ppm	Pb <=0.01 ppm	Pt <=0.05 ppm
Sb <=0.05 ppm	Sn <=0.02 ppm	Sr <=0.02 ppm
Ta <=0.1 ppm	Ti <=0.05 ppm	Tl <=0.05 ppm
V <=0.05 ppm	Zn <=0.05 ppm	Zr <=0.05 ppm

Code	Size	Packaging
420071	ml 1000	Glass bottle
420073	ml 2000	Glass bottle
420077	ml 5000	Plastic bottle
420075	kg 25	Plastic drum

## Ammonia solution 30% - Technical Grade

## RE-Pure



<b>Assay (alkalimetric) 28 + 32 %</b>	Description Clear liquid	Density at 15° C 0.88 + 0.89
Residue on evaporation <=0.1 %	Chloride <=300 ppm	Heavy metals (Pb) <=50 ppm
Sulphate <=500 ppm	Fe <=20 ppm	

Code	Size	Packaging
314873	ml 2000	Glass bottle
314871	kg 25	Plastic drum

## Ammonia solution 28%

Ammoniaca soluzione 28% - Ammoniaque solution 28% - Amonio hidróxido 28%

**NH<sub>4</sub>OH**  
Atomic weight: 35,046  
CAS N: 1336-21-6  
EEC N: 215-647-6

**Transport classification**  
ONU n. 2672  
Transport class: 8  
Packaging group: III



R: 34-50  
S: 26-36/37/39-45-61

## Ammonia solution 28% - Pharmaceutical Grade

## Ammonia solution 28% - Pharmaceutical Grade

## RPH-According to pharmacopoeia: NF-FU



<b>Assay (alkalimetric) 27.0 + 30.0 % NH<sub>3</sub></b>	Description Clear colourless liquid	Appearance of solution Conform Ph.Eur.
Density at 20° C 0.892 + 0.910	Carbonate <= 60 ppm	Chloride <= 1 ppm
Sulphate <= 5 ppm	Heavy metals (Pb) <= 1 ppm	Fe <= 0.25 ppm
Non volat.substances <= 0.002 % m/v	Ready oxidizable substances Conform Ph.Eur.	Pyridine and homologues Conform Ph.Eur.
Origin (BSE/TSE) Synthesis		

Code	Size	Packaging	
314862	ml 100	Bottle	
314861	ml 1000	Glass bottle	26° Bé
314863	ml 2000	Glass bottle	26° Bé
314866	kg 25	Plastic drum	26° Bé

## Ammonia solution 25%

Ammoniacca soluzione 25% - Ammoniaque solution 25% - Amonio hidróxido 25%

NH<sub>4</sub>OH

Atomic weight: 35,046  
CAS N: 1336-21-6  
EEC N: 215-647-6

## Transport classification

ONU n. 2672  
Transport class: 8  
Packaging group: III



R: 34-50  
S: 26-36/37/39-45-61

## Ammonia solution 25% - Analytical Grade

## RPE-For analysis



<b>Assay (alkalimetric) 24.0 + 26.0 %</b>	Description Clear liquid	Colour (APHA) <=10
Density at 20° C 0.901 + 0.907	Carbonate <=10 ppm	Chloride <=0.5 ppm
Phosphate <=0.3 ppm	Heavy metals (Pb) <=0.4 ppm	Pyridine and homologues <=2 ppm
Residue on ignition <=3 ppm	Subst. reducing KMnO <sub>4</sub> <=8 ppm(5m)	Sulphide <=0.1 ppm
Total sulphur <=1 ppm	Ag <=0.02 ppm	Al <=0.05 ppm
As <=0.02 ppm	B <=0.05 ppm	Ba <=0.1 ppm
Be <=0.02 ppm	Bi <=0.1 ppm	Ca <=0.5 ppm
Cd <=0.01 ppm	Co <=0.01 ppm	Cr <=0.02 ppm
Cu <=0.02 ppm	Fe <=0.05 ppm	Ga <=0.02 ppm
In <=0.02 ppm	K <=0.2 ppm	Li <=0.02 ppm
Mg <=0.1 ppm	Mn <=0.01 ppm	Mo <=0.05 ppm
Na <=1 ppm	Ni <=0.02 ppm	Pb <=0.02 ppm
Pt <=0.1 ppm	Sn <=0.1 ppm	Sr <=0.02 ppm
Ti <=0.1 ppm	Tl <=0.05 ppm	V <=0.05 ppm
Zn <=0.05 ppm	Zr <=0.1 ppm	

Code	Size	Packaging
419993	ml 2000	Glass bottle

## Ammonia solution 25% - Special Grade

## RS-MOS For electronic use-ERBATRON



<b>Assay (alkalimetric) 24.0 + 26.0 %</b>	Description Clear liquid	Colour (APHA) <=10
Density at 20° C 0.901 + 0.907	Carbonate <=5 ppm	Chloride <=0.25 ppm
Phosphate <=0.2 ppm	Heavy metals (Pb) <=0.2 ppm	Residue on ignition <=3 ppm
Subst. reducing KMnO <sub>4</sub> <=5 ppm	Total sulphur <=1 ppm	Ag <=0.02 ppm
Al <=0.05 ppm	As <=0.025 ppm	Au <=0.05 ppm
B <=0.01 ppm	Ba <=0.1 ppm	Be <=0.02 ppm
Bi <=0.02 ppm	Ca <=0.2 ppm	Cd <=0.01 ppm
Co <=0.01 ppm	Cr <=0.01 ppm	Cu <=0.01 ppm
Fe <=0.03 ppm	Ga <=0.02 ppm	In <=0.02 ppm
K <=0.2 ppm	Li <=0.02 ppm	Mg <=0.1 ppm
Mn <=0.01 ppm	Mo <=0.05 ppm	Na <=0.5 ppm
Ni <=0.01 ppm	Pb <=0.01 ppm	Pt <=0.05 ppm
Sb <=0.05 ppm	Sn <=0.02 ppm	Sr <=0.02 ppm
Ta <=0.1 ppm	Ti <=0.05 ppm	Tl <=0.05 ppm
V <=0.05 ppm	Zn <=0.05 ppm	Zr <=0.05 ppm

Code	Size	Packaging
420051	ml 1000	Plastic bottle

Minimum order: 80 bottles

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## Ammonia solution 25% - Special Grade

## RS-RSE For electronic use-ERBATRON



<b>Assay (alkalimetric) 24.0 + 26.0 %</b>	Description Clear liquid	Colour (APHA) <=10
Density at 20° C 0.901 + 0.907	Carbonate <=5 ppm	Chloride <=0.25 ppm
Phosphate <=0.2 ppm	Heavy metals (Pb) <=0.2 ppm	Residue on ignition <=3 ppm
Subst. reducing KMnO4 <=5 ppm	Total sulphur <=1 ppm	Ag <=0.02 ppm
Al <=0.05 ppm	As <=0.025 ppm	Au <=0.05 ppm
B <=0.01 ppm	Ba <=0.1 ppm	Be <=0.02 ppm
Bi <=0.02 ppm	Ca <=0.2 ppm	Cd <=0.01 ppm
Co <=0.01 ppm	Cr <=0.01 ppm	Cu <=0.01 ppm
Fe <=0.03 ppm	Ga <=0.02 ppm	In <=0.02 ppm
K <=0.2 ppm	Li <=0.02 ppm	Mg <=0.1 ppm
Mn <=0.01 ppm	Mo <=0.05 ppm	Na <=0.5 ppm
Ni <=0.01 ppm	Pb <=0.01 ppm	Pt <=0.05 ppm
Sb <=0.05 ppm	Sn <=0.02 ppm	Sr <=0.02 ppm
Ta <=0.1 ppm	Ti <=0.05 ppm	Tl <=0.05 ppm
V <=0.05 ppm	Zn <=0.05 ppm	Zr <=0.05 ppm

Code	Size	Packaging
420083	ml 2000	Glass bottle
420085	ml 5000	Plastic bottle
420084	kg 25	Plastic drum
420088	kg 170	Drum

## Ammonia solution 20%

Ammoniacca soluzione 20% - Ammoniaque solution 20% - Amonio hidróxido 20%

NH<sub>4</sub>OHAtomic weight: 35,046  
CAS N: 1336-21-6  
EEC N: 215-647-6

## Transport classification

ONU n. 2672  
Transport class: 8  
Packaging group: IIIR: 34-50  
S: 26-36/37/39-45-61

## Ammonia solution 20% - Analytical Grade

## RPE-For analysis



<b>Assay (alkalimetric) 20 + 22 %</b>	Description Clear liquid	Colour (APHA) <=10
Density at 20° C 0.917 + 0.923	Carbonate <=10 ppm	Chloride <=0.5 ppm
Phosphate <=0.3 ppm	Heavy metals (Pb) <=0.4 ppm	Pyridine and homologues <=2 ppm
Residue on calcination <=3 ppm	Subst. reducing KMnO4 <=8 ppm(5m)	Sulphide <=0.1 ppm
Total sulphur <=1 ppm	Ag <=0.02 ppm	Al <=0.05 ppm
As <=0.02 ppm	B <=0.05 ppm	Ba <=0.1 ppm
Be <=0.02 ppm	Bi <=0.1 ppm	Ca <=0.5 ppm
Cd <=0.01 ppm	Co <=0.01 ppm	Cr <=0.02 ppm
Cu <=0.02 ppm	Fe <=0.05 ppm	Ga <=0.02 ppm
In <=0.02 ppm	K <=0.2 ppm	Li <=0.02 ppm
Mg <=0.1 ppm	Mn <=0.01 ppm	Mo <=0.05 ppm
Na <=1 ppm	Ni <=0.02 ppm	Pb <=0.02 ppm
Pt <=0.1 ppm	Sn <=0.1 ppm	Sr <=0.02 ppm
Ti <=0.1 ppm	Tl <=0.05 ppm	V <=0.05 ppm
Zn <=0.05 ppm	Zr <=0.1 ppm	

Code	Size	Packaging
419981	ml 1000	Glass bottle
419983	ml 2000	Glass bottle
419984	kg 25	Plastic drum

## Ammonia solution 20% - Special Grade

## Ammonia solution 20% - Special Grade

## RS-Superpure-for trace analysis



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Assay (alkalimetric) 20 + 22 %	Description Clear liquid	
Al <= 1 ppb	As <= 1 ppb	Ag <= 1 ppb
Be <= 1 ppb	Bi <= 1 ppb	Ba <= 1 ppb
Cd <= 1 ppb	Co <= 1 ppb	Ca <= 1 ppb
Cu <= 1 ppb	Fe <= 1 ppb	Cr <= 1 ppb
K <= 1 ppb	Li <= 1 ppb	Hg <= 1 ppb
Mn <= 1 ppb	Mo <= 1 ppb	Mg <= 1 ppb
Ni <= 1 ppb	Pb <= 1 ppb	Na <= 1 ppb
Se <= 1 ppb	Sn <= 1 ppb	Sb <= 1 ppb
Ti <= 1 ppb	V <= 1 ppb	Sr <= 1 ppb
Zr <= 1 ppb	U <= 1 ppb	Zn <= 1 ppb
		Th <= 1 ppb
Colour (APHA) <= 10	Ce <= 0.5 ppb	Cs <= 0.5 ppb
Dy <= 0.5 ppb	Er <= 0.5 ppb	Eu <= 0.5 ppb
Gd <= 0.5 ppb	Ga <= 0.5 ppb	Ge <= 0.5 ppb
Au <= 0.5 ppb	Ho <= 0.5 ppb	In <= 0.5 ppb
La <= 0.5 ppb	Lu <= 0.5 ppb	Nd <= 0.5 ppb
Nb <= 0.5 ppb	Pr <= 0.5 ppb	Rh <= 0.5 ppb
Rb <= 0.5 ppb	Sm <= 0.5 ppb	Sc <= 0.5 ppb
Te <= 0.5 ppb	Tb <= 0.5 ppb	Tl <= 0.5 ppb
Tm <= 0.5 ppb	W <= 0.5 ppb	Yb <= 0.5 ppb
Y <= 0.5 ppb		

Code	Size	Packaging
420172	ml 500	Plastic bottle

For further information on above products, see following product/application section(s)  
Trace metal analysis (p. 86)

## RS-Ultrapur-for trace analysis



Assay (alkalimetric) 20 + 22 %	Description Clear colourless liquid	
Al <= 20 ppt	As <= 10 ppt	Ag <= 10 ppt
Be <= 10 ppt	Bi <= 10 ppt	Ba <= 10 ppt
Cd <= 10 ppt	Co <= 10 ppt	Ca <= 20 ppt
Cu <= 20 ppt	Fe <= 20 ppt	Cr <= 10 ppt
Mg <= 20 ppt	Mn <= 10 ppt	K <= 20 ppt
Ni <= 10 ppt	Pb <= 10 ppt	Na <= 20 ppt
Sr <= 10 ppt	Tl <= 10 ppt	Sn <= 10 ppt
Zn <= 10 ppt	Sb <= 10 ppt	Ti <= 10 ppt
Cs <= 10 ppt	Dy <= 10 ppt	Ce <= 10 ppt
Eu <= 10 ppt	Gd <= 10 ppt	Er <= 10 ppt
Ge <= 10 ppt	Au <= 10 ppt	Ga <= 10 ppt
In <= 10 ppt	La <= 10 ppt	Ho <= 10 ppt
Lu <= 10 ppt	Mo <= 10 ppt	Li <= 10 ppt
Nb <= 10 ppt	Pr <= 10 ppt	Nd <= 10 ppt
Rb <= 10 ppt	Sm <= 10 ppt	Rh <= 10 ppt
Te <= 10 ppt	Tb <= 10 ppt	Sc <= 10 ppt
Tm <= 10 ppt	W <= 10 ppt	Th <= 10 ppt
V <= 10 ppt	Yb <= 10 ppt	U <= 10 ppt
Zr <= 10 ppt		Y <= 10 ppt

Code	Size	Packaging
420161	ml 500	Plastic bottle

For further information on above products, see following product/application section(s)  
Trace metal analysis (p. 86)

## Ammonia solution 10%

Ammoniacca soluzione 10% - Ammoniaque solution 10% - Amonio hidróxido 10%

**NH<sub>4</sub>OH**  
Atomic weight: 35,046  
CAS N: 1336-21-6  
EEC N: 215-647-6

**Transport classification**  
ONU n. 2672  
Transport class: 8  
Packaging group: III



R: 34  
S: 26-36/37/39-45-61

## Ammonia solution 10% - Analytical Grade

## RPE-For analysis



Assay (alkalimetric) 9.5 + 10.5 %	Description Clear colourless liquid	Density at 15° C 0.956 + 0.962
Code	Size	Packaging
420001	ml 1000	Glass bottle

## Ammonium

Ammonio - Ammonium - Amonio

## Ammonium - Special Grade

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Y  
Z

## Ammonium - Special Grade

## RS-Standard solution for ion chromatography



Code	Size	Packaging	Notes
503310	ml 50	Plastic bottle	conc. 1.000 ppm
503311	ml 100	Plastic bottle	conc. 1.000 ppm
503312	ml 250	Plastic bottle	conc. 1.000 ppm
503313	ml 500	Plastic bottle	conc. 1.000 ppm

For further information on above products, see following product/application section(s)  
Chromatography (p. 34)

## Ammonium acetate

Ammonio acetato - Ammonium acétate - Amonio acetato

**CH<sub>3</sub>COONH<sub>4</sub>**

Atomic weight: 77,084

CAS N: 631-61-8

EEC N: 211-162-9

## Ammonium acetate - Analytical Grade

## RPE-ACS-for analysis-Reag. Ph.Eur.-Reag. USP



Assay (acc.to Sörensen) >=97 %	Description White crystals	pH sol. 5% at 25° C 6.7 + 7.3
Water-insoluble matter <=50 ppm	Residue on ignition <=100 ppm	Chloride <=5 ppm
Nitrate <=10 ppm	Sulphate <=10 ppm	Heavy metals (Pb) <=5 ppm
Fe <=5 ppm		

Code	Size	Packaging
418776	g 500	Plastic jar
418777	g 1000	Plastic jar
418772	g 5000	Plastic bottle
418774	kg 50	Fibre drum

## Ammonium acetate - Technical Grade

## RE-Pure



Assay (non-aqueous medium) >= 97.5 % (s.s.)	Description White semitransparent crystals	Water <= 2 %
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Code	Size	Packaging
313507	g 1000	Plastic jar
313504	kg 50	Carton drum

## Ammonium bromide

Ammonio bromuro - Ammonium bromure - Amonio bromuro

**NH<sub>4</sub>Br**

Atomic weight: 97,948

CAS N: 12124-97-9

EEC N: 235-183-8

## Ammonium bromide - Analytical Grade

## RPE-ACS-for analysis



Assay (argentimetric) >=99.0 %	Description White crystalline powder	pH sol. 5% at 25° C 4.5 + 6.0
Water-insoluble matter <=50 ppm	Residue on ignition <=100 ppm	Bromate <=20 ppm
Chloride <=0.2 %	Iodide Conform	Sulphate <=50 ppm
Heavy metals (Pb) <=5 ppm	Ba <=20 ppm	Fe <=5 ppm

Code	Size	Packaging
419175	g 250	Plastic jar
419177	g 1000	Plastic jar

## Ammonium bromide - Technical Grade

## RE-Pure



Assay (argentimetric) >=99.0 %	Description White crystalline powder	Sulphated ash <=500 ppm
Chloride <=0.2 %	Sulphate <=500 ppm	Fe <=5 ppm

Code	Size	Packaging
313801	kg 50	Fibre drum

## Ammonium carbamate

Ammonio carbammato - Ammonium carbamate - Amonio carbamato

**NH<sub>2</sub>COONH<sub>4</sub>**

Atomic weight: 78,071

CAS N: 1111-78-0

EEC N: 214-185-2



R: 22

## Ammonium carbamate - Analytical Grade



## Ammonium carbamate - Analytical Grade



## RPE-For analysis

Assay (alkalimetric) >= 99.5 %	Description Pezzi irregolari bianchi	Chloride <= 5 ppm
Phosphate <= 5 ppm	Nitrate <= 10 ppm	Ca <= 10 ppm
Cu <= 5 ppm	Fe <= 5 ppm	K <= 50 ppm
Mg <= 5 ppm	Na <= 50 ppm	Ni <= 5 ppm
Pb <= 5 ppm	Zn <= 5 ppm	Sulphate <= 10 ppm
Cd <= 5 ppm	Co <= 5 ppm	Cr <= 5 ppm
Mn <= 5 ppm	Residue on calcination <= 20 ppm	

Code	Size	Packaging
419202	g 1000	Plastic jar
419203	kg 25	Fibre drum

## Ammonium carbonate

Ammonio carbonato - Ammonium carbonate - Amonio carbonato

CH<sub>4</sub>NO<sub>3</sub>

Atomic weight: 79,060  
CAS N: 10361-29-2  
EEC N: 233-786-0

## Ammonium carbonate - Analytical Grade



## RPE-ACS-for analysis-Reag. Ph.Eur.-Reag. USP

Assay (alkalimetric) >=30.0 %	Description White crystals	Water-insoluble matter <=50 ppm
Non volat. substances <=100 ppm	Chloride <=5 ppm	Total sulphur <=20 ppm
Heavy metals (Pb) <=5 ppm	Fe <=5 ppm	

Code	Size	Packaging
419237	g 1000	Plastic jar
419239	g 5000	Plastic jar
419234	kg 50	Carton drum

## Ammonium carbonate - Pharmaceutical Grade

## RPH-According to pharmacopoeia: NF



Assay (acidimetric) 30.0 + 34.0 % (NH <sub>3</sub> )	Description White crystalline powder	Sulphated ash <=0.1 %
Chloride <=35 ppm	Sulphate <=50 ppm	Heavy metals (Pb) <=10 ppm
Origin (BSE/TSE) Synthesis	Residual solvents (CPMP/ICH/283/95) Conform	

Code	Size	Packaging
313887	g 1000	Plastic jar
313887	g 1000	Plastic jar
313889	g 5000	Plastic jar
313884	kg 50	Sack

## Ammonium carbonate solution 20% in water

CH<sub>4</sub>NO<sub>3</sub>

Atomic weight: 79,060  
CAS N: 10361-29-2  
EEC N: 233-786-0



R: 36/37/38  
S: 7-26

## Ammonium carbonate solution 20% in water - Analytical Grade

## RPE-For analysis



Description Clear colourless liquid	Density at 15° C 1.065 + 1.075
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Code	Size	Packaging
419261	ml 1000	Plastic bottle

## Ammonium chloride

Ammonio cloruro - Ammonium chlorure - Amonio cloruro

NH<sub>4</sub>Cl

Atomic weight: 53,492  
CAS N: 12125-02-9  
EEC N: 235-186-4



R: 22-36  
S: 22

## Ammonium chloride - Analytical Grade

## PA-PUREX-for analysis



Assay >= 99.7 %	Ash <= 0.25 %	Iron (Fe) <= 3 mg/Kg
Water content <= 0.1 % m/m	NaCl <= 0.2 %	

Code	Size	Packaging
P1440517	g 1000	Plastic jar
P1440527	g 5000	Metal bucket

A

## Ammonium chloride - Analytical Grade

## RPE-ACS-for analysis-Reag. Ph.Eur.-Reag. USP



Assay (argentimetric) >=99.5 %	Description White crystalline powder	pH sol. 5% at 25° C 4.5 + 5.5
Water-insoluble matter <=50 ppm	Residue on calcination <=100 ppm	Phosphate <=2 ppm
Sulphate <=20 ppm	Heavy metals (Pb) <=5 ppm	Ca <=10 ppm
Fe <=2 ppm	Mg <=5 ppm	

Code	Size	Packaging
419416	g 500	Plastic jar
419417	g 1000	Plastic jar
419419	g 5000	Plastic jar
419412	kg 25	Fibre drum
419414	kg 50	Carton drum

B

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## Ammonium chloride - Pharmaceutical Grade

## RPH-According to pharmacopoeia: Ph.Eur.-USP-FU-Ph.Franc.-BP-DAB



Assay (argentimetric) 99.5 + 100.5 % s.s.	Description White crystalline powder	Appearance of solution Conform Ph.Eur.
Acidity or alkalinity Conform Ph.Eur.	Bromide and Iodide Conform Ph.Eur.	Thiocyanate Conform USP-NF
pH (1:20) 4.6 + 6.0	Loss on drying <=0.5 %	Sulphated ash <=0.1 %
Heavy metals (Pb) <=10 ppm	Sulphate <=150 ppm	Ca <=200 ppm
Fe <=20 ppm	Origin (BSE/TSE) Synthesis	Residual solvents (CPMP/ICH/283/95) Conform

Code	Size	Packaging
313957	g 1000	Plastic jar
313952	g 2500	Plastic jar
313954	kg 50	Fibre drum

G

H

I

## Ammonium chloride powder

Ammonio cloruro polvere - Ammonium chlorure en poudre - Amonio cloruro en polvo

NH<sub>4</sub>Cl

Atomic weight: 53,492

CAS N: 12125-02-9

EEC N: 235-186-4

R: 22-36  
S: 22

J

K

L

## Ammonium chloride powder - Technical Grade

## RE-Pure



Assay (argentimetric) >= 99 %	Description Polvere crist. bianca parz. ammassata	Water (K.F.) <= 0.1 %
Not soluble matter <= 0.02 %	Sulphated ash <= 0.3 %	Fe <= 10 ppm

Code	Size	Packaging
314002	g 2500	Plastic jar
314004	kg 50	Sack

M

N

## Ammonium chloride solution 10% in water

Ammonio cloruro soluzione 10% in acqua - Ammonium chlorure en solution à 10% dans l'eau - Amonio cloruro solución 10% en agua

NH<sub>4</sub>Cl

Atomic weight: 53,492

CAS N: 12125-02-9

EEC N: 235-186-4

P

Q

## Ammonium chloride solution 10% in water - Analytical Grade

## RPE-For analysis



Assay 9.5 + 10.5 %	Description Clear colourless liquid	Density at 20° C 1.025 + 1.031
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Code	Size	Packaging
419531	ml 1000	Plastic bottle

S

T

## tri-Ammonium citrate

Ammonio citrato tribasico - tri-Ammonium citrate - Tri-amonio citrato

HOC(CO<sub>2</sub>NH<sub>4</sub>)(CH<sub>2</sub>CO<sub>2</sub>NH<sub>4</sub>)<sub>2</sub>

Atomic weight: 243,22

CAS N: 3458-72-8

U

V

## tri-Ammonium citrate - Technical Grade

## RE-Pure



Assay >= 97 %	Description White crystalline powder	Chloride <= 20 ppm
Sulphate <= 70 ppm	Fe <= 20 ppm	

Code	Size	Packaging
313895	kg 25	Drum

W

X

Y

Z

## Ammonium citrate solution 20% in water

Ammonio citrato soluzione 20% in acqua - Ammonium citrate en solution à 20% dans l'eau - Amonio citrato solución 20% en agua

 $\text{HOC}(\text{CO}_2\text{H})(\text{CH}_2\text{CO}_2\text{NH}_4)_2$ 

Atomic weight: 226,190

CAS N: 3012-65-5

EEC N: 221-146-3

## Ammonium citrate solution 20% in water - Analytical Grade

## RPE-For analysis



Assay 19 + 21 %	Description Clear colourless liquid	pH of the substance 7 + 7.3
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Code	Size	Packaging
419361	ml 1000	Plastic bottle

For the analysis of perphosphates

## Ammonium dichromate

Ammonio bicromato - Ammonium dichromate - Amonio dicromato

 $\text{Na}_2\text{H}_2\text{Cr}_2\text{O}_7$ 

Atomic weight: 252,06

CAS N: 7789-09-5

EEC N: 232-143-1

Transport classification

ONU n. 1439

Transport class: 5.1

Packaging group: II



R: 45-46-60-61-2-8-21-25-26-34-42

S: 53-45-60-61

Synonyms

Ammonium bichromate

## Ammonium dichromate - Analytical Grade

## RPE-For analysis



Assay (iodometric) >= 99 %	Description Orange crystalline powder	Water-insoluble matter <= 50 ppm
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Chloride <= 10 ppm	Sulphate <= 100 ppm	Ca <= 20 ppm
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K + Na <= 0.1 %		
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Code	Size	Packaging
418975	g 250	Plastic jar
418977	g 1000	Plastic jar

## Ammonium dichromate - Technical Grade

## RE-Pure



Assay (oxidimetric) >=98 %	Description Orange crystals	Chloride <=100 ppm
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Water-insoluble matter <=100 ppm	Sulphate <=200 ppm	Ca <=100 ppm
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Code	Size	Packaging
313757	g 1000	Plastic jar
313759	g 5000	Plastic jar

## Ammonium dihydrogen phosphate

Ammonio fosfato monobasico - Ammonium phosphate monobasique - Amonio fosfato monobásico

 $\text{NH}_4\text{H}_2\text{PO}_4$ 

Atomic weight: 115,03

CAS N: 7722-76-1

EEC N: 231-764-5

## Ammonium dihydrogen phosphate - Analytical Grade

## RPE-ACS-for analysis



Assay (acidimetric) >= 98.0 %	Description White crystals	pH sol. 5% at 25° C 3.8 + 4.4
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Chloride <= 5 ppm	Water-insoluble matter <= 50 ppm	Heavy metals (Pb) <= 5 ppm
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Nitrate <= 10 ppm	Sulphate <= 100 ppm	Ca <= 10 ppm
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Mg <= 5 ppm	Fe <= 10 ppm	K <= 50 ppm
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Na <= 50 ppm		
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Code	Size	Packaging
419786	g 500	Plastic jar
419787	g 1000	Plastic jar

## Ammonium dihydrogen phosphate - Technical Grade

## RE-Pure



Assay (acidimetric) >=98 %	Description White crystals	pH sol. 5% at 25° C 3.7 + 4.3
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Chloride <=100 ppm	Water-insoluble matter <=100 ppm	Heavy metals (Pb) <=50 ppm
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Sulphate <=100 ppm	As <=2 ppm	Fe <=50 ppm
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Code	Size	Packaging
314507	g 1000	Plastic jar
314506	g 10000	Plastic jar

314504	kg 25	Sack
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314503	kg 50	Fibre drum
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A

## Ammonium eptamolybdate

*Ammonio eptamolibdato - Ammonium heptamolybdate - Amonio heptamolibdato*

**(NH<sub>4</sub>)<sub>7</sub>Mo<sub>7</sub>O<sub>24</sub>·4H<sub>2</sub>O**  
 Atomic weight: 1235,860  
 CAS N: 12054-85-2  
 EEC N: 234-320-9

**Transport classification**  
 ONU n. NA

  
 R: 20/22  
 S: 7-45

B

C

## Ammonium eptamolybdate - Analytical Grade

## PA-PUREX-for analysis

sds

Molybdenum (Mo) >= 54.3 %  
 Aluminium (Al) <= 10 mg/Kg

Iron (Fe) <= 10 mg/Kg  
 Lead (Pb) <= 5 mg/Kg

Calcium (Ca) <= 10 mg/Kg  
 Alkaline materials <= 70 mg/Kg

Code	Size	Packaging
P1710517	g 1000	Plastic jar

D

E

F

## Ammonium fluoride

*Ammonio fluoruro - Ammonium fluorure - Amonio fluoruro*

**NH<sub>4</sub>F**  
 Atomic weight: 37,037  
 CAS N: 12125-01-8  
 EEC N: 235-185-9

**Transport classification**  
 ONU n. 2505  
 Transport class: 6.1  
 Packaging group: III

  
 R: 23/24/25  
 S: 26-45

G

H

## Ammonium fluoride - Analytical Grade

## RPE-ACS-for analysis

CARLO ERBA  
Quality since 1869

Assay (acc.to Sørensen) >=98.0 %  
 Residue on ignition <=100 ppm  
 Heavy metals (Pb) <=5 ppm

Description White crystals  
 Chloride <=10 ppm  
 Fe <=5 ppm

Water-insoluble matter <=50 ppm  
 Sulphate <=50 ppm

Code	Size	Packaging
419638	g 250	Plastic jar
419637	g 1000	Plastic jar
419636	g 10000	Tank

I

J

K

L

## Ammonium fluoride solution 40% in water

*Ammonio fluoruro soluzione 40% in acqua - Ammonium fluorure en solution à 40% dans l'eau - Amonio fluoruro solución 40% en agua*

**NH<sub>4</sub>F**  
 Atomic weight: 37,037  
 CAS N: 12125-01-8  
 EEC N: 235-185-9

**Transport classification**  
 ONU n. 3287  
 Transport class: 6.1  
 Packaging group: III

  
 R: 23/24/25  
 S: 26-45

M

N

## Ammonium fluoride solution 40% in water - Special Grade

## RS-MOS For electronic use-ERBATRON

CARLO ERBA  
Quality since 1869

Assay (acc.to Sørensen) 39 + 41 %  
 Density at 20° C 1.10 + 1.12  
 Chloride <=4 ppm  
 Nitrate <=10 ppm  
 Al <=0.5 ppm  
 B <=0.1 ppm  
 Bi <=0.05 ppm  
 Co <=0.05 ppm  
 Fe <=0.5 ppm  
 K <=0.1 ppm  
 Mn <=0.05 ppm  
 Ni <=0.05 ppm  
 Sb <=0.03 ppm  
 Ta <=0.1 ppm  
 V <=0.1 ppm

Description Clear liquid  
 pH of the substance 7.4 + 8.2  
 Phosphate <=0.4 ppm  
 Total sulphur <=2 ppm  
 As <=0.03 ppm  
 Ba <=0.1 ppm  
 Ca <=0.5 ppm  
 Cr <=0.05 ppm  
 Ga <=0.1 ppm  
 Li <=0.1 ppm  
 Mo <=0.05 ppm  
 Pb <=0.3 ppm  
 Sn <=0.1 ppm  
 Ti <=0.05 ppm  
 Zn <=0.1 ppm

Colour (APHA) <=10  
 Residue on calcination <=10 ppm  
 Heavy metals (Pb) <=1 ppm  
 Ag <=0.05 ppm  
 Au <=0.05 ppm  
 Be <=0.05 ppm  
 Cd <=0.1 ppm  
 Cu <=0.1 ppm  
 In <=0.05 ppm  
 Mg <=0.3 ppm  
 Na <=0.3 ppm  
 Pt <=0.05 ppm  
 Sr <=0.1 ppm  
 Tl <=0.05 ppm  
 Zr <=0.05 ppm

Code	Size	Packaging
419663	ml 1000	Plastic bottle

Minimum order: 48 bottles

O

P

Q

R

S

T

U

V

W

X

Y

Z

## Ammonium fluoride solution 40% in water - Special Grade



## RS-RSE For electronic use-ERBATRON

Assay (acc.to Sörensen) 39 ± 41 %	Description Clear liquid	Colour (APHA) ≤10
Density at 20° C 1.10 ± 1.12	pH of the substance 7.4 ± 8.2	Residue on calcination ≤10 ppm
Chloride ≤4 ppm	Phosphate ≤0.4 ppm	Heavy metals (Pb) ≤1 ppm
Nitrate ≤10 ppm	Total sulphur ≤2 ppm	Ag ≤0.05 ppm
Al ≤0.5 ppm	As ≤0.03 ppm	Au ≤0.05 ppm
B ≤0.1 ppm	Ba ≤0.1 ppm	Be ≤0.05 ppm
Bi ≤0.05 ppm	Ca ≤0.5 ppm	Cd ≤0.1 ppm
Co ≤0.05 ppm	Cr ≤0.05 ppm	Cu ≤0.1 ppm
Fe ≤0.5 ppm	Ga ≤0.1 ppm	In ≤0.05 ppm
K ≤0.1 ppm	Li ≤0.1 ppm	Mg ≤0.3 ppm
Mn ≤0.05 ppm	Mo ≤0.05 ppm	Na ≤0.3 ppm
Ni ≤0.05 ppm	Pb ≤0.3 ppm	Pt ≤0.05 ppm
Sb ≤0.03 ppm	Sn ≤0.1 ppm	Sr ≤0.1 ppm
Ta ≤0.1 ppm	Ti ≤0.05 ppm	Tl ≤0.05 ppm
V ≤0.1 ppm	Zn ≤0.1 ppm	Zr ≤0.05 ppm

Code	Size	Packaging
419653	ml 1000	Plastic bottle
419655	ml 5000	Plastic bottle
419652	kg 25	Plastic drum

## Ammonium formate

Ammonio formiato - Ammonium formiate - Amonio formiato

HCOONH<sub>4</sub>

Atomic weight: 63,056  
CAS N: 540-69-2  
EEC N: 208-753-9

## Ammonium formate - Analytical Grade



## RPE-For analysis

Assay (acc.to Sörensen) ≥ 98.0 %	Description Colourless crystals	pH sol. 5% at 25° C 5.5 ± 7.0
Water ≤ 0.5 %	Chloride ≤ 5 ppm	Sulphate ≤ 10 ppm
Water-insoluble matter ≤ 50 ppm	Heavy metals (Pb) ≤ 5 ppm	Fe ≤ 5 ppm
Melting point 119 ± 121 °C		

Code	Size	Packaging
419735	g 250	Plastic jar
419737	g 1000	Plastic jar
419733	kg 25	Carton drum

## Ammonium hydrogen carbonate

Ammonio bicarbonato - Ammonium bicarbonate - Amonio bicarbonato

NH<sub>4</sub>HCO<sub>3</sub>

Atomic weight: 79,06  
CAS N: 1066-33-7  
EEC N: 213-911-5

## Ammonium hydrogen carbonate - Analytical Grade



## RPE-For analysis

Assay (acidimetric) ≥98.5 %	Description White crystalline powder	pH sol. 5% at 25° C 7.0 ± 8.0
Chloride ≤5 ppm	Phosphate ≤5 ppm	Water-insoluble matter ≤30 ppm
Sulphate ≤50 ppm	Residue on ignition ≤500 ppm	As ≤1 ppm
Ca ≤100 ppm	Cu ≤10 ppm	Fe ≤10 ppm
K ≤10 ppm	Mg ≤10 ppm	Na ≤20 ppm
Ni ≤10 ppm	Pb ≤10 ppm	

Code	Size	Packaging
418927	g 1000	Plastic jar
418929	g 5000	Plastic jar

## Ammonium hydrogen carbonate - Technical Grade

## RE-Pure



Assay (acidimetric) ≥99 %	Description White crystalline powder	Sulphated ash ≤500 ppm
Chloride ≤50 ppm	Sulphate ≤150 ppm	

Code	Size	Packaging
313601	g 5000	Plastic jar
313602	kg 50	Fibre drum

## di-Ammonium hydrogen citrate

Ammonio citrato dibasico - Ammonium citrate dibasique - Amonio citrato dibásico

HOCCOOH(CH<sub>2</sub>COONH<sub>4</sub>)<sub>2</sub>

Atomic weight: 226,19  
CAS N: 3012-65-5  
EEC N: 221-146-3

## di-Ammonium hydrogen citrate - Analytical Grade

A

## di-Ammonium hydrogen citrate - Analytical Grade



## RPE-ACS-for analysis

Assay (acc.to Sörensen) 98.0 + 103.0 %  
Residue on ignition <= 100 ppm  
Oxalate <= 500 ppm  
Fe <= 10 ppm

Description White crystals  
Chloride <= 10 ppm  
Total sulphur <= 50 ppm

Water-insoluble matter <= 50 ppm  
Phosphate <= 5 ppm  
Heavy metals (Pb) <= 5 ppm

Code	Size	Packaging
419315	g 250	Plastic jar
419317	g 1000	Plastic jar
419316	kg 50	Fibre drum

B

C

D

E

## Ammonium hydrogen difluoride

Ammonio bifluoruro - Ammonium bifluorure - Amonio bifluorure

NH<sub>4</sub>F.HF

Atomic weight: 57,043  
CAS N: 1341-49-7  
EEC N: 215-676-4

Transport classification  
ONU n. 1727  
Transport class: 8  
Packaging group: II



R: 25-34  
S: 22-26-37-45

F

G

## Ammonium hydrogen difluoride - Technical Grade



## RE-Pure

Assay (acidimetric) >= 94 %  
Sulphate <= 2000 ppm  
Fe <= 500 ppm

Description White flakes  
Sulphite <= 100 ppm

Water (K.F.) <= 0.5 %  
Heavy metals (Pb) <= 200 ppm

Code	Size	Packaging
314261	g 1000	Plastic jar
314263	kg 25	Carton drum

H

I

J

## Ammonium hydrogen oxalate

Ammonio ossalato acido - Ammonium oxalate acide - Amonio oxalato acido

NH<sub>4</sub>HC<sub>2</sub>O<sub>4</sub>.H<sub>2</sub>O

Atomic weight: 116,07  
CAS N: 37541-72-3



R: 21/22  
S: 24/25

K

L

M

## Ammonium hydrogen oxalate - Analytical Grade



## RPE-For analysis

Assay (oxidimetric) >=99.5 %  
Total phosphorus <=5 ppm  
Nitrate <=5 ppm  
Al <=5 ppm  
Cu <=1 ppm  
Ni <=1 ppm

Description White crystals  
Water-insoluble matter <=50 ppm  
Residue on ignition <=50 ppm  
As <=0.2 ppm  
Fe <=2 ppm  
Pb <=1 ppm

Chloride <=25 ppm  
Heavy metals (Pb) <=2 ppm  
Total sulphur <=20 ppm  
Ca <=5 ppm  
Mg <=10 ppm  
Zn <=1 ppm

Code	Size	Packaging
420575	g 250	Plastic jar

N

O

P

Q

## di-Ammonium hydrogen phosphate

Ammonio fosfato bibasico - Ammonium phosphate dibasique - Amonio fosfato dibásico

(NH<sub>4</sub>)<sub>2</sub>HPO<sub>4</sub>

Atomic weight: 132,06  
CAS N: 7783-28-0  
EEC N: 231-987-8

R

S

## di-Ammonium hydrogen phosphate - Analytical Grade



## RPE-ACS-for analysis

Assay (alkalimetric) >= 98.0 %  
Water-insoluble matter <= 50 ppm  
Nitrate <= 30 ppm  
K <= 50 ppm  
Mg <= 5 ppm

Description White crystals  
Sulphate <= 100 ppm  
Heavy metals (Pb) <= 10 ppm  
Na <= 50 ppm

pH sol. 5% at 25° C 7.7 + 8.1  
Chloride <= 10 ppm  
Fe <= 10 ppm  
Ca <= 10 ppm

Code	Size	Packaging
419836	g 500	Plastic jar
419837	g 1000	Plastic jar
419831	g 5000	Plastic jar
419834	kg 50	Fibre drum

T

U

V

W

X

Y

Z

## di-Ammonium hydrogen phosphate - Technical Grade

## di-Ammonium hydrogen phosphate - Technical Grade

## RE-Pure



Assay (alkalimetric)  $\geq 99.5\%$   
Description White crystals  
Water-insoluble matter  $\leq 0.08\%$

Assay as phosphorus pentoxide  $52.8 + 54.2\%$   
pH solution  $1\% 7.6 + 8.2$

Assay as nitrogen  $20.2 + 21.4\%$   
Loss on drying  $60^\circ\text{C} \leq 0.15\%$

Code	Size	Packaging
314757	g 1000	Plastic jar
314758	g 2500	Plastic jar
314754	kg 50	Carton drum

## di-Ammonium hydrogen phosphate 20 g/L solution

Ammonio diidrogeno fosfato 20 g/L soluzione - Ammonium dihydrogénophosphate 20 g/L - di-Amonio Hidrógeno Fosfato solución 20 g/l

**NH<sub>4</sub>H<sub>2</sub>PO<sub>4</sub>**  
Atomic weight: 115,030  
CAS N: 7722-76-1  
EEC N: 231-764-5

## di-Ammonium hydrogen phosphate 20 g/L solution - Special Grade

## RS-Matrix modifiers for AAS-GTA



Code	Size	Packaging	Notes
503194	50 ml	Plastic bottle	Matrice: Nitric acid (HNO <sub>3</sub> ), conc. 20 g/L

For further information on above products, see following product/application section(s)  
Trace metal analysis (p. 86)

## Ammonium hydrogen sulphate

Ammonio bisolfato - Ammonium bisulfate - Amonio bisulfato

**NH<sub>4</sub>HSO<sub>4</sub>**  
Atomic weight: 115,11  
CAS N: 7803-63-6  
EEC N: 232-265-5

Transport classification  
ONU n. 2506  
Transport class: 8  
Packaging group: II



R: 34  
S: 26-45

## Ammonium hydrogen sulphate - Analytical Grade

## RPE-For analysis



Assay (acidimetric)  $\geq 98\%$   
Phosphate  $\leq 3$  ppm  
Nitrate  $\leq 10$  ppm  
As  $\leq 0.2$  ppm  
Fe  $\leq 2$  ppm  
Na  $\leq 50$  ppm  
Zn  $\leq 1$  ppm

Description White crystals  
Water-insoluble matter  $\leq 10$  ppm  
Residue on ignition  $\leq 50$  ppm  
Ca  $\leq 10$  ppm  
K  $\leq 10$  ppm  
Ni  $\leq 1$  ppm

Chloride  $\leq 2$  ppm  
Heavy metals (Pb)  $\leq 2$  ppm  
Al  $\leq 10$  ppm  
Cu  $\leq 1$  ppm  
Mg  $\leq 5$  ppm  
Pb  $\leq 1$  ppm

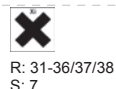
Code	Size	Packaging
419027	g 1000	Plastic jar

## Ammonium hydrogen sulphite solution 70% in water

Ammonio bisolfito soluzione 70% in acqua - Ammonium bisulfite en solution à 70% dans l'eau - Amonio bisulfito solución 70% en agua

**NH<sub>4</sub>HSO<sub>3</sub>**  
Atomic weight: 99,109  
CAS N: 10192-30-0  
EEC N: 233-469-7

Transport classification  
ONU n. 2693  
Transport class: 8  
Packaging group: III



R: 31-36/37/38  
S: 7

## Ammonium hydrogen sulphite solution 70% in water - Analytical Grade

## RPE-For analysis



Assay (oxidimetric)  $\geq 70\%$   
Chloride  $\leq 10$  ppm  
Residue on ignition  $\leq 20$  ppm  
Cu  $\leq 2$  ppm  
Na  $\leq 50$  ppm  
Zn  $\leq 4$  ppm

Description Clear yellow liquid  
Phosphate  $\leq 2$  ppm  
Silicate  $\leq 50$  ppm  
Fe  $\leq 10$  ppm  
Ni  $\leq 2$  ppm

pH 10% at  $25^\circ\text{C}$   $4.0 + 5.0$   
Heavy metals (Pb)  $\leq 10$  ppm  
As  $\leq 0.5$  ppm  
K  $\leq 50$  ppm  
Pb  $\leq 2$  ppm

Code	Size	Packaging
419071	ml 1000	Glass bottle

## Ammonium hydrogen tetraborate

Ammonio tetraborato - Ammonium tétraborate - Amonio tetraborato

**NH<sub>4</sub>HB<sub>4</sub>O<sub>7</sub>·5H<sub>2</sub>O**  
Atomic weight: 228,33  
CAS N: 12007-58-8  
EEC N: 234-513-8

## Ammonium hydrogen tetraborate - Analytical Grade

A

## Ammonium hydrogen tetraborate - Analytical Grade

## RPE-For analysis



<b>Assay (ex ammonium) 97 + 105 %</b>	<b>Assay(ex Boric acid) 97 + 105 %</b>	Description White crystalline powder
pH sol. 5% at 25° C 7.5 + 8.5	Carbonate <=20 ppm	Chloride <=3 ppm
Phosphate <=10 ppm	Water-insoluble matter <=30 ppm	Heavy metals (Pb) <=10 ppm
Nitrate <=5 ppm	Sulphate <=30 ppm	As <=1 ppm
Ca <=50 ppm	Fe <=2 ppm	K <=50 ppm
Mg <=20 ppm	Na <=50 ppm	

Code	Size	Packaging
419127	g 1000	Plastic jar
419123	kg 25	Fibre drum

B

C

D

E

## Ammonium iodide

Ammonio ioduro - Ammonium iodure - Amonio yoduro

NH<sub>4</sub>I

Atomic weight: 144,94  
CAS N: 12027-06-4  
EEC N: 234-717-7

## Ammonium iodide - Analytical Grade

## RPE-ACS-for analysis



<b>Assay (oxidimetric) &gt;= 99.0 %</b>	Description White granules	Residue on ignition <= 0.05 %
Chloride + bromide (Cl) <= 50 ppm	Water-insoluble matter <= 50 ppm	Phosphate <= 10 ppm
Heavy metals (Pb) <= 10 ppm	Ba <= 20 ppm	Fe <= 5 ppm
Sulphate <= 0.05 %		

Code	Size	Packaging
420133	g 50	Glass jar
420135	g 250	Glass jar

Stabilized with ~1,5% of NH<sub>4</sub>H<sub>2</sub>PO<sub>2</sub>.

F

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I

J

K

## Ammonium ironsulphate 0,12 N

Ammonio ferrosolfato 0,12 N - Fer II ammonium sulfate 0,12N - Amonio Hierro II sulfato 0,12 N

**Fe(NH<sub>4</sub>)<sub>2</sub>(SO<sub>4</sub>)<sub>6</sub>·6H<sub>2</sub>O**  
Atomic weight: 392,140  
CAS N: 7783-85-9  
EEC N: 233-151-8

## Ammonium ironsulphate 0,12 N - Special Grade

## RS-For enviromental analysis (COD determination)



Code	Size	Packaging
526761	ml 1000	Glass bottle

For further information on above products, see following product/application section(s)  
Special products for enviromental analysis (p. 81)

L

M

N

O

## Ammonium metavanadate

Ammonio metavanadato - Ammonium métavanadate - Amonio metavanadato

NH<sub>4</sub>VO<sub>3</sub>

Atomic weight: 116,98  
CAS N: 7803-55-6  
EEC N: 232-261-3

## Transport classification

ONU n. 2859  
Transport class: 6.1  
Packaging group: II



R: 28-36/37/38  
S: 45

## Ammonium metavanadate - Analytical Grade

## RPE-For analysis



<b>Assay (oxidimetric) &gt;= 99.5 %</b>	Description Yellowish powder	Chloride <= 20 ppm
Fe <= 10 ppm	Cd <= 10 ppm	Co <= 20 ppm
Cu <= 10 ppm	Ni <= 20 ppm	Pb <= 20 ppm
Zn <= 10 ppm	Phosphate <= 50 ppm	Sulphate <= 100 ppm

Code	Size	Packaging
420184	g 100	Plastic jar
420186	g 500	Plastic jar

P

Q

R

S

T

## Ammonium molybdate

Ammonio molibdato - Ammonium molybdate - Amonio molibdato

**(NH<sub>4</sub>)<sub>6</sub>Mo<sub>7</sub>O<sub>24</sub>·4H<sub>2</sub>O**  
Atomic weight: 1235,86  
CAS N: 12054-85-2  
EEC N: 234-320-9



R: 20/22  
S: 7-45

Synonymes  
Ammonium heptamolybdate

## Ammonium molybdate - Analytical Grade

U

V

W

X

Y

Z



## Ammonium molybdate - Analytical Grade

## RPE-ACS-ISO-for analysis-Reag. Ph.Eur.-Reag. USP



Assay (oxidimetric) 81.0 + 83.0 % (MoO <sub>3</sub> )	Description Green crystals	Water-insoluble matter ≤ 50 ppm
Arsenate, phosphate and silicate (SiO <sub>2</sub> ) ≤ 10 ppm	Chloride ≤ 20 ppm	Phosphate ≤ 5 ppm
Nitrate ≤ 30 ppm	Sulphate ≤ 200 ppm	Heavy metals (Pb) ≤ 10 ppm
K ≤ 100 ppm	Na ≤ 100 ppm	Mg ≤ 50 ppm

Code	Size	Packaging
420234	g 100	Glass jar
420236	g 500	Plastic jar
420238	g 2500	Plastic jar

## Ammonium molybdate - Special Grade

## RS-For microanalysis



Assay (complexometric) 81.0 + 83.0 %	Description White crystalline powder	Water-insoluble matter ≤ 0.005 %
Nitrate ≤ 0.003 %	AsO <sub>4</sub> , PO <sub>4</sub> , SiO <sub>4</sub> (SiO <sub>2</sub> ) ≤ 0.001 %	Chloride ≤ 20 ppm
Sulphate ≤ 200 ppm	Phosphate ≤ 5 ppm	Heavy metals (Pb) ≤ 10 ppm
K ≤ 100 ppm	Mg ≤ 50 ppm	Na ≤ 100 ppm

Code	Size	Packaging
420391	g 100	Glass jar

## Ammonium molybdate solution 2.5% in nitric acid

(NH<sub>4</sub>)<sub>6</sub>Mo<sub>7</sub>O<sub>24</sub>·4H<sub>2</sub>O  
Atomic weight: 1235,860  
CAS N: 12054-85-2  
EEC N: 234-320-9

Transport classification  
ONU n. 2031  
Transport class: 8  
Packaging group: II



R: 35  
S: 23-26-27-45

## Ammonium molybdate solution 2.5% in nitric acid - Analytical Grade

## RPE-For analysis



Description Clear liquid	Density at 20° C 1.0 ± 1.2
--------------------------	----------------------------

Code	Size	Packaging
420371	ml 1000	Glass bottle

## Ammonium molybdate solution 5% in water

Ammonio molibdato soluzione 5% in acqua - Ammonium molybdate en solution à 5% dans l'eau - Amonio molibdato solución 5% en agua

(NH<sub>4</sub>)<sub>6</sub>Mo<sub>7</sub>O<sub>24</sub>·4H<sub>2</sub>O  
Atomic weight: 1235,860  
CAS N: 12054-85-2  
EEC N: 234-320-9

## Ammonium molybdate solution 5% in water - Analytical Grade

## RPE-For analysis



Description Clear colourless liquid	Density at 20° C 1.02 ± 1.04
-------------------------------------	------------------------------

Code	Size	Packaging
420321	ml 1000	Glass bottle

## Ammonium nitrate

Ammonio nitrate - Ammonium nitrate - Amonio nitrate

NH<sub>4</sub>NO<sub>3</sub>  
Atomic weight: 80,043  
CAS N: 6484-52-2  
EEC N: 229-347-8

Transport classification  
ONU n. 1942  
Transport class: 5.1  
Packaging group: III



R: 8-9  
S: 15-16-41

## Ammonium nitrate - Analytical Grade

## RPE-ACS-ISO-for analysis



Assay (alkalimetric) ≥ 95 %	Description White crystals	pH sol. 5% at 25° C 4.5 + 6.0
Water-insoluble matter ≤ 50 ppm	Residue on ignition ≤ 100 ppm	Chloride ≤ 5 ppm
Phosphate ≤ 5 ppm	Nitrite ≤ 5 ppm	Sulphate ≤ 20 ppm
Heavy metals (Pb) ≤ 5 ppm	Fe ≤ 2 ppm	Acidity Conform

Code	Size	Packaging
420427	g 1000	Plastic jar
420429	g 5000	Plastic jar
420424	kg 50	Carton drum

## Ammonium nitrate - Technical Grade

A

## Ammonium nitrate - Technical Grade

## RE-Pure



Assay (acc.to Sörensen) &gt;=97 %

Description White pellets

pH sol. 5% at 25° C 4.0 + 7.0

Chloride &lt;=500 ppm

Residue on ignition &lt;=0.5 %

Sulphate &lt;=500 ppm

Fe &lt;=100 ppm

Code	Size	Packaging
315509	g 5000	Plastic jar
315504	kg 50	Fibre drum

B

C

D

## Ammonium nitrate 50 mg/L solution

Ammonio nitrato 50 mg/L soluzione - Ammonium nitrate 50 mg/L - Amonio nitrato 50 mg/L solución

NH<sub>4</sub>NO<sub>3</sub>

Atomic weight: 80,043

CAS N: 6484-52-2

EEC N: 229-347-8

## Ammonium nitrate 50 mg/L solution - Special Grade

## RS-Matrix modifiers for AAS-GTA



Code	Size	Packaging	Notes
503195	50 ml	Plastic bottle	Matrice: Water (H <sub>2</sub> O), conc. 50 g/L

For further information on above products, see following product/application section(s)

Trace metal analysis (p. 86)

G

H

I

## Ammonium oxalate

Ammonio ossalato - Ammonium oxalate - Amonio oxalato

Ca<sub>2</sub>N<sub>2</sub>H<sub>4</sub>O<sub>4</sub>

Atomic weight: 142,11

CAS N: 6009-70-7

EEC N: 238-135-4

## Transport classification

ONU n. 2811

Transport class: 6.1

Packaging group: III



R: 21/22

S: 24/25

J

K

## Ammonium oxalate - Analytical Grade

## RPE-ACS-for analysis-Reag. Ph.Eur.-Reag. USP



Assay (oxidimetric) 99.0 + 101.0 %

Description White crystals

Water-insoluble matter &lt;=50 ppm

Residue on ignition &lt;=200 ppm

Chloride &lt;=20 ppm

Sulphate &lt;=20 ppm

Heavy metals (Pb) &lt;=5 ppm

Fe &lt;=2 ppm

Code	Size	Packaging
420475	g 250	Plastic jar
420477	g 1000	Plastic jar
420478	g 2500	Plastic jar
420473	kg 25	Fibre drum

M

N

O

## Ammonium oxalate solution 4% in water

Ammonio ossalato soluzione 4% in acqua - Ammonium oxalate en solution à 4% dans l'eau - Amonio oxalato solución 4% en agua

(NH<sub>4</sub>)<sub>2</sub>CaO<sub>4</sub>·H<sub>2</sub>O

CAS N: 6009-70-7

EEC N: 238-135-4

## Ammonium oxalate solution 4% in water - Analytical Grade

## RPE-For analysis



Assay (oxidimetric) 3.8 + 4.2 %

Description Clear colourless liquid

Density at 20° C 1.00 + 1.02

Code	Size	Packaging
420521	ml 1000	Plastic bottle

R

S

T

## di-Ammonium peroxodisulphate

Perossodisolfato di diammonio - Ammonium persulfate - Amonio parasulfato

(NH<sub>4</sub>)<sub>2</sub>S<sub>2</sub>O<sub>8</sub>

Atomic weight: 228,20

CAS N: 7727-54-0

EEC N: 231-786-5

## Transport classification

ONU n. 1444

Transport class: 5.1

Packaging group: III



R: 8-22-36/37/38-42/43

S: 22-24-26-37

U

V

## di-Ammonium peroxodisulphate - Analytical Grade

## RPE-For analysis



Assay (oxidimetric) &gt;=98.0 %

Description Yellowish crystals

Acidity (H<sub>2</sub>SO<sub>4</sub>) <=0.04 meq/g

Water-insoluble matter &lt;=50 ppm

Residue on ignition &lt;=500 ppm

Chloride &amp; Chlorate(Cl) &lt;=10 ppm

Heavy metals (Pb) &lt;=50 ppm

Fe &lt;=10 ppm

Mn &lt;=0.5 ppm

Code	Size	Packaging
420627	g 1000	Plastic jar
420629	g 5000	Plastic jar
420623	kg 25	Carton drum

W

X

Y

Z

## di-Ammonium peroxodisulphate - Technical Grade

## di-Ammonium peroxodisulphate - Technical Grade

## RE-Pure



Assay (oxidimetric)  $\geq 97.5\%$  Description White crystals or yellowish Heavy metals (Pb)  $\leq 50$  ppm  
 Fe  $\leq 10$  ppm

Code	Size	Packaging
316008	g 500	Plastic jar
316004	kg 50	Carton drum

## Ammonium phosphomolybdate

Ammonio fosfomolibdato - Ammonium phosphomolybdate - Amonio fosfomolibdato

$\text{NaH}_2\text{Mo}_2\text{O}_7\text{P}$   
 Atomic weight: 1930,55  
 CAS N: 54723-94-3



Synonimes  
 Ammonium molybdophosphate

R: 22  
 S: 22

## Ammonium phosphomolybdate - Analytical Grade

## RPE-For analysis



Description Yellow powder Loss on drying  $\leq 4\%$

Code	Size	Packaging
419884	g 100	Plastic jar

## Ammonium reineckate

Ammonio reineckato - Sel de Reinecke - Amonio reineckato

$\text{NH}_4[\text{Cr}(\text{NH}_3)(\text{SCN})_4]\cdot\text{H}_2\text{O}$   
 Atomic weight: 354,44  
 CAS N: 13573-16-5  
 EEC N: 237-003-3



R: 20/21/22-32  
 S: 2-13

## Ammonium reineckate - Analytical Grade

## RPE-ACS-for analysis



Assay (gravimetric)  $\geq 93.0\%$  Description Dark red crystalline powder Diluted HCl-ins. matter  $\leq 500$  ppm  
 Sens. (Choline chloride)  $\geq 0.5$  mg/ml

Code	Size	Packaging
420672	g 25	Glass jar

## Ammonium sulphamate

Ammonio solfamato - Ammonium sulfamate - Amonio solfamato

$\text{NH}_4\text{SO}_3\text{NH}_2$   
 Atomic weight: 114,12  
 CAS N: 7773-06-0  
 EEC N: 231-871-7

## Ammonium sulphamate - Analytical Grade

## RPE-ACS-for analysis-Reag. Ph.Eur.-Reag. USP



Assay (oxidimetric)  $\geq 98.0\%$  Description White crystals Melting point  $131.0 + 135.0$  °C  
 Residue on ignition  $\leq 0.1\%$  Water-insoluble matter  $\leq 200$  ppm Heavy metals (Pb)  $\leq 5$  ppm

Code	Size	Packaging
420724	g 100	Glass jar

## Ammonium sulphate

Ammonio solfato - Ammonium sulfate - Amonio solfato

$(\text{NH}_4)_2\text{SO}_4$   
 Atomic weight: 132,14  
 CAS N: 7783-20-2  
 EEC N: 231-984-1

## Ammonium sulphate - Analytical Grade

## RPE-ACS-ISO-for analysis-Reag. Ph.Eur.-Reag. USP



Assay (acc. to Sørensen)  $\geq 99.0\%$  Description White crystals pH sol. 5% at 25° C 5.0 + 6.0  
 Water-insoluble matter  $\leq 50$  ppm Residue on ignition  $\leq 50$  ppm Chloride  $\leq 5$  ppm  
 Phosphate  $\leq 5$  ppm Nitrate  $\leq 10$  ppm Heavy metals (Pb)  $\leq 5$  ppm  
 Fe  $\leq 5$  ppm

Code	Size	Packaging
420777	g 1000	Plastic jar
420772	g 5000	Plastic jar
420771	kg 25	Carton drum
420774	kg 50	Fibre drum

## Ammonium sulphate - Technical Grade

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
M  
N  
O  
P  
Q  
R  
S  
T  
U  
V  
W  
X  
Y  
Z

## Ammonium sulphate - Technical Grade

## RE-Pure



Assay $\geq 99.5\%$	Description White crystals	pH sol. 5% at 20°C 5 + 6
Chloride $\leq 3$ ppm	Nitrate $\leq 10$ ppm	Phosphate $\leq 5$ ppm
Ca $\leq 10$ ppm	Fe $\leq 5$ ppm	Heavy metals (Pb) $\leq 5$ ppm
Residue on calcination $\leq 0.01\%$ (SO <sub>4</sub> )		

Code	Size	Packaging
316257	g 1000	Plastic jar
316251	g 5000	Plastic jar

## RE-Pure-for fermentation



Assay 20.54 + 21.18 % (N)	Description White crystals	Chloride $\leq 50$ ppm
Phosphate $\leq 300$ ppm	Cu $\leq 10$ ppm	Pb $\leq 10$ ppm

Code	Size	Packaging
316151	kg 50	Sack

## Ammonium sulphide solution 20% in water

Ammonio solfuro soluzione 20% in acqua - Ammonium sulfure en solution à 20% dans l'eau - Amonio sulfuro solución 20% en agua

(NH<sub>4</sub>)<sub>2</sub>SAtomic weight: 68,141  
CAS N: 12135-76-1  
EEC N: 235-223-4

## Transport classification

ONU n. 2683  
Transport class: 8  
Secondary risk: 3 6.1  
Packaging group: IIR: 10-31-34  
S: 26-36-45

## Ammonium sulphide solution 20% in water - Analytical Grade

## RPE-For analysis



Assay (ex ammonium) $\geq 20\%$	Assay (argentimetric) $\geq 20\%$	Description Yellow clear liquid
Density at 15° C 0.960 + 1.000	Carbonate $\leq 50$ ppm	Chloride $\leq 50$ ppm
Heavy metals (Pb) $\leq 10$ ppm	Residue on ignition $\leq 50$ ppm	Sulphate $\leq 100$ ppm
As $\leq 1$ ppm	Ca $\leq 30$ ppm	Cd $\leq 5$ ppm
Cu $\leq 5$ ppm	Fe $\leq 5$ ppm	K $\leq 10$ ppm
Mg $\leq 5$ ppm	Na $\leq 50$ ppm	Ni $\leq 5$ ppm
Pb $\leq 5$ ppm	Sb $\leq 5$ ppm	Sn $\leq 5$ ppm
Zn $\leq 5$ ppm		

Code	Size	Packaging
421101	ml 1000	Glass bottle
421102	kg 25	Plastic drum

## Ammonium sulfoichthyolate

Ammonio solfoicciolato - Ammonium sulfoichthyolate - Amonio sulfoicciolato

CAS N: 8029-68-3  
EEC N: 232-439-0

## Ammonium sulfoichthyolate - Pharmaceutical Grade

## RPH-According to pharmacopoeia: Ph.Eur.-USP-FU-Ph.Franc.-BP



Assay (S organic s.s.) $\geq 10.5\%$	Assay (SO <sub>4</sub> tot.) $\leq 20\%$	Assay (S tot.) $\geq 10.0\%$
Description Brown blackish liquid	Acidity or alkalinity Conform Ph.Eur.	Density at 20° C 1.040 + 1.085
Loss on drying 44 + 50 %	Sulphated ash $\leq 0.3\%$	Ammonia 4.5 + 7.0 %
Ammonium sulphate $\leq 8.0\%$	Origin (BSE/TSE) Synthesis	Residual solvents (CPMP/ICH/283/95) Conform

Code	Size	Packaging
316405	g 10000	Plastic drum

## Ammonium D(-)-tartrate

Ammonio D(-)-tartrato - Ammonium D(-)-tartrate - Amonio D(-)-tartrato

C<sub>4</sub>H<sub>4</sub>N<sub>2</sub>O<sub>6</sub>  
Atomic weight: 184,150  
CAS N: 3164-29-2  
EEC N: 221-618-9

## Ammonium D(-)-tartrate - Analytical Grade

## RPE-For analysis



Assay (acc. to Sørensen) 99 + 100 %	Description White crystals or crystalline powder	pH sol. 2% at 25° C 6.0 + 7.0
Specific optical rotation -9.0 + -10.0 °	Chloride $\leq 10$ ppm	Total phosphorus $\leq 5$ ppm
Water-insoluble matter $\leq 50$ ppm	Heavy metals (Pb) $\leq 5$ ppm	Residue on ignition $\leq 100$ ppm
Total sulphur $\leq 50$ ppm	Al $\leq 5$ ppm	As $\leq 0.5$ ppm
Ca $\leq 200$ ppm	Cu $\leq 1$ ppm	Fe $\leq 2$ ppm
Mg $\leq 10$ ppm	Ni $\leq 1$ ppm	Pb $\leq 1$ ppm
Zn $\leq 1$ ppm		

Code	Size	Packaging
421171	g 50	Glass jar

## Ammonium L(+)-tartrate

Ammonio L(+)-tartrato - Ammonium L(+)-tartrate - Amonio L(+)-tartrato

**CaH<sub>12</sub>N<sub>2</sub>O<sub>6</sub>**  
 Atomic weight: 184,15  
 CAS N: 3164-29-2  
 EEC N: 221-618-9

## Ammonium L(+)-tartrate - Analytical Grade



## RPE-For analysis

Assay (acc. to Sørensen) >=99 %	Description White crystalline powder	pH sol. 2% at 25° C 6.0 + 7.0
Chloride <=5 ppm	Total phosphorus <=5 ppm	Water-insoluble matter <=50 ppm
Heavy metals (Pb) <=5 ppm	Residue on ignition <=100 ppm	Total sulphur <=50 ppm
Al <=20 ppm	As <=0.5 ppm	Ca <=200 ppm
Cu <=1 ppm	Fe <=2 ppm	Mg <=20 ppm
Ni <=1 ppm	Pb <=1 ppm	Zn <=1 ppm

Code	Size	Packaging
421206	g 500	Plastic jar

## Ammonium thiocyanate

Ammonio solfocianuro - Ammonium thiocyanate - Amonio solfocianuro

**NH<sub>4</sub>SCN**  
 Atomic weight: 76,120  
 CAS N: 1762-95-4  
 EEC N: 217-175-6



Synonyms  
 Ammonium sulfocyanure

R: 20/21/22-32  
 S: 13

## Ammonium thiocyanate - Analytical Grade



## RPE-ACS-ISO-for analysis-Reag. Ph.Eur.-Reag. USP

Assay (argentimetric) >=97.5 %	Description White crystals	pH sol. 5% at 25° C 4.5 + 6.0
Water-insoluble matter <=50 ppm	Residue on ignition <=250 ppm	Reducing iodine <=0.004 meq/g
Chloride <=50 ppm	Sulphate <=50 ppm	Heavy metals (Pb) <=5 ppm
Fe <=3 ppm		

Code	Size	Packaging
420885	g 250	Plastic jar
420887	g 1000	Plastic jar
420888	g 10000	Tank

For further information on above products, see following product/application section(s)  
 Indicators (p. 50)

## Ammonium thiocyanate - Technical Grade

## RE-Pure



Assay (argentimetric) >= 99 %	Description White crystals	Sulphated ash <= 0.03 %
S <= 20 ppm	Sulphate <= 50 ppm	Fe <= 2 ppm

Code	Size	Packaging
316307	g 1000	Plastic jar
316303	kg 25	Fibre drum

## Ammonium thiocyanate 1 mol/l

Ammonio solfocianuro 1 mol/l - Ammonium thiocyanate 1 mol/l - Amonio solfocianuro 1 mol/l

**NH<sub>4</sub>SCN**  
 Atomic weight: 76,120  
 CAS N: 1762-95-4  
 EEC N: 217-175-6

## Ammonium thiocyanate 1 mol/l - Analytical Grade



## RPE-For analysis

Description Clear colourless liquid	Titration factor 0.998 + 1.002
-------------------------------------	--------------------------------

Code	Size	Packaging
420946	ml 500	Plastic bottle

76,12 gr of NH<sub>4</sub>SCN. Ready-to-use volumetric solution: 1N Stabilized with p-oxybenzoates

For further information on above products, see following product/application section(s)  
 Volumetry (p. 92)

## Ammonium thiocyanate 0.1 mol/l

Ammonio solfocianuro 0,1 mol/l - Ammonium thiocyanate 0,1 mol/l - Amonio solfocianuro 0,1 mol/l

**NH<sub>4</sub>SCN**  
 Atomic weight: 76,120  
 CAS N: 1762-95-4  
 EEC N: 217-175-6

## Ammonium thiocyanate 0.1 mol/l - Analytical Grade

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
M  
N  
O  
P  
Q  
R  
S  
T  
U  
V  
W  
X  
Y  
Z

## Ammonium thiocyanate 0.1 mol/l - Analytical Grade

## PA-PUREX-for analysis

sds

Assay (potentiometry) 0.0998 - 0.1002 N

Code	Size	Packaging
P3260015	ml 1000	Plastic bottle

## RPE-For analysis

CARLO ERBA  
Quality since 1848

Description Clear colourless liquid Titration factor 0.998 + 1.002

Code	Size	Packaging
420977	ml 1000	Plastic bottle

7,612 gr of NH<sub>4</sub>SCN. Ready-to-use volumetric solution: 0,1 N Stabilized with p-oxybenzoatesFor further information on above products, see following product/application section(s)  
Volumetry (p. 92)

## RPE-NORMEX-for analysis

CARLO ERBA  
Quality since 1848

Description Clear colourless liquid Titration factor 0.995 + 1.005

Code	Size	Packaging
421001	Ampoule	Plastic ampoule

7,612 gr of NH<sub>4</sub>SCN. Concentrated volumetric solution to prepare 1 l of solution 0,1 N.For further information on above products, see following product/application section(s)  
Volumetry (p. 92)

## Ammonium thiocyanate 0.01 mol/l

Ammonio solfocianuro 0,01 mol/l - Ammonium thiocyanate 0.01 mol/l - Amonio solfocianuro 0.01 mol/l

NH<sub>4</sub>SCN

Atomic weight: 76,120

CAS N: 1762-95-4

EEC N: 217-175-6

## Ammonium thiocyanate 0.01 mol/l - Analytical Grade

## RPE-NORMEX-for analysis

CARLO ERBA  
Quality since 1848

Description Clear colourless liquid Titration factor 0.995 + 1.005

Code	Size	Packaging
421061	Ampoule	Plastic ampoule

0,7612 gr of NH<sub>4</sub>SCN. Concentrated volumetric solution to prepare 1 l of solution 0,01 N.For further information on above products, see following product/application section(s)  
Volumetry (p. 92)

## Ammonium thiosulphate

Ammonio tiosolfato - Ammonium thiosulfate - Amonio tiosulfato

(NH<sub>4</sub>)<sub>2</sub>S<sub>2</sub>O<sub>3</sub>

Atomic weight: 148,21

CAS N: 7783-18-8

EEC N: 231-982-0

## Ammonium thiosulphate - Technical Grade

## RE-Pure

CARLO ERBA  
Quality since 1848

Assay (oxidimetric) &gt;=98 % Description White crystals

Code	Size	Packaging
316461	g 100	Plastic jar
316462	g 1000	Plastic jar

## n-Amyl alcohol

Alcole n-amilico - Alcool n-amylque - Alcohol n-amilico

CH<sub>3</sub>(CH<sub>2</sub>)<sub>4</sub>CH<sub>2</sub>OH

Atomic weight: 88,151

CAS N: 71-41-0

EEC N: 200-752-1

Transport classification

ONU n. 1105

Transport class: 3

Packaging group: III

R: 10-20  
S: 24/25

## n-Amyl alcohol - Analytical Grade

## RPE-For analysis

CARLO ERBA  
Quality since 1848

Assay (GLC) >=99 %	Description Clear colourless liquid	Density at 20° C 0.816 ± 0.818
Refractive index at 20° 1.4081 + 1.4121	Boiling point 137.6 + 138.6 °C	Acidity or alkalinity <=0.002 meq/g
Water (K.F.) <=0.2 %	Residue on evaporation <=10 ppm	Total phosphorus <=0.2 ppm
Total silicon <=0.05 ppm	Total sulphur <=0.5 ppm	Ca <=0.5 ppm
Cu <=0.05 ppm	Fe <=0.2 ppm	K <=0.1 ppm
Mg <=0.1 ppm	Na <=1 ppm	Pb <=0.05 ppm
Zn <=0.5 ppm		

Code	Size	Packaging
413781	ml 250	Glass bottle
413783	ml 1000	Glass bottle

## n-Amyl alcohol - Technical Grade

## n-Amyl alcohol - Technical Grade

## RE-Pure

CARLO ERBA  
Quality since 1829

Assay (GLC) >=98 %	Description Clear colourless liquid	Density at 20° C 0.815 ± 0.819
Refractive index at 20° 1.4061 ± 1.4141	Boiling point 137.1 ± 139.1 ° C	Residue on evaporation <=100 ppm
Acids and esters <=0.5 %	Water (K.F.) <=0.2 %	

Code	Size	Packaging
307901	ml 1000	Glass bottle
307902	kg 22	Metal drum

## tert-Amyl alcohol

Alcole ter-amilico - Alcool tert-amylque - Alcohol ter-amilico

**(CH<sub>3</sub>)<sub>2</sub>C(OH)CH<sub>2</sub>CH<sub>3</sub>**  
 Atomic weight: 88,151  
 CAS N: 75-85-4  
 EEC N: 200-908-9

**Transport classification**  
 ONU n. 1105  
 Transport class: 3  
 Packaging group: II



R: 11-20-37/38  
 S: 46

## tert-Amyl alcohol - Analytical Grade

## RPE-For analysis

CARLO ERBA  
Quality since 1829

Assay (GLC) >=99.5 %	Description Clear colourless liquid	Ready carbonizable substances Conform
Density at 20° C 0.808 ± 0.810	Refractive index at 20° 1.4027 ± 1.4077	Boiling point 101.3 ± 102.8 ° C
Residue on evaporation <=10 ppm	Acids and esters <=500 ppm	Acidity(valerianic.ac) <=50 ppm
Water (K.F.) <=0.2 %	Alcalinity (NH3) <=5 ppm	Indole base <=0.1 ppm
Organic base (N) <=7 ppm	Carbonyl Compounds (CO) <=80 ppm	Pyridine and homologues <=30 ppm
Subst. reducing KMnO4 <=200 ppm	Cu <=0.5 ppm	Fe <=0.5 ppm

Code	Size	Packaging
413941	ml 250	Glass bottle
413944	ml 1000	Glass bottle

## Aniline blue soluble in alcohol

Blu anilina solubile in alcole - Bleu d'aniline soluble dans l'alcool - Azul de anilina solubile en alcohol

**C<sub>16</sub>H<sub>16</sub>Br<sub>2</sub>O<sub>3</sub>S**  
 CAS N: 8004-91-9



R: 20/21/22

## Aniline blue soluble in alcohol - Special Grade

## RS-For microscopy-C.I. 42775

CARLO ERBA  
Quality since 1829

Description Dark brown powder

Code	Size	Packaging
428612	g 25	Glass jar

Stain for Cytology.

**For further information on above products, see following product/application section(s)**  
 Microscopy (p. 58)

## Aniline blue soluble in water

Blu anilina solubile in acqua - Bleu d'aniline soluble dans l'eau - Azul de anilina solubile en agua

**C<sub>16</sub>H<sub>16</sub>Na<sub>2</sub>O<sub>3</sub>S<sub>2</sub>**  
 Atomic weight: 737,74  
 CAS N: 28631-66-5  
 EEC N: 249-113-9



R: 20/21/22

## Aniline blue soluble in water - Analytical Grade

## RPE-For analysis-C.I. 42755

CARLO ERBA  
Quality since 1829

Description Violet powder

Code	Size	Packaging
428582	g 25	Glass jar

Stain for Microscopy (botany-cytology-hystology). Indicator (pH 9,4±14,0).

**For further information on above products, see following product/application section(s)**  
 Microscopy (p. 58)

## Aniline hydrochloride

Anilina cloridrato - Aniline chlorhydrate - Anilina cloridrato

**C<sub>6</sub>H<sub>5</sub>NH<sub>2</sub>.HCl**  
 Atomic weight: 129,59  
 CAS N: 142-04-1  
 EEC N: 205-519-8

**Transport classification**  
 ONU n. 1548  
 Transport class: 6.1  
 Packaging group: III



R: 20/21/22-40-48/23/24/25-50  
 S: 28-36/37-45-61

## Aniline hydrochloride - Analytical Grade

## RPE-For analysis

CARLO ERBA  
Quality since 1829

Assay (acidimetric) >= 98.5 %	Description White crystalline powder	Melting point 196 ± 199 ° C
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Code	Size	Packaging
422376	g 500	Plastic jar

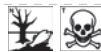
A

## Aniline sulphate

*Anilina solfato - Aniline sulfate - Anilina sulfato*

**(C<sub>6</sub>H<sub>5</sub>NH<sub>2</sub>)<sub>2</sub>.H<sub>2</sub>SO<sub>4</sub>**  
 Atomic weight: 284,34  
 CAS N: 542-16-5  
 EEC N: 208-805-0

**Transport classification**  
 ONU n. 2811  
 Transport class: 6.1  
 Packaging group: III



R: 23/24/25-40-41-43-48/23/24/25-  
 S: 26-27-36/37/39-45-61-63

B

C

## Aniline sulphate - Analytical Grade

## RPE-For analysis



Assay (ex nitrogen) >=99 %	Description White crystalline powder	Water (K.F.) <=0.5 %
Chloride <=20 ppm	Water-insoluble matter <=100 ppm	Heavy metals (Pb) <=10 ppm
Residue on ignition <=100 ppm	Fe <=10 ppm	

Code	Size	Packaging
422426	g 500	Plastic jar

D

E

F

## Anisaldehyde

*Aldeide anisica - Aldéhyde anisique - Aldehído anísico*

**4-CH<sub>3</sub>OC<sub>6</sub>H<sub>4</sub>CHO**  
 Atomic weight: 136,14  
 CAS N: 123-11-5  
 EEC N: 204-602-6



R: 21/22-36/38  
 S: 24/25

## Anisaldehyde - Technical Grade

## RE-Pure



Assay (GLC) >=99 %	Description Clear yellow liquid	Density at 20° C 1.121 + 1.125
Refractive index at 20° 1.5710 + 1.5750	Boiling point 247 + 249 ° C	

Code	Size	Packaging
415312	ml 100	Bottle

**For further information on above products, see following product/application section(s)**  
 Chromatography (p. 34)

G

H

I

J

K

L

## Anisic acid

*Acido anisico - Acide anisique - Acido anísico*

**CH<sub>3</sub>OC<sub>6</sub>H<sub>4</sub>COOH**  
 Atomic weight: 152,14  
 CAS N: 100-09-4  
 EEC N: 202-818-5

## Anisic acid - Analytical Grade

## RPE-For analysis



Assay (GLC) >= 97.5 %	Description White to slightly grey - beige powder	Melting point 181 + 186 °C
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Code	Size	Packaging
402132	g 25	Glass jar

M

N

O

P

## o-Anisidine

*o-Anisidina - o-Anisidine - o-Anisidina*

**CH<sub>3</sub>OC<sub>6</sub>H<sub>4</sub>NH<sub>2</sub>**  
 Atomic weight: 123,15  
 CAS N: 90-04-0  
 EEC N: 201-963-1

**Transport classification**  
 ONU n. 2431  
 Transport class: 6.1  
 Packaging group: III



R: 45-23/24/25-68  
 S: 53-45

**Synonymes**  
 2-Méthoxyaniline

## o-Anisidine - Technical Grade

## RE-Pure



Assay (GLC) >=99 %	Description Yellowish h liquid	Density at 20° C 1.090 + 1.094
Refractive index at 20° 1.5734 + 1.5774	Boiling point 223.0 + 225.0 ° C	Melting point 5.2 + 7.2 ° C
Water (K.F.) <=0.1 %	Residue on ignition <=20 ppm	

Code	Size	Packaging
422472	ml 250	Glass bottle

C.I. 16185

**For further information on above products, see following product/application section(s)**  
 Indicators (p. 50)

Q

R

S

T

U

V

## p-Anisidine

*p-Anisidina - p-Anisidine - p-Anisidina*

**CH<sub>3</sub>OC<sub>6</sub>H<sub>4</sub>NH<sub>2</sub>**  
 Atomic weight: 123,15  
 CAS N: 104-94-9  
 EEC N: 203-254-2

**Transport classification**  
 ONU n. 2431  
 Transport class: 6.1  
 Packaging group: III



R: 26/27/28-33-50  
 S: 28-36/37-45-61

**Synonymes**  
 4-Méthoxyaniline

## p-Anisidine - Technical Grade

W

X

Y

Z



## p-Anisidine - Technical Grade

## RE-Pure



Assay (GLC) >= 98.5 %	Description Gray-black crystals	Melting point 56 + 59 °C
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Code	Size	Packaging
422573	g 50	Glass jar

## Anisole

Anisolo - Anisol - Anisol

**C<sub>6</sub>H<sub>5</sub>OCH<sub>3</sub>**  
 Atomic weight: 108,14  
 CAS N: 100-66-3  
 EEC N: 202-876-1

**Transport classification**  
 ONU n. 2222  
 Transport class: 3  
 Packaging group: III



R: 10  
 S: 7-21

## Anisole - Analytical Grade

## RPE-For analysis



Assay (GLC) >= 99 %	Description Clear colourless liquid	Density at 20° C 0.992 + 0.998
Refractive index at 20° 1.5149 + 1.5209	Boiling point 153.3 + 154.3 ° C	Residue on evaporation <= 50 ppm
Acidity (benzoic acid) <= 20 ppm	Water <= 500 ppm	Alcalinity (NaOH) <= 3 ppm
Carbonyl Compounds (CO) <= 80 ppm	Peroxides (H <sub>2</sub> O <sub>2</sub> ) <= 2 ppm	

Code	Size	Packaging
422677	ml 1000	Glass bottle

## Anthracene

Antracene - Anthracène - Antraceno

**C<sub>14</sub>H<sub>10</sub>**  
 Atomic weight: 178,22  
 CAS N: 120-12-7  
 EEC N: 204-371-1



R: 36/38  
 S: 22-24

## Anthracene - Analytical Grade

## RPE-For analysis



Description Hazel flakes	Melting point 215.3 + 217.3 ° C	Residue on ignition <=500 ppm
Fe <=20 ppm		

Code	Size	Packaging
423183	g 50	Glass jar

## 9,10-Anthraquinone

9,10-Antrachinone - 9,10-Antraquinone - 9,10-Antraquinona

**C<sub>14</sub>H<sub>8</sub>O<sub>2</sub>**  
 Atomic weight: 208,22  
 CAS N: 84-65-1  
 EEC N: 201-549-0

## 9,10-Anthraquinone - Analytical Grade

## RPE-For analysis



Assay (spectrophotom.) >=98 %	Description Yellow crystalline powder	Melting point 284 + 288 ° C
Loss on drying <=0.1 %	Anthracene <=0.1 %	Total chlorine <=20 ppm
Heavy metals (Pb) <=10 ppm	Residue on ignition <=0.1 %	Total sulphur <=200 ppm
Fe <=10 ppm		

Code	Size	Packaging
423237	g 250	Plastic jar

## Anthrone

Antrone - Anthrone - Antrona

**C<sub>14</sub>H<sub>10</sub>O**  
 Atomic weight: 194,22  
 CAS N: 90-44-8  
 EEC N: 201-994-0

## Anthrone - Analytical Grade

## RPE-ACS-for analysis-Reag. Ph.Eur.-Reag. USP



Description Yellow crystals	Melting point 154 + 158 °C	Absorbance of reag.sol. Conform
Solub. ty in Dieth. Ether Conform	Sens. to carbohydrates Conform	

Code	Size	Packaging
423281	g 10	Glass jar

For the analysis of dei carbohydrates.

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## Antimony

Antimonio - Antimoine - Antimoine

Transport classification  
ONU n. 3264  
Transport class: 8  
Packaging group: II  
Packaging group: III

R: R40-36/37/38  
S: S36/37-26

## Antimony - Special Grade

## RS-NORMEX-concentrated solution for AAS

Description Clear colourless liquid Titration factor 0.995 + 1.005

Code	Size	Packaging	Notes
422731	Ampoule	Glass vial	conc. 1.000 ppm

Concentrated volumetric solution to prepare 1 l of solution 1 mg/ml

For further information on above products, see following product/application section(s)

Trace metal analysis (p. 86)

## RS-Standard solution for AAS

Description Clear colourless liquid Titration factor 0.998 + 1.002

Code	Size	Packaging	Notes
497415	ml 100	Glass bottle	conc. 1.000 ppm
497411	ml 500	Plastic bottle	conc. 1.000 ppm

Ready-to-use solution: concentration 1 mg/ml

## RS-Standard solution for ICP

Code	Size	Packaging	Notes
503891	ml 100	Plastic bottle	Matrice: Hydrochloric acid, conc. 1.000 ppm
503895	ml 100	Plastic bottle	Matrice: Hydrochloric acid, conc. 10.000 ppm
503893	ml 500	Plastic bottle	Matrice: Hydrochloric acid, conc. 1.000 ppm
503897	ml 500	Plastic bottle	Matrice: Hydrochloric acid, conc. 10.000 ppm

Provided with real batch certificate. Verified against NIST Standard Reference

For further information on above products, see following product/application section(s)

Trace metal analysis (p. 86)

## RS-Standard solution for ICP-MS

Code	Size	Packaging	Notes
505831	ml 50	Plastic bottle	Matrice: Nitric acid and hydrofluoric acid, conc. 10 ppm
505832	ml 100	Plastic bottle	Matrice: Nitric acid and hydrofluoric acid, conc. 10 ppm
505835	ml 100	Plastic bottle	Matrice: Nitric acid and hydrofluoric acid, conc. 100 ppm

For further information on above products, see following product/application section(s)

Trace metal analysis (p. 86)

## Antimony (III) oxide

di-Antimonio triossido - di-Antimoine trioxyde - di-Antimonio trióxido

Sb<sub>2</sub>O<sub>3</sub>  
Atomic weight: 291,50  
CAS N: 1309-64-4  
EEC N: 215-175-0

R: 40  
S: 22-36/37

## Antimony (III) oxide - Analytical Grade

## RPE-For analysis

Assay (oxidimetric) >=99 %	Description White powder	Antimony pentoxide <=0.5 %
Chloride <=300 ppm	HCl-insoluble matter <=50 ppm	Nitrate <=20 ppm
Substances not ppt. H <sub>2</sub> S <=0.3 %	Sulphate <=50 ppm	As <=10 ppm
Cu <=10 ppm	Fe <=10 ppm	Pb <=10 ppm

Code	Size	Packaging
422986	g 500	Glass jar

## Antimony (III) oxide - Technical Grade

## RE-Puro for fibers-ERBATECH

Assay (oxidimetric) 99 + 100 %	Description White powder	Antimony pentoxide <=0.5 %
Chloride <=300 ppm	HCl-insoluble matter <=50 ppm	Nitrate <=10 ppm
Substances not ppt. H <sub>2</sub> S <=0.3 %	Sulphate <=50 ppm	As <=10 ppm
Cu <=10 ppm	Fe <=10 ppm	Pb <=10 ppm

Code	Size	Packaging
318771	kg 50	Fibre drum

## Antimony lactate

Antimonio lattato - Antimoine Lactate - Antimonio Lactato

Transport classification  
ONU n. 1550  
Transport class: 6.1  
Packaging group: III

## Antimony lactate - Technical Grade

## Antimony lactate - Technical Grade

## PS-Pure-for synthesis

sds

Assay (as Sb<sub>2</sub>O<sub>3</sub>) >= 11 %

Code	Size	Packaging
P8940267	1 171 (kg 210)	Drum

## Antimony oxychloride

Antimonio ossicloruro - Antimoine oxychlorure - Antimonio oxicloloro

Sb<sub>2</sub>O<sub>5</sub>Cl<sub>2</sub>Atomic weight: 637,90  
CAS N: 12182-69-3  
EEC N: 235-347-9

## Transport classification

ONU n. 1549  
Transport class: 6.1  
Packaging group: IIIR: 20/22-51/53  
S: 61

## Antimony oxychloride - Analytical Grade

## RPE-For analysis

CARLO ERBA  
Quality since 1824

Assay (oxidimetric) >=99 %	Description White crystal. powder	HCl-insoluble matter <=100 ppm
Substances not ppt. H <sub>2</sub> S <=0.1 %	Sulphate <=50 ppm	As <=5 ppm
Cu <=10 ppm	Fe <=20 ppm	Pb <=10 ppm

Code	Size	Packaging
422934	g 100	Glass jar

## Antimony potassium tartrate

Antimonio potassio tartrato - Antimoine potassium tartrate - Antimonio y potasio tartrato

C<sub>4</sub>H<sub>4</sub>KO<sub>6</sub>Sb<sub>2</sub>·1/2H<sub>2</sub>OAtomic weight: 333,93  
CAS N: 28300-74-5

## Transport classification

ONU n. 1551  
Transport class: 6.1  
Packaging group: IIIR: 20/22-51/53  
S: 61

## Antimony potassium tartrate - Analytical Grade

## RPE-For analysis

CARLO ERBA  
Quality since 1824

Assay (iodometric) >= 99.0 %	Description White crystalline powder	Loss on drying (105°C) <= 2.7 %
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Code	Size	Packaging
423035	g 250	Plastic jar
423037	g 1000	Plastic jar

## Antimony powder

Antimonio polvere - Antimoine en poudre - Antimonio polvo

## Sb

Atomic weight: 121,77  
CAS N: 7440-36-0  
EEC N: 231-146-5

## Transport classification

ONU n. 2871  
Transport class: 6.1  
Packaging group: IIIR: 20/22  
S: 22

## Antimony powder - Analytical Grade

## RPE-For analysis

CARLO ERBA  
Quality since 1824

Assay (oxidimetric) >=99 %	Description Grey powder
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Code	Size	Packaging
422782	g 50	Glass jar
422786	g 500	Glass jar

## Antimony trichloride

Antimonio tricloloro - Antimoine trichlorure - Antimonio tricloloro

SbCl<sub>3</sub>Atomic weight: 228,11  
CAS N: 10025-91-9  
EEC N: 233-047-2

## Transport classification

ONU n. 1733  
Transport class: 8  
Packaging group: IIR: 34-51/53  
S: 26-45-61

## Antimony trichloride - Analytical Grade

## RPE-ACS-for analysis

CARLO ERBA  
Quality since 1824

Assay (iodometric) >= 99.0 %	Description White crystals	Chloroform insoluble <= 500 ppm
Sulphate <= 50 ppm	As <= 200 ppm	Ca <= 50 ppm
Cu <= 10 ppm	Fe <= 20 ppm	K <= 100 ppm
Na <= 200 ppm	Pb <= 50 ppm	

Code	Size	Packaging
422834	g 100	Jar
422835	g 250	Glass jar

For further information on above products, see following product/application section(s)

Chromatography (p. 34)

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## Aqueous calcium hydroxide

Acqua di calce - Eau de chaux - Agua de cal

### Aqueous calcium hydroxide - Analytical Grade

#### RPE-For analysis



Assay 0.140 ± 0.169 % (p/p) Description Clear liquid

Code	Size	Packaging
411921	ml 1000	Plastic bottle

Saturated solution

## Aquivitrex Erba

Acquovitrex-Erba - Acquovitrex-Erba - Aguavitex-Erba

### Aquivitrex Erba - Special Grade

#### RS-Aqueous mounting medium for histology



Description Yellow clear liquid Density at 20° C 1.01 ± 1.02 Refractive index at 20° 1.34 ± 1.36

Code	Size	Packaging
412194	6 x ml 100	Glass bottle

For further information on above products, see following product/application section(s)  
Microscopy (p. 58)

## L(+)-Arginine

L(+)-Arginina - L(+)-Arginine - L(+)-Arginina



Atomic weight: 174,20

CAS N: 74-79-3

EEC N: 200-811-1



R: 36  
S: 26

### L(+)-Arginine - Analytical Grade

#### RPE-For analysis



Assay (non-aqueous medium) >=98 % Description White crystalline powder Melting point >=230 ° C  
Specific optical rotation +25 + +27 °

Code	Size	Packaging
424271	g 100	Glass jar

For biochemistry

## L(+)-Arginine monohydrochloride

L(+)-Arginina monochloridato - L(+)-Arginine monochlorhydratée - L(+)-Arginina monochlorohidrato



Atomic weight: 210,67

CAS N: 1119-34-2

EEC N: 214-275-1

### L(+)-Arginine monohydrochloride - Analytical Grade

#### RPE-For analysis



Assay (non-aqueous medium) 98.5 ± 101.0 % s.s. Description White powder Potere rotat. spec. (c=8; HCl 6N) +21.4 + +23.5 ° s.s.  
Loss on drying <= 0.2 % Ammonium <= 200 ppm Water-insoluble matter <= 100 ppm  
Heavy metals (Pb) <= 10 ppm Residue on ignition <= 0.1 % Sulphate <= 300 ppm  
Fe <= 10 ppm

Code	Size	Packaging
424268	g 5	Glass jar

For biochemistry

## Arsenazo III

Arsenazo III - Arsenazo III - Arsenazo III



Atomic weight: 820,3

CAS N: 1668-00-4

EEC N: 216-788-6

Transport classification

ONU n. 3465

Transport class: 6.1

Packaging group: II



R: 23/25-50/53  
S: 20/21-28-45-60-61

### Arsenazo III - Analytical Grade

#### RPE-For analysis



Description Brown granular powder Sens.as complex.indicat Conform

Code	Size	Packaging
424281	g 1	Glass bottle

For the analysis of: Th, Zr, U, Cd, Zn, Ca.

## Arsenic

Arsenico - Arsenic - Arsenico

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## Arsenic - Special Grade

## RS-Standard solution for ICP



Code	Size	Packaging	Notes
503421	ml 100	Plastic bottle	Matrice: Nitric acid, conc. 1.000 ppm
503425	ml 100	Plastic bottle	Matrice: Nitric acid, conc. 10.000 ppm
503423	ml 500	Plastic bottle	Matrice: Nitric acid, conc. 1.000 ppm
503427	ml 500	Plastic bottle	Matrice: Nitric acid, conc. 10.000 ppm

Provided with real batch certificate. Verified against NIST Standard Reference

For further information on above products, see following product/application section(s)

Trace metal analysis (p. 86)

## RS-Standard solution for ICP-MS



Code	Size	Packaging	Notes
505311	ml 50	Plastic bottle	Matrice: Nitric acid, conc. 10 ppm
505312	ml 100	Plastic bottle	Matrice: Nitric acid, conc. 10 ppm
505315	ml 100	Plastic bottle	Matrice: Nitric acid, conc. 100 ppm

For further information on above products, see following product/application section(s)

Trace metal analysis (p. 86)

## L(+)-Ascorbic acid

Acido L(+)-ascorbico - Acide L(+)-ascorbique - Acido L(+)-ascórbico

COCOH:COHCHCHOHCH<sub>2</sub>OH

Atomic weight: 176,13

CAS N: 50-81-7

EEC N: 200-066-2

## L(+)-Ascorbic acid - Analytical Grade

## RPE-ISO-for analysis



Assay (oxidimetric) >=99.0 %	Description White crystal. powder	Melting point 190.5 ± 192.0 °C
Specific optical rotation +20.5 ± +21.5 °	Loss on drying <=0.1 %	Chloride <=50 ppm
Water-insoluble matter <=30 ppm	Heavy metals (Pb) <=10 ppm	Residue on ignition <=300 ppm
Sulphate <=20 ppm	Cu <=0.3 ppm	Fe <=2 ppm
Pb <=0.5 ppm		

Code	Size	Packaging
402404	g 100	Glass jar
402406	g 500	Plastic jar
402407	g 1000	Plastic jar

## L(+)-Ascorbic acid - Pharmaceutical Grade

## RPH-According to pharmacopoeia: Ph.Eur.-USP-FU-Ph.Franc.-BP-DAB



Assay (oxidimetric) 99 + 100.5 %	Description White crystalline powder	Appearance of solution Conform Ph.Eur.
Organic volatile impurities Conform USP-NF	pH sol. 5% at 25° C 2.1 ± 2.6	Specific optical rotation +20.5 ± +21.5 °
Oxalic acid <=0.2 %	Residue on ignition <=0.1 %	Heavy metals (Pb) <=10 ppm
Cu <=5 ppm	Fe <=2 ppm	Origin (BSE/TSE) Synthesis
Residual solvents (CPMP/ICH/283/95) Conform		

Code	Size	Packaging
390604	g 100	Glass jar
390607	g 1000	Plastic jar
390601	kg 25	Sack

## L(+)-Asparagine

L(+)-Asparagina - L(+)-Asparagine - L(+)-Asparagina

H<sub>2</sub>N.CO.CH<sub>2</sub>.CH(NH<sub>2</sub>).COOH.H<sub>2</sub>O

Atomic weight: 150,14

CAS N: 5794-13-8

EEC N: 200-735-9

## L(+)-Asparagine - Analytical Grade

## RPE-For analysis



Assay (non-aqueous medium) 98.5±101.0 % (s.s.)	Description White crystalline powder	Identification (I.R.) Positive
Specific optical rotation +33.5 ± +36.5 °	Loss on drying 11.5 ± 12.5 %	Residue on ignition <= 0.1 %
Heavy metals (Pb) <= 10 ppm	As <= 1 ppm	Fe <= 10 ppm
Ammonium <= 0.1 %	Chloride <= 0.02 %	Sulphate <= 0.03 %
Other amino-acids <= 1 %		

Code	Size	Packaging
424544	g 100	Glass jar
424547	g 1000	Plastic jar

For biochemistry

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## DL-Aspartic acid

Acido DL-aspartico - Acide DL-aspartique - Acido DL-aspartico

**HOOCCHNH<sub>2</sub>CH<sub>2</sub>COOH**  
Atomic weight: 133,10  
CAS N: 617-45-8  
EEC N: 210-513-3

### DL-Aspartic acid - Analytical Grade

#### RPE-For analysis



Assay (ex nitrogen) 10.4 + 10.6 %	Description White powder	Identification (I.R.) Positive
NaOH 10% solution complete (1:10)	Loss on drying <=0.2 %	Sulphated ash <=0.1 %
Asparagine <=0.2 %	Ammonium <=200 ppm	Chloride <=400 ppm
Sulphate <=300 ppm	Heavy metals (Pb) <=20 ppm	As <=2 ppm
Fe <=30 ppm		

Code	Size	Packaging
402431	kg 25	Carton drum
402435	kg 50	Drum

## L(+)-Aspartic acid

Acido L(+)-aspartico - Acide L(+)-aspartique - Acido L(+)-aspartico

**HOOCCHNH<sub>2</sub>CH<sub>2</sub>COOH**  
Atomic weight: 133,10  
CAS N: 617-45-8  
EEC N: 200-291-6

### L(+)-Aspartic acid - Technical Grade

#### RE-Pure



Assay (non-aqueous medium) >= 98.0 % (s.s.)	Description White crystalline powder	Potere rotat. spec. (c=8; HCl 6N) +24 + +26 °
Loss on drying <= 0.2 %	Ammonium <= 500 ppm	Chloride <= 200 ppm
Sulphate <= 300 ppm	As <= 1 ppm	Altri amminoacidi (TLC) <= 0.5 %
Fe <= 10 ppm	Heavy metals (Pb) <= 10 ppm	Residue on ignition <= 0.1 %

Code	Size	Packaging
402442	g 25	Glass jar
402445	g 5000	Carton box

## Atropine

Atropina - Atropine - Atropina

**C<sub>17</sub>H<sub>23</sub>NO**  
Atomic weight: 289,38  
CAS N: 51-55-8  
EEC N: 200-104-8

Transport classification  
ONU n. 1544  
Transport class: 6.1  
Packaging group: I



### Atropine - Special Grade

#### RS-For microanalysis



Assay (non-aqueous medium) >= 99 %	Description White powder
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Code	Size	Packaging
424563	g 1	Glass vial

## Atropine sulphate

Atropina solfato - Atropine sulfate - Atropina sulfato

**(C<sub>17</sub>H<sub>23</sub>NO)<sub>2</sub>·H<sub>2</sub>SO<sub>4</sub>·H<sub>2</sub>O**  
Atomic weight: 694,85  
CAS N: 5908-99-6  
EEC N: 200-235-0

Transport classification  
ONU n. 1544  
Transport class: 6.1  
Packaging group: II



### Atropine sulphate - Pharmaceutical Grade

#### RPH-According to pharmacopoeia: Ph.Eur.-USP-FU-Ph.Franc.-BP-DAB



Assay (non-aqueous medium) 99.0 + 101.0 % s.s.	Description White crystalline powder	Acidity Conform USP-NF
Foreign alkaloids (TLC) Conform Ph.Eur.	Other alkaloids Conform USP-NF	Apoatropine Conform Ph.Eur.
Organic volatile impurities Conform USP-NF	pH 4.5 + 6.2	Melting point >=187 °C
Angular rotation -0.50 + +0.05 °	Angular rotation (5%) -0.60 + +0.05 °	Water (K.F.) 2.0 + 4.0 %
Sulphated ash <=0.1 %	Origin (BSE/TSE) Synthesis	Residual solvents (CPMP/ICH/283/95) Conform

Code	Size	Packaging
321451	g 10	Glass jar

## Auramine O

Auramina O - Auramine O - Auramina O

**C<sub>17</sub>H<sub>23</sub>NaCl**  
Atomic weight: 321,86  
CAS N: 2465-27-2  
EEC N: 219-567-2

Transport classification  
ONU n. 3143  
Transport class: 6.1  
Packaging group: III



### Auramine O - Analytical Grade

**Auramine O - Analytical Grade****RPE-For analysis-C.I. 41000**

Description Yellow powder

Code	Size	Packaging
424591	g 10	Glass jar

Stain for Microscopy (bacteriology-fluorescence). For the analysis of Pb

For further information on above products, see following product/application section(s)  
Microscopy (p. 58)

**Ausilab 101**

Ausilab 101 - Ausilab 101 - Ausilab 101

**Ausilab 101 - Special Grade****RS-Detergent**

Code	Size	Packaging
289410120	4 x kg 5	Plastic bottle

For further information on above products, see following product/application section(s)  
Detergents (p. 43)

**Ausilab 104**

Ausilab 104 - Ausilab 104 - Ausilab 104

**Ausilab 104 - Special Grade****RS-Detergent**

Code	Size	Packaging
289410420	4 x kg 5	Plastic bottle

For further information on above products, see following product/application section(s)  
Detergents (p. 43)

**Ausilab 201**

Ausilab 201 - Ausilab 201 - Ausilab 201

Transport classification  
Transport class: 8

**Ausilab 201 - Special Grade****RS-Detergent**

Code	Size	Packaging
289420110	g 10000	Plastic tank

For further information on above products, see following product/application section(s)  
Detergents (p. 43)

**Ausilab 205**

Ausilab 205 - Ausilab 205 - Ausilab 205

**Ausilab 205 - Special Grade****RS-Detergent**

Code	Size	Packaging
289420505	g 5000	Plastic tank

For further information on above products, see following product/application section(s)  
Detergents (p. 43)

**Ausilab 208**

Ausilab 208 - Ausilab 208 - Ausilab 208

Transport classification  
ONU n. 1824  
Transport class: 8  
Packaging group: II

**Ausilab 208 - Special Grade****RS-Detergent**

Code	Size	Packaging
289420805	g 5000	Plastic tank

For further information on above products, see following product/application section(s)  
Detergents (p. 43)

A

## Ausilab 300

Ausilab 300 - Ausilab 300 - Ausilab 300

B

## Ausilab 300 - Special Grade

## RS-Detergent



Code	Size	Packaging
289430001	g 1000	Dispenser

C

D

## Azobenzene

Azobenzene - Azobenzène - Azobenceno

C6H5N=NC6H5

Atomic weight: 182.22

CAS N: 103-33-3

EEC N: 203-102-5

Transport classification

ONU n. 3077

Transport class: 9

Packaging group: III

R: 45-20/22-48/22-68-50/53  
S: 53-45-60-61

E

F

## Azobenzene - Analytical Grade

## RPE-For analysis



Assay (oxidimetric) 99 + 100 %	Description Red-orange crystalline powder	Melting point 67 + 69 ° C
Water-insoluble matter <=100 ppm	Residue on ignition <=100 ppm	

Code	Size	Packaging
424701	g 5	Glass jar

H

I

## Azomethine H

Azometina H - Azométhine H - Azometino H

C17H16N2NaO6S2

Atomic weight: 445.35

CAS N: 32266-60-7

EEC N: 250-975-3

J

K

## Azomethine H - Analytical Grade

## RPE-For analysis



Description Yellow orange powder

Code	Size	Packaging
424691	g 10	Glass jar

For the analysis of B.

L

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N

## Azure II

Azzurro II - Azur II - Azur II

C16H16N4S2Cl2

Atomic weight: 625.680

CAS N: 37247-10-2



R: 20/21/22

O

P

## Azure II - Special Grade

## RS-For microscopy-C.I. 52010/52015



Description Polvere nera con riflessi verdi	Maximum absorption 645 + 650 nm	E 1% / 1 cm on dried substance 1850 + 2100
Loss on drying at 110°C <= 15 %		

Code	Size	Packaging
424721	g 5	Glass jar

Stain for Bacteriology-haematology. Mixture azul I - methylene blue

For further information on above products, see following product/application section(s)

Microscopy (p. 58)

Q

R

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T

## Azure II eosin

Azzurro II eosina - Azur II Eosine - Azur II Eosina

CAS N: 53092-85-6



R: 20/21/22

U

V

## Azure II eosin - Special Grade

## RS-For microscopy-C.I. 52010/52015/45380



Description Polvere blu scuro	Maximum absorption (red) 520 + 530 nm	Maximum absorption (blue) 645 + 660 nm
Absorption ratio (red) 1.00 + 1.20	Absorption ratio (blue) 1.25 + 1.35	Loss on drying at 105°C <= 10 %

Code	Size	Packaging
424731	g 5	Glass jar

Stain for Bacteriology-haematology-hystology. Mixture Azul I, methylene Blue, Eosin.

For further information on above products, see following product/application section(s)

Microscopy (p. 58)

W

X

Y

Z



## Barbituric acid

Acido barbiturico - Acide barbiturique - Acido barbitúrico

**NHCONHCOCH<sub>2</sub>CO**  
 Atomic weight: 128,12  
 CAS N: 67-52-7  
 EEC N: 200-658-0

## Barbituric acid - Analytical Grade

## RPE-For analysis



Assay (acidimetric) 99.0 + 101.0 % Description White crystalline powder Melting point 248 + 255 ° C  
 Loss on drying <= 0.5 % Heavy metals (Pb) <= 20 ppm Sulphated ash <= 0.2 %

Code	Size	Packaging
402532	g 25	Glass jar
402535	g 250	Glass jar

## Barium

Bario - Baryum - Bario

Transport classification  
 ONU n. 3264  
 Transport class: 8  
 Packaging group: II  
 Packaging group: III



R: 20/22-36/38  
 S: 26-36/37

## Barium - Special Grade

## RS-NORMEX-concentrated solution for AAS



Description Clear colourless liquid Titration factor 0.995 + 1.005

Code	Size	Packaging	Notes
424861	Ampoule	Glass vial	conc. 1.000 ppm

Concentrated volumetric solution to prepare 1 l of solution 1 mg/ml

For further information on above products, see following product/application section(s)

Trace metal analysis (p. 86)

## RS-Standard solution for AAS



Description Clear colourless liquid Titration factor 0.998 + 1.002

Code	Size	Packaging	Notes
497445	ml 100	Glass bottle	conc. 1.000 ppm
497441	ml 500	Plastic bottle	conc. 1.000 ppm

Ready-to-use solution: concentration 1 mg/ml

## RS-Standard solution for ICP



Code	Size	Packaging	Notes
503451	ml 100	Plastic bottle	Matrice: Hydrochloric acid, conc. 1.000 ppm
503455	ml 100	Plastic bottle	Matrice: Hydrochloric acid, conc. 10.000 ppm
503453	ml 500	Plastic bottle	Matrice: Hydrochloric acid, conc. 1.000 ppm
503457	ml 500	Plastic bottle	Matrice: Hydrochloric acid, conc. 10.000 ppm

Provided with real batch certificate. Verified against NIST Standard Reference

For further information on above products, see following product/application section(s)

Trace metal analysis (p. 86)

## RS-Standard solution for ICP-MS



Code	Size	Packaging	Notes
505326	ml 50	Plastic bottle	Matrice: Nitric acid, conc. 10 ppm
505327	ml 100	Plastic bottle	Matrice: Nitric acid, conc. 10 ppm
505328	ml 100	Plastic bottle	Matrice: Nitric acid, conc. 100 ppm

For further information on above products, see following product/application section(s)

Trace metal analysis (p. 86)

## Barium Acetate

Bario acetato - Baryum acétate - Bario acetato

**Ba(CH<sub>3</sub>COO)<sub>2</sub>**  
 Atomic weight: 255,43  
 CAS N: 543-80-6  
 EEC N: 208-849-0

Transport classification  
 ONU n. 1564  
 Transport class: 6.1  
 Packaging group: III



R: 20/22  
 S: 28

## Barium Acetate - Analytical Grade

## RPE-ACS-for analysis



Assay (complexometric) 99.0 + 102.0 % K <= 30 ppm Description White crystalline powder  
 Water-insoluble matter <= 100 ppm Oxidizing subst.(NO<sub>3</sub>) <= 50 ppm Chloride <= 10 ppm  
 Heavy metals (Pb) <= 5 ppm Ca <= 500 ppm Na <= 50 ppm  
 Fe <= 10 ppm Sr <= 0.2 %

Code	Size	Packaging
424896	g 500	Plastic jar
424894	kg 50	Fibre drum

## Barium carbonate

Bario carbonato - Baryum carbonate - Bario carbonato

BaCO<sub>3</sub>Atomic weight: 197,35  
CAS N: 513-77-9  
EEC N: 208-167-3Transport classification  
ONU n. 1564  
Transport class: 6.1  
Packaging group: III  
R: 20/22  
S: 28

## Barium carbonate - Analytical Grade

## RPE-ACS-for analysis



Assay (alkalimetric) 99.0 + 101.0 %	Description White powder	Water-soluble titrable base <= 0.002 meq/g
HCl-insoluble matter <= 150 ppm	Oxidizing subst.(NO3) <= 50 ppm	Chloride <= 20 ppm
Sulphide <= 10 ppm	Heavy metals (Pb) <= 10 ppm	Ca <= 500 ppm
Fe <= 20 ppm	Sr <= 0.7 %	K <= 50 ppm
Na <= 200 ppm		

Code	Size	Packaging
424945	g 250	Plastic jar
424943	kg 25	Carton drum

## Barium carbonate - Technical Grade

## RE-Pure



Assay (alkalimetric) >= 99.0 %	Description Hazel-white powder	Fe <= 50 ppm
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Code	Size	Packaging
321507	g 1000	Plastic jar
321504	kg 50	Fibre drum

## Barium chloranilate

Bario cloroanilato - Baryum chloranilate - Bario cloroanilato

C<sub>6</sub>O<sub>4</sub>Cl<sub>2</sub>Ba·3H<sub>2</sub>OAtomic weight: 398,36  
CAS N: 13435-46-6  
EEC N: 236-567-8Transport classification  
ONU n. 1564  
Transport class: 6.1  
Packaging group: III  
R: 20/22  
S: 28

## Barium chloranilate - Analytical Grade

## RPE-For analysis



Assay (gravimetric) >=95 %	Description Brown powder	Loss on drying 13 + 15 %
Chloride <=500 ppm	Heavy metals (Pb) <=10 ppm	Sulphate sensitivity (0.001 mg/ml)
Fe <=10 ppm		

Code	Size	Packaging
425013	g 25	Glass jar

For the colorimetric analysis of sulphates

## Barium chloride

Bario cloruro - Baryum chlorure - Bario cloruro

BaCl<sub>2</sub>·2H<sub>2</sub>OAtomic weight: 244,28  
CAS N: 10326-27-9  
EEC N: 233-788-1Transport classification  
ONU n. 1564  
Transport class: 6.1  
Packaging group: III  
R: 20-25  
S: 45

## Barium chloride - Analytical Grade

## RPE-ACS-for analysis



Assay (argentimetric) >= 99 %	Description White crystals	pH sol. 5% at 25° C 5.2 + 8.2
Loss on drying 150° C 14 + 16 %	Ammonium <= 10 ppm	Heavy metals (Pb) <= 2.5 ppm
Nitrate, Chlorate (NO3) <= 10 ppm	Ca <= 20 ppm	Cu <= 1 ppm
Fe <= 1 ppm	K <= 40 ppm	Na <= 100 ppm
Ni <= 1 ppm	Pb <= 2 ppm	Zn <= 4 ppm
Water-insoluble matter <= 0.05 %	Substanc. not ppt H2SO4 <= 0.03 %	Sr <= 0.05 %

Code	Size	Packaging
425026	g 500	Plastic jar
425027	g 1000	Plastic jar
425029	g 5000	Plastic jar
425024	kg 50	Carton drum

## Barium chloride - Technical Grade

## PS-Pure-for synthesis



Assay >= 99 %	Iron (Fe) <= 10 mg/Kg	Calcium (Ca) <= 400 mg/Kg
Insoluble matter <= 500 mg/Kg	Strontium (Sr) <= 0.45 %	

Code	Size	Packaging
P1420057	kg 50	Fibre drum

## Barium chloride - Technical Grade

## RE-Pure



Assay (argentimetric)  $\geq 98\%$  Description White crystals

Code	Size	Packaging
321757	g 1000	Plastic jar
321754	kg 50	Fibre drum

## Barium chloride solution 10% in water

Bario cloruro soluzione 10% in acqua - Baryum chlorure en solution à 10% dans l'eau - Bario cloruro solution 10% en agua

**BaCl<sub>2</sub>·2H<sub>2</sub>O**  
CAS N: 10326-27-9  
EEC N: 233-788-1



R: 20/22  
S: 28

## Barium chloride solution 10% in water - Analytical Grade

## RPE-For analysis



Assay (argentimetric)  $9.5 \pm 10.5\%$  Description Clear colourless liquid Density at 15° C  $1.08 \pm 1.10$

Code	Size	Packaging
425101	ml 1000	Plastic bottle

For water analysis

## Barium chloride solution 0.14% in water

Bario cloruro soluzione 0,14% in acqua - Baryum chlorure en solution à 0,14% dans l'eau - Bario cloruro solución 0,14% en agua

**BaCl<sub>2</sub>·2H<sub>2</sub>O**  
Atomic weight: 244,280  
CAS N: 10326-27-9  
EEC N: 233-788-1

## Barium chloride solution 0.14% in water - Analytical Grade

## RPE-For analysis



Description Clear colourless liquid

Code	Size	Packaging
425171	ml 1000	Plastic bottle

For wine liming according to Marty

## Barium chromate

Bario cromato - Baryum chromate - Bario cromato

**BaCrO<sub>4</sub>**  
Atomic weight: 253,33  
CAS N: 10294-40-3  
EEC N: 233-660-5

Transport classification  
ONU n. 1564  
Transport class: 6.1  
Packaging group: III



R: 50/53-22-45  
S: 61-45-53

## Barium chromate - Technical Grade

## RE-Pure



Assay (oxidimetric)  $\geq 99\%$  Description Yellow powder HCl-insoluble matter  $\leq 0.1\%$   
Chloride  $\leq 100$  ppm Fe  $\leq 20$  ppm

Code	Size	Packaging
425245	g 250	Glass jar

## Barium citrate tribasic

Bario citrato tribasico - Baryum citrate tribasique - Bario citrato tribásico

**Ba<sub>3</sub>(C<sub>6</sub>H<sub>5</sub>O<sub>7</sub>)<sub>2</sub>·7H<sub>2</sub>O**  
Atomic weight: 916,390  
CAS N: 6487-29-2  
EEC N: 208-140-6

Transport classification  
ONU n. 1564  
Transport class: 6.1  
Packaging group: III



R: 20/22  
S: 28

## Barium citrate tribasic - Analytical Grade

## RPE-For analysis



Assay (gravimetric)  $99 \pm 100\%$  Description White powder Alkalinity(Ba idroxyde)  $\leq 500$  ppm  
Chloride  $\leq 10$  ppm HCl-insoluble matter  $\leq 100$  ppm Nitrate  $\leq 20$  ppm  
Substances not ppt. H<sub>2</sub>S  $\leq 0.1\%$  Fe  $\leq 10$  ppm

Code	Size	Packaging
424991	g 100	Glass jar

## Barium hydroxide

Bario idrossido - Baryum hydroxyde - Bario hidróxido

**Ba(OH)<sub>2</sub>·8H<sub>2</sub>O**  
Atomic weight: BA(OH)<sub>2</sub>, 8H<sub>2</sub>O  
CAS N: 12230-71-6  
EEC N: 241-234-5

Transport classification  
ONU n. 1564  
Transport class: 6.1  
Packaging group: III



R: 20/22  
S: 28

## Barium hydroxide - Analytical Grade

## RPE-ISO-for analysis



Assay (alkalimetric) >=98.0 %	Description White crystals	Carbonate <=2.0 %
Chloride <=10 ppm	HCl-insoluble matter <=50 ppm	Heavy metals (Pb) <=5 ppm
Sulphide <=5 ppm	Ca <=50 ppm	Fe <=5 ppm
Sr <=1.5 %		

Code	Size	Packaging
425297	g 1000	Plastic jar
425291	kg 50	Fibre drum

## Barium hydroxide - Technical Grade

## RE-Pure



Assay (alkalimetric) >=95 %	Description White crystals	Chloride <=100 ppm
HCl-insoluble matter <=500 ppm	Heavy metals (Pb) <=30 ppm	Fe <=50 ppm

Code	Size	Packaging
322007	g 1000	Plastic jar
322009	g 5000	Plastic jar
322004	kg 50	Carton drum

## Barium hydroxide solution 5% in water

Bario idrossido soluzione 5% in acqua - Baryum hydroxyde en solution à 5% dans l'eau - Bario hidróxido solución 5% en agua

**Ba(OH)<sub>2</sub>·8H<sub>2</sub>O**

Atomic weight: 315,460  
CAS N: 12230-71-6  
EEC N: 241-234-5

Transport classification  
Packaging group: III



R: 20/22  
S: 28

## Barium hydroxide solution 5% in water - Analytical Grade

## RPE-For analysis



Assay 4.7 ± 5.3 % (p/p)	Description Clear colourless liquid	Density at 20° C >=1.03
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Code	Size	Packaging
425301	ml 1000	Plastic bottle

## Barium nitrate

Bario nitrato - Baryum nitrate - Bario nitrato

**Ba(NO<sub>3</sub>)<sub>2</sub>**

Atomic weight: 261,35  
CAS N: 10022-31-8  
EEC N: 233-020-5

Transport classification  
ONU n. 1446  
Transport class: 5.1  
Secondary risk: 6.1  
Packaging group: II



R: 8-20/22  
S: 17-28

## Barium nitrate - Analytical Grade

## RPE-For analysis



Assay >= 99.0 %	Description White crystals	pH sol. 5% at 25° C 5.0 ± 8.0
Chloride <= 10 ppm	Fe <= 5 ppm	Ca <= 0.005 %
Sr <= 0.1 %	Heavy metals (Pb) <= 10 ppm	

Code	Size	Packaging
425347	g 1000	Plastic jar
425341	kg 25	Carton drum

## Barium perchlorate 0.05 mol/l

Bario perclorato 0,05 mol/l - Baryum perchlorate 0.05 mol/l - Bario paraclorato 0.05 mol/l

**Ba(ClO<sub>4</sub>)<sub>2</sub>·5H<sub>2</sub>O**

CAS N: 10294-39-0  
EEC N: 236-710-4

Transport classification  
ONU n. 1993  
Transport class: 3  
Packaging group: III



R: 11  
S: 7-16

## Barium perchlorate 0.05 mol/l - Analytical Grade

## RPE-For analysis



Description Clear colourless liquid	Titration factor 0.998 ± 1.002
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Code	Size	Packaging
425421	ml 1000	Glass bottle

16,81gr of Ba(ClO<sub>4</sub>)<sub>2</sub> · 5H<sub>2</sub>O. Ready-to-use volumetric solution: 0,05 M. Hydroalcoholic solution for sulphates analysis.

For further information on above products, see following product/application section(s)  
Volumetry (p. 92)

## Barium perchlorate trihydrate

*Bario perclorato triidrato - Baryum perchlorate trihydratè - Bario paraclorato trihidrato*

**Ba(ClO<sub>4</sub>)<sub>2</sub>·5H<sub>2</sub>O**  
 Atomic weight: 390,29  
 CAS N: 10294-39-0  
 EEC N: 236-710-4

**Transport classification**  
 ONU n. 1447  
 Transport class: 5.1  
 Secondary risk: 6.1  
 Packaging group: II



R: 9-20/22  
 S: 27

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
M  
N  
O  
P  
Q  
R  
S  
T  
U  
V  
W  
X  
Y  
Z

## Barium perchlorate trihydrate - Analytical Grade

## RPE-For analysis



Assay (complexometric) >=99.8 %  
 Chlorate <=300 ppm  
 Methyl alcohol insolub <=100 ppm  
 Ca <=100 ppm  
 K <=100 ppm  
 Pb <=25 ppm

Description White crystals  
 Chloride <=10 ppm  
 Heavy metals (Pb) <=5 ppm  
 Cu <=25 ppm  
 Na <=100 ppm  
 Sr <=0.6 %

Total nitrogen <=20 ppm  
 Water-insoluble matter <=100 ppm  
 Substances not ppt. H<sub>2</sub>S <=0.1 %  
 Fe <=3 ppm  
 Ni <=25 ppm  
 Zn <=20 ppm

Code	Size	Packaging
425411	g 50	Glass jar

## Barium peroxide

*Bario perossido - Baryum péroxyde - Bario paraóxido*

**BaO<sub>2</sub>**  
 Atomic weight: 169,36  
 CAS N: 1304-29-6  
 EEC N: 215-128-4

**Transport classification**  
 ONU n. 1449  
 Transport class: 5.1  
 Secondary risk: 6.1  
 Packaging group: II



R: 8-20/22  
 S: 13-27

## Barium peroxide - Technical Grade

## RE-Pure



Assay (oxidimetric) >=85 %  
 HCl-insoluble matter <=2.5 %  
 Fe <=200 ppm

Description Hazel powder  
 Heavy metals (Pb) <=100 ppm

Chloride <=200 ppm  
 Substances not ppt. H<sub>2</sub>S <=1 %

Code	Size	Packaging
322401	g 1000	Glass jar
322402	g 10000	Plastic jar

## Barium sulphate

*Bario solfato - Baryum sulfate - Bario sulfato*

**BaSO<sub>4</sub>**  
 Atomic weight: 233,40  
 CAS N: 7727-43-7  
 EEC N: 231-784-4

## Barium sulphate - Analytical Grade

## RPE-For analysis



Assay (complexometric) >=97 %  
 Loss on ignition <=1.5 %  
 Total nitrogen <=30 ppm  
 Heavy metals (Pb) <=10 ppm  
 Silicate <=20 ppm  
 Cu <=5 ppm  
 Na <=500 ppm  
 Zn <=10 ppm

Description White powder  
 Acidity (H<sub>2</sub>SO<sub>4</sub>) <=100 ppm  
 Chloride <=300 ppm  
 Soluble barium salts <=50 ppm  
 As <=1 ppm  
 Fe <=20 ppm  
 Ni <=5 ppm

Organic substances Conform  
 Alkalinity(Ba idroxyde) <=40 ppm  
 Phosphate <=10 ppm  
 Soluble salts <=0.2 %  
 Cd <=5 ppm  
 K <=100 ppm  
 Pb <=5 ppm

Code	Size	Packaging
425497	g 1000	Plastic jar
425492	kg 25	Carton drum

## Barium sulphate - Technical Grade

## RE-Pure-for accumulators



Description White powder  
 Phosphate <=200 ppm  
 Fe <=20 ppm

Loss on ignition <=2 %  
 Nitrate <=50 ppm  
 Zn <=20 ppm

Chloride <=0.1 %  
 Subst. reducing KMnO<sub>4</sub> <=40 ppm(10m)

Code	Size	Packaging
322607	g 1000	Plastic jar
322601	kg 25	Carton box

## Base oil

*Ollo di base - Huile de base - Aceite de base*

## Base oil - Analytical Grade

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
M  
N  
O  
P  
Q  
R  
S  
T  
U  
V  
W  
X  
Y  
Z

## Base oil - Analytical Grade

## RPE-For analysis



Description Yellowish opaline liquid Density at 20° C 0.810 + 0.877

Code	Size	Packaging
466811	ml 500	Glass bottle

For metal-organic compounds solubilization

## Bathocuproine

Bathocuproina - Bathocuproïne - Bathocuproína

$(\text{CH}_3)_2(\text{C}_6\text{H}_5)_2\text{C}_{12}\text{H}_8\text{N}_2$   
 Atomic weight: 360,46  
 CAS N: 4733-39-5  
 EEC N: 225-240-5

## Bathocuproine - Analytical Grade

## RPE-For analysis



Assay (non-aqueous medium)  $\geq 99\%$  Description White yellowish powder Melting point  $277.0 \pm 281.0^\circ\text{C}$   
 Residue on ignition  $\leq 0.1\%$  Copper sensitivity  $\geq 0.2\ \mu\text{g/ml}$

Code	Size	Packaging
444851	g 1	Glass bottle

For the spectrophometric analysis of Cu.

## Bathocuproine sulphonate sodium salt

Bathocuproina sulfonato sodico - Bathocuproïne sulfonate sodique - Bathocuproína sulfonato sódico

$\text{C}_{20}\text{H}_{18}\text{N}_2\text{Na}_2\text{O}_6\text{S}_2$   
 Atomic weight: 564,55  
 CAS N: 52698-84-7  
 EEC N: 258-111-7

## Bathocuproine sulphonate sodium salt - Analytical Grade

## RPE-For analysis



Description White powder Suitab.for Cu determ. Conform

Code	Size	Packaging
425501	g 1	Glass bottle

For the analysis Cu. Soluble in water.

## Bathophenanthroline sulphonate sodium salt

Batofenantrolina sulfonato sale sodico - Bathophénanthroline sulfonate sodique - Batofenantrolina sulfonato sal sódico

$\text{C}_{12}\text{H}_8\text{N}_2(\text{C}_6\text{H}_4\text{SO}_3\text{Na})_2$   
 Atomic weight: 536,5  
 CAS N: 52746-49-3  
 EEC N: 258-152-0

## Bathophenanthroline sulphonate sodium salt - Analytical Grade

## RPE-For analysis

Description Polvere nocciola Residue on ignition  $21 \pm 27\%$  Iron sensitivity  $\leq 0.5\ \mu\text{g/ml}$ 

Code	Size	Packaging
425601	g 0,5	Glass bottle

For the analysis of Fe. Soluble in water.

## Benedict's reagent

Benedict reattivo - Réactif de Bénédict - Benedict reactivo

## Benedict's reagent - Special Grade

## RS-For microscopy



Description Clear blue liquid

Code	Size	Packaging
425742	ml 1000	Glass bottle

For the quantitative analysis of glucose in urines.

## Benzaldehyde

Aldeide benzoica - Aldéhyde benzoïque - Aldehído benzoico

$\text{C}_6\text{H}_5\text{CHO}$   
 Atomic weight: 106,12  
 CAS N: 100-52-7  
 EEC N: 202-860-4

Transport classification  
 ONU n. 1990  
 Transport class: 9  
 Packaging group: III

R: 22  
S: 24

## Benzaldehyde - Analytical Grade

## Benzaldehyde - Analytical Grade



## RPE-For analysis

Assay (GLC) >=99 %	Description Clear colourless liquid	Density at 20° C 1.041 ± 1.051
Refractive index at 20° 1.5438 ± 1.5488	Boiling point 177.6 ± 178.6 ° C	Acidity (benzoic acid) <=1 %
Total chlorine <=200 ppm	Ca <=5 ppm	Cd <=1 ppm
Co <=1 ppm	Cu <=1 ppm	Fe <=1 ppm
K <=20 ppm	Mg <=1 ppm	Mn <=1 ppm
Na <=20 ppm	Ni <=1 ppm	Pb <=1 ppm
Zn <=1 ppm		

Code	Size	Packaging
415362	ml 500	Glass bottle

## Benzalkonium chloride

Benzalconio cloruro - Benzalkonium chlorure - Benzalconio cloruro

**[C<sub>12</sub>H<sub>25</sub>N(CH<sub>3</sub>)<sub>2</sub>]<sup>+</sup>Cl<sup>-</sup>**  
 CAS N: 85409-22-9  
 EEC N: 264-151-6

**Transport classification**  
 ONU n. 1759  
 ONU n. 3259  
 Transport class: 8  
 Packaging group: II



R: 23/24/25  
 S: 36/37-45

## Benzalkonium chloride - Pharmaceutical Grade



## RPH-According to pharmacopoeia: Ph.Eur.

Assay 95.0 + 104.0 % s.s.	Description Yellowish powder	Appearance of solution Conform Ph.Eur.
Acidity or alkalinity Conform Ph.Eur.	Amine and related salts Conform Ph.Eur.	Water <= 10 %
Sulphated ash <= 0.1 %		

Code	Size	Packaging
322737	g 1000	Jar

## Benzalkonium chloride - Technical Grade



## RE-Pure

Assay (non-aqueous medium) 97.0 + 103.0 % (s.s.)	Description Yellow liqui-solid	Aspetto soluzione 1% Conform
Water (K.F.) <= 10 %	Sulphated ash <= 0.1 %	

Code	Size	Packaging
322721	g 250	Plastic jar

## Benzene

Benzene - Benzène - Benceno

**C<sub>6</sub>H<sub>6</sub>**  
 Atomic weight: 78,115  
 CAS N: 71-43-2  
 EEC N: 200-753-7

**Transport classification**  
 ONU n. 1114  
 Transport class: 3  
 Packaging group: II



R: 45-46-11-36/38-48/23/24/25-65  
 S: 53-45

## Benzene - Analytical Grade



## RPE-ACS-for analysis

Assay (GLC) >=99.0 %	Description Clear liquid	Colour (APHA) <=10
Ready carbonizable substances Conform	Water (K.F.) <=500 ppm	Residue on evaporation <=10 ppm
Tiophene Conform	Total sulphur <=5 ppm	

Code	Size	Packaging
426111	ml 1000	Glass bottle
426113	ml 2500	Glass bottle

For further information on above products, see following product/application section(s)  
 Microscopy (p. 58)

## Benzene-d6

Benzene-d6 - Benzène-d6 - Benceno-d6

**C<sub>6</sub>D<sub>6</sub>**  
 Atomic weight: 84,160  
 CAS N: 1076-43-3  
 EEC N: 214-061-8

**Transport classification**  
 ONU n. 1114  
 Transport class: 3  
 Packaging group: II



R: 45-46-11-36/38-48/23/24/25-65  
 S: 53-45

## Benzene-d6 - Special Grade

## RS-For NMR spectroscopy



Code	Size	Packaging	Notes
P5085	ml 25	Glass bottle	Isotopic purity 99,50%
P5086	ml 100	Glass bottle	Isotopic purity 99,50%
P5089	10 x ml 0,75	Ampoule	Isotopic purity 99,50%
P5100	10 x ml 0,6	Ampoule	Isotopic purity 99,96%

For further information on above products, see following product/application section(s)  
 NMR Spectroscopy (p. 65)

## Benzenesulphonyl chloride

Benzenesolfonile cloruro - Benzène sulfonyle chlorure - Benzenosulfonilo cloruro

**C<sub>6</sub>H<sub>5</sub>SO<sub>2</sub>Cl**

Atomic weight: 176,62  
CAS N: 98-09-9  
EEC N: 202-636-6

**Transport classification**

ONU n. 2225  
Transport class: 8  
Packaging group: III



R: 34-20  
S: 26-36/39-45

### Benzenesulphonyl chloride - Analytical Grade

#### RPE-For analysis



**Assay >=99 %** Description Clear colourless liquid Density at 20° C ~ 1.377  
Refractive index at 20° ~ 1.552 Melting point 15 ± 17 ° C

Code	Size	Packaging
426231	ml 10	Glass bottle

Derivatizer for chromatography

For further information on above products, see following product/application section(s)

Chromatography (p. 34)

## Benzhydrol

Benzidrola - Benzhydrol - Benzhidrol

**C<sub>12</sub>H<sub>10</sub>CHOHC<sub>6</sub>H<sub>5</sub>**

Atomic weight: 184,23  
CAS N: 91-01-0  
EEC N: 202-033-8

Synonyms  
Diphénylcarbinol

### Benzhydrol - Analytical Grade

#### RPE-For analysis



Description White crystals Melting point 68.0 ± 70.0 ° C Residue on ignition <=0.1 %

Code	Size	Packaging
426403	g 50	Plastic jar

## Benzoic acid

Acido benzoico - Acide benzoïque - Acido benzóico

**C<sub>6</sub>H<sub>5</sub>COOH**

Atomic weight: 122,12  
CAS N: 65-85-0  
EEC N: 200-618-2



R: 36/38  
S: 26

### Benzoic acid - Analytical Grade

#### RPE-ACS-for analysis



**Assay (acidimetric) >= 99.5 %** Description White crystalline powder Identification (I.R.) Positive  
Insol. in alcol metilico <= 0.005 % Subst. reducing KMnO<sub>4</sub> Conform Freezing point 122 ± 123 °C  
Heavy metals (Pb) <= 5 ppm Chlorinated compounds <= 0.005 % Sulphur compounds <= 0.002 %  
Residue on calcination <= 0.005 %

Code	Size	Packaging
402635	g 250	Plastic jar
402637	g 1000	Plastic jar

### Benzoic acid - Special Grade

#### RS-For microanalysis



Description White crystalline powder C >=68.85 % H >=4.95 %  
O >=26.20 %

Code	Size	Packaging
402601	g 2	Glass bottle

#### RS-Standard for volumetry



**Assay (acidimetric) >=99.8 %** Description White crystalline powder

Code	Size	Packaging
402621	g 10	Glass jar

For further information on above products, see following product/application section(s)

Volumetry (p. 92)

### Benzoic acid - Pharmaceutical Grade



A

B

C

D

E

F

G

H

I

J

K

L

M

N

O

P

Q

R

S

T

U

V

W

X

Y

Z

## Benzoic acid - Pharmaceutical Grade

## RPH-According to pharmacopoeia: Ph.Eur.-USP-FU-Ph.Franc.-BP



Assay (acidimetric) 99.5 + 100.5 %s.s.	Description White crystalline powder	Appearance of solution Conform Ph.Eur.
Carbonizable substances Conform Ph.Eur.	Carbonizable substances Conform USP	Oxidizing substances Conform Ph.Eur.
Freezing point 121 + 123 °C	Water (K.F.) <=0.7 %	Sulphated ash <=0.05 %
Halogenated and halides <=300 ppm	Heavy metals (Pb) <=10 ppm	Origin (BSE/TSE) Synthesis
Residual solvents (CPMP/ICH/283/95) Conform		

Code	Size	Packaging
302087	g 1000	Plastic bottle
302089	g 5000	Carton box
302082	kg 25	Fibre drum
302084	kg 50	Carton drum

## Benzoic acid - Technical Grade

## RE-Puro for fibers-ERBATECH



Assay (acidimetric) 99.8 + 100.0 %	Description White crystalline powder	NH4OH Solubility Conform
Melting point 122.0 + 123.0 °C	Total chlorine <=300 ppm	Methyl alcohol insolub <=50 ppm
Heavy metals (Pb) <=5 ppm	Residue on ignition <=100 ppm	Subst. reducing KMnO4 <=200 ppm
Total sulphur <=50 ppm	Fe <=3 ppm	

Code	Size	Packaging
302111	kg 50	Fibre drum

 $\alpha$ -Benzoinoxime*alfa-Benzoinossima - alpha-Benzoïne-oxime - alpha-Benzoinoxima*

**C<sub>8</sub>H<sub>9</sub>CHOHC:NOHC<sub>8</sub>H<sub>9</sub>**  
 Atomic weight: 227,25  
 CAS N: 441-38-3  
 EEC N: 207-127-2

 $\alpha$ -Benzoinoxime - Analytical Grade

## RPE-For analysis



Description White crystalline powder	Melting point 150 + 155 °C	Residue on ignition <=500 ppm
Copper sensitivity Conform	Separazione (TLC) >=97.5 %	

Code	Size	Packaging
427442	g 25	Glass jar

For the spectrophotometric analysis of Cu(II), Pd(II), Pt(IV), Rh(III), V(V).

## Benzonitrile

*Benzonitrile - Benzonitrile - Benzonitrilo*

**C<sub>7</sub>H<sub>5</sub>N**  
 Atomic weight: 103,12  
 CAS N: 100-47-0  
 EEC N: 202-855-7

**Transport classification**  
 ONU n. 2224  
 Transport class: 6.1  
 Packaging group: II



**Synonyms**  
 Phénylcyaneure

## Benzonitrile - Technical Grade

## RE-Pure



Assay (GLC) 99 + 100 %	Description Yellowish liquid	Density at 20 °C 1.003 + 1.007
Refractive index at 20° 1.5264 + 1.5314	Boiling point 190.2 + 191.2 °C	Water (K.F.) <=0.2 %

Code	Size	Packaging
323774	ml 250	Glass bottle

## Benzophenone

*Benzofenone - Benzophénone - Benzofenona*

**C<sub>13</sub>H<sub>10</sub>CO**  
 Atomic weight: 182,22  
 CAS N: 119-61-9  
 EEC N: 204-337-6

## Benzophenone - Technical Grade

## RE-Pure



Assay (spectrophotom.) >=95 %	Description White crystals	Melting point 46.6 + 49.6 °C
Residue on ignition <=0.1 %		

Code	Size	Packaging
323656	g 500	Plastic jar

## Benzotrichloride

*Benzo triclورو - Benzotrichlorure - Benzotrichloruro*

**C<sub>6</sub>H<sub>2</sub>CCl<sub>3</sub>**  
 Atomic weight: 195,470  
 CAS N: 98-07-7  
 EEC N: 202-634-5

## Benzotrichloride - Analytical Grade

## Benzotrichloride - Analytical Grade

## RPE-For analysis



Assay (GLC) 99 ± 100 %	Description Clear colourless liquid	Density at 20° C 1.369 ± 1.375
Refractive index at 20° 1.5530 ± 1.5630	Melting point 4.2 ± 5.2 ° C	

Code	Size	Packaging
427591	ml 250	Glass bottle

Stabilized with calcium carbonate

## Benzoyl chloride

*Benzoil cloruro - Benzoyle chlorure - Benzoiilo cloruro*

**C<sub>7</sub>H<sub>5</sub>COCl**  
 Atomic weight: 140,57  
 CAS N: 98-88-4  
 EEC N: 202-710-8

**Transport classification**  
 ONU n. 1736  
 Transport class: 8  
 Packaging group: II



R: 34  
 S: 26-45

## Benzoyl chloride - Analytical Grade

## RPE-ACS-for analysis



Assay (acidimetric) 98.0 ± 100.5 %	Description Clear colourless liquid	Freezing point -2.0 ± 0.0 ° C
Total phosphorus ≤ 20 ppm	Heavy metals (Pb) ≤ 10 ppm	Residue on ignition ≤ 50 ppm
Fe ≤ 10 ppm		

Code	Size	Packaging
427291	ml 250	Glass bottle
427292	ml 1000	Glass bottle

## Benzoyl chloride - Technical Grade

## RE-Pure



Assay (acidimetric) ≥ 98.0 %	Description Yellow clear liquid	Density at 20° C 1.200 ± 1.220
Boiling point 196.2 ± 198.2 ° C	Freezing point -2 ± 0 ° C	

Code	Size	Packaging
323751	ml 1000	Glass bottle

## o-Benzoylbenzoic acid

*Acido o-benzoilbenzoico - Acide o-benzoylbenzoique - Acido o-benzoilbenzoico*

**C<sub>14</sub>H<sub>10</sub>CO<sub>2</sub>**  
 Atomic weight: 226,23  
 CAS N: 85-52-9  
 EEC N: 201-612-2

## o-Benzoylbenzoic acid - Analytical Grade

## RPE-For analysis



Assay (acidimetric) 98 ± 100 %	Description Yellowish crystalline powder	Melting point 126.8 ± 128.3 ° C
Total chlorine ≤ 0.3 %	Alcohol-insolub. matter ≤ 0.5 %	Heavy metals (Pb) ≤ 20 ppm
Residue on ignition ≤ 0.5 %		

Code	Size	Packaging
402712	g 25	Glass jar

## 2-Benzyl-2-imidazoline hydrochloride

*2-Benzile-2-imidazolina cloridrato - 2-Benzyl-2-imidazoline chlorhydrate - 2-Bencil-2-imidazoline cloridrato*

**C<sub>14</sub>H<sub>16</sub>CH<sub>2</sub>C<sub>2</sub>N(CH<sub>2</sub>)<sub>2</sub>NH<sub>2</sub>.HCl**  
 Atomic weight: 196,68  
 CAS N: 59-97-2  
 EEC N: 200-447-3

## 2-Benzyl-2-imidazoline hydrochloride - Pharmaceutical Grade

## RPH-According to pharmacopoeia: FU



Assay (acidimetric) 99.0 ± 100.0 % s.s.	Description White crystalline powder	pH sol. 1% at 25° C 5.0 ± 7.0
Melting point 172.0 ± 176.0 ° C	Loss on drying ≤ 0.5 %	Sulphated ash ≤ 0.1 %

Code	Size	Packaging
323333	g 50	Glass jar

## Benzyl acetate

*Benzile acetato - Benzyle acétate - Bencilo acetato*

**CH<sub>3</sub>COOCH<sub>2</sub>C<sub>6</sub>H<sub>5</sub>**  
 Atomic weight: 150,17  
 CAS N: 140-11-4  
 EEC N: 205-399-7

## Benzyl acetate - Analytical Grade

**Benzyl acetate - Analytical Grade****RPE-For analysis**

Assay (GLC) >=99 %	Description Clear colourless liquid	Density at 20° C 1.053 ± 1.057
Refractive index at 20° 1.5002 ± 1.5062	Boiling point 214.5 ± 215.5 °C	Water (K.F.) <=0.2 %
Acidity (acetic acid) <=50 ppm	Residue on ignition <=10 ppm	

Code	Size	Packaging
426712	ml 250	Glass bottle

**Benzyl alcohol***Alcole benzilico - Alcool benzylique - Alcohol benclilico***C<sub>6</sub>H<sub>5</sub>CH<sub>2</sub>OH**Atomic weight: 108,14  
CAS N: 100-51-6  
EEC N: 202-859-9R: 20/22  
S: 26**Benzyl alcohol - Analytical Grade****RPE-For analysis**

Assay (GLC) >=99.8 %	Description Clear liquid	Colour (APHA) <=10
Density at 20° C ~ 1.04	Refractive index at 20° C ~ 1.54	Boiling point 204.5 ± 205.5 °C
Water (K.F.) <=0.1 %	Total chlorine <=100 ppm	Benzaldehyde <=0.1 %

Code	Size	Packaging
414022	ml 1000	Glass bottle
414024	ml 2500	Glass bottle

Stabilized with ~0,02% of BHA.

**RPE-For analysis-Stabilized with BHT**

Assay (GLC) >=99.5 %	Description Clear colourless liquid	Identification (I.R.) Conform
Water miscibility Conform	Refractive index at 20° 1.5376 ± 1.5416	Boiling point 204.9 ± 205.9 °C
Acidity (benzoic acid) <=200 ppm	Water (K.F.) <=0.1 %	Alcalinity (NaOH) <=34 ppm
Benzaldehyde (GLC) <=0.1 %	Total chlorine <=50 ppm	Carbonyl Compounds (CO) <=100 ppm
Heavy metals (Pb) <=5 ppm	Peroxides (H <sub>2</sub> O <sub>2</sub> ) <=10 ppm	Residue on ignition <=20 ppm
Fe <=10 ppm		

Code	Size	Packaging
414052	ml 1000	Glass bottle
414056	kg 23	Polythene-metal drum

**Benzyl alcohol - Pharmaceutical Grade****RPH-According to pharmacopoeia: Ph.Eur.-NF-FU-Ph.Franc.-BP**

Assay (acidimetric) 98.0 ± 100.5 %	Description Clear colourless liquid	Appearance of solution Conform Ph.Eur.
Acidity Conform Ph.Eur.	Density at 20° C 1.043 ± 1.049	Refractive index at 20° 1.538 ± 1.541
Residue on evaporation <=500 ppm	Analogous subst. GLC Conform Ph.Eur.	Benzaldehyde (GLC) <=500 ppm
Peroxide value <=5	Solubility Conform Ph. Eur.	Cyclohexylmethanol (GLC) <=0.1 %
Origin (BSE/TSE) Synthesis	Residual solvents (CPMP/ICH/283/95) Conform	

Code	Size	Packaging
308132	ml 2500	Glass bottle
308138	kg 23	Combined drum

**Benzyl benzoate***Benzile benzoato - Benzyle benzoate - Bencilo benzoato***C<sub>6</sub>H<sub>5</sub>COOCH<sub>2</sub>C<sub>6</sub>H<sub>5</sub>**Atomic weight: 212,25  
CAS N: 120-51-4  
EEC N: 204-402-9R: 22  
S: 25**Benzyl benzoate - Analytical Grade****RPE-For analysis**

Assay (GLC) >= 99 %	Description Clear liquid	Density at 25° C 1.115 ± 1.120
Refractive index at 20° 1.5651 ± 1.5711	Melting point 18.6 ± 20.2 °C	Water (K.F.) <= 0.05 %
Acidity (benzoic acid) <= 0.12 %	Carbonyl Compounds (CO) <= 0.04 %	

Code	Size	Packaging
426761	ml 250	Glass bottle
426763	ml 1000	Glass bottle
426765	kg 30	Metal drum

**Benzyl benzoate - Pharmaceutical Grade**

## Benzyl benzoate - Pharmaceutical Grade

RPH-According to pharmacopoeia: Ph.Eur.-USP-FU-Ph.Franc.-BP



Assay (alkalimetric) 99.0 + 100.5 %	Description Clear colourless liquid	Acidity Conform Ph.Eur.
Organic volatile impurities Conform USP-NF	Density at 20° C 1.118 + 1.120	Density at 25° C 1.116 + 1.120
Refractive index at 20° 1.568 + 1.570	Freezing point >= 17.0 ° C	Aldehyde <= 0.05 %
Sulphated ash <= 0.1 %	Origin (BSE/TSE) Synthesis	Residual solvents (CPMP/ICH/283/95) Conform

Code	Size	Packaging
323101	ml 1000	Bottle
323102	ml 2500	Bottle
323105	kg 30	Metallic can

## Benzyl chloride

Benzile cloruro - Benzyle chlorure - Bencilo cloruro

C<sub>7</sub>H<sub>5</sub>CH<sub>2</sub>ClAtomic weight: 126.58  
CAS N: 100-44-7  
EEC N: 202-853-6

Transport classification

ONU n. 1738  
Transport class: 6.1  
Secondary risk: 8  
Packaging group: IIR: 45-22-23-37/38-41-48/22  
S: 53-45

## Benzyl chloride - Analytical Grade

RPE-For analysis



Assay (GLC) 99 + 100 %	Description Clear colourless liquid	Density at 20° C 1.097 + 1.103
Refractive index at 20° 1.5361 + 1.5421	Boiling point 178.8 + 179.8 ° C	Residue on evaporation <=50 ppm
Acidity (HCl) <=200 ppm		

Code	Size	Packaging
426861	ml 500	Glass bottle

## Benzylamine

Benzilammina - Benzylamine - Bencilamina

C<sub>7</sub>H<sub>9</sub>NAtomic weight: 107.15  
CAS N: 100-46-9  
EEC N: 202-854-1

Transport classification

ONU n. 2735  
Transport class: 8  
Packaging group: IIIR: 21/22-34  
S: 26-36/37/39-45

## Benzylamine - Analytical Grade

RPE-For analysis



Assay (GLC) >=99 %	Description Yellow clear liquid	Density at 20° C 0.979 + 0.983
Refractive index at 20° 1.5372 + 1.5432	Boiling point 184.5 + 185.5 ° C	Residue on ignition <=100 ppm

Code	Size	Packaging
426453	ml 100	Glass bottle

## O-Benzylhydroxylamine hydrochloride

O-Benzildrossilammina cloridrato - O-Benzylhydroxylamine chlorhydrate - O-B encilidrossilamonio cloridrato

C<sub>7</sub>H<sub>9</sub>NO.HClAtomic weight: 159.610  
CAS N: 2687-43-6  
EEC N: 220-249-0

## O-Benzylhydroxylamine hydrochloride - Analytical Grade

RPE-For analysis



Assay (argentimetric) 98 + 100 %	Description Scagliet bianche	Melting point 234 + 238 ° C
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Code	Size	Packaging
466621	g 10	Glass bottle

Derivatizer for chromatography

For further information on above products, see following product/application section(s)

Chromatography (p. 34)

## S-Benzylthiuronium chloride

Benzilisotiurea cloridrato - Benzylisothiourée chlorhydrate - Bencilisotiurea cloridrato

NH<sub>2</sub>C(SCH<sub>2</sub>C<sub>6</sub>H<sub>5</sub>)<sub>2</sub>.NH.HClAtomic weight: 202.70  
CAS N: 538-28-3  
EEC N: 208-688-6

Transport classification

ONU n. 2811  
Transport class: 6.1  
Packaging group: IIIR: 25  
S: 22-24/25-45

## S-Benzylthiuronium chloride - Analytical Grade

RPE-For analysis



Assay (argentimetric) >= 98 %	Description White shining crystals	Suitab.for sulphon.prec Conform
Loss on drying <=1 %	Residue on ignition <=500 ppm	

Code	Size	Packaging
426962	g 25	Glass jar

## Benzyltriethylammonium bromide

Benziltriethylammonio bromuro - Benzyltriethylammonium bromure - Benciltriethylammonio bromuro

$C_{16}H_{27}BrN$   
 Atomic weight: 272,220  
 CAS N: 5197-95-5  
 EEC N: 225-986-1

## Benzyltriethylammonium bromide - Analytical Grade

## RPE-For analysis



Assay (argentimetric) 98 + 100 % Description White crystalline powder Melting point 193 + 195 ° C

Code	Size	Packaging
426571	g 1000	Glass jar

## Benzyltriethylammonium chloride

Benziltriethylammonio cloruro - Benzyltriethylammonium chlorure - Benciltriethylammonio cloruro

$C_{16}H_{27}ClN$   
 Atomic weight: 227,78  
 CAS N: 56-37-1  
 EEC N: 200-270-1



R: 22  
 S: 24/25

## Benzyltriethylammonium chloride - Analytical Grade

## RPE-For analysis



Assay (argentimetric) 98 + 100 % Description Polvere e xx.ni bianchi

Code	Size	Packaging
426561	g 250	Glass jar

## Beryllium

Berillio - Béryllium - Berilio



R: 49-23  
 S: 45-53

## Beryllium - Special Grade

## RS-Standard solution for ICP



Code	Size	Packaging	Notes
503461	ml 100	Plastic bottle	Matrice: Hydrochloric acid, conc. 1.000 ppm
503465	ml 100	Plastic bottle	Matrice: Hydrochloric acid, conc. 10.000 ppm
503463	ml 500	Plastic bottle	Matrice: Hydrochloric acid, conc. 1.000 ppm
503467	ml 500	Plastic bottle	Matrice: Hydrochloric acid, conc. 10.000 ppm

Provided with real batch certificate. Verified against NIST Standard Reference

For further information on above products, see following product/application section(s)  
 Trace metal analysis (p. 86)

## RS-Standard solution for ICP-MS



Code	Size	Packaging	Notes
505331	ml 50	Plastic bottle	Matrice: Nitric acid, conc. 10 ppm
505332	ml 100	Plastic bottle	Matrice: Nitric acid, conc. 10 ppm
505335	ml 100	Plastic bottle	Matrice: Nitric acid, conc. 100 ppm

For further information on above products, see following product/application section(s)  
 Trace metal analysis (p. 86)

## Betaine

Betaina - Bétaine - Betaina

$(CH_3)_3NCH_2COO$   
 Atomic weight: 117,16  
 CAS N: 107-43-7  
 EEC N: 203-490-6

## Betaine - Analytical Grade

## RPE-For analysis



Assay (non-aqueous medium) >=99 % Description White crystalline powder Ammonium <=5 ppm  
 Chloride <=50 ppm Phosphate <=50 ppm Water-insoluble matter <=50 ppm  
 Heavy metals (Pb) <=20 ppm Residue on ignition <=100 ppm Sulphate <=500 ppm  
 Fe <=20 ppm

Code	Size	Packaging
427795	g 250	Glass jar

For biochemistry

## Bettendorf's reagent

Bettendorf reattivo soluzione in acido cloridrico - Réactif de Bettendorf - Bettendorf reattivo soluzione in acido cloridrico

**Transport classification**  
 ONU n. 3264  
 Transport class: 8  
 Packaging group: II



R: 34-37  
 S: 26-45

### Bettendorf's reagent - Special Grade

#### RS-For arsenic detection



Description Yellowish clear liquid

Code	Size	Packaging
427891	ml 250	Glass bottle

## Biphenyl

Bifenile - Diphényle - Bifenilo

**C<sub>12</sub>H<sub>10</sub>CaH<sub>10</sub>**  
 Atomic weight: 154,20  
 CAS N: 92-52-4  
 EEC N: 202-163-5

**Transport classification**  
 ONU n. 3077  
 Transport class: 9  
 Packaging group: III



R: 36/37/38-50/53  
 S: 23-60-61

### Biphenyl - Technical Grade

#### RE-Pure



Assay (GLC) >=99 % Description White yellowish powder Melting point 69.0 ± 71.0 ° C  
 Residue on ignition <=100 ppm

Code	Size	Packaging
443855	g 250	Plastic jar

## N,O-Bis(trimethylsilyl)acetamide

N,O-Bis (trimetilsilil)acetammide - n,o-Bis(triméthylsilyl)acétamide - N,O-Bis (trimetilsilil) acetamida

**CH<sub>3</sub>C[NSi(CH<sub>3</sub>)<sub>3</sub>O]Si(CH<sub>3</sub>)<sub>3</sub>**  
 Atomic weight: 203,43  
 CAS N: 10416-59-8  
 EEC N: 233-892-7

**Transport classification**  
 ONU n. 1993  
 Transport class: 3  
 Packaging group: II



R: 11  
 S: 3/7-9

### N,O-Bis(trimethylsilyl)acetamide - Analytical Grade

#### RPE-For analysis



Description Clear yellow liquid Density at 20° C ~ 0.835

Code	Size	Packaging
489933	ml 1	Glass vial
489934	ml 25	Glass bottle

Derivatizer for chromatography

For further information on above products, see following product/application section(s)  
 Chromatography (p. 34)

## N,O-Bis(trimethylsilyl)trifluoroacetamide

N,O-Bis (trimetilsilil)trifluoroacetammide - n,o-Bis(triméthylsilyl)trifluoroacétamide - N,O-Bis (trimetilsilil) trifluoroacetamida

**(CH<sub>3</sub>)<sub>3</sub>SiOC(CF<sub>3</sub>)<sub>2</sub>NSi(CH<sub>3</sub>)<sub>3</sub>**  
 Atomic weight: 257,40  
 CAS N: 21149-38-2  
 EEC N: 244-242-7

**Transport classification**  
 ONU n. 1993  
 Transport class: 3  
 Packaging group: III

R: 10

### N,O-Bis(trimethylsilyl)trifluoroacetamide - Analytical Grade

#### RPE-For analysis



Assay (GLC) >= 98 % Description Yellow clear liquid Density at 20° C <= 0.985

Code	Size	Packaging
489563	ml 1	Glass vial
489561	ml 25	Glass bottle

Derivatizer for chromatography

For further information on above products, see following product/application section(s)  
 Chromatography (p. 34)

## N,N'-Bis(trimethylsilyl)urea

N,N'-Bis (trimetilsilil)urea - n,n'-Bis(triméthylsilyl)urée - N,N'-Bis (trimetilsilil) urea

**(CH<sub>3</sub>)<sub>3</sub>SINHCONHSi(CH<sub>3</sub>)<sub>3</sub>**  
 Atomic weight: 204,420  
 CAS N: 18297-63-7  
 EEC N: 242-177-9

### N,N'-Bis(trimethylsilyl)urea - Analytical Grade

## N,N'-Bis(trimethylsilyl)urea - Analytical Grade



A

## RPE-For analysis

B

Description White crystalline powder Melting point 223 + 225 ° C

Code	Size	Packaging
466513	g 1	Glass bottle

Derivatizer for chromatography

For further information on above products, see following product/application section(s)  
Chromatography (p. 34)

## Bismarck brown

Bruno Bismarck R - Brun Bismarck - Pardo de Bismarck R

**C<sub>21</sub>H<sub>24</sub>N<sub>2</sub>O<sub>2</sub>·5HCl**  
Atomic weight: 461,41  
CAS N: 8005-78-5  
EEC N: 232-341-8



R: 20/21/22

C

D

E

F

## Bismarck brown - Special Grade



G

## RS-For microscopy-C.I. 21010

Description Brown powder E 1% / 1 cm a 460 nm 480 + 580

Code	Size	Packaging
431252	g 25	Glass jar

Stain for Bacteriology-hystology.

For further information on above products, see following product/application section(s)  
Microscopy (p. 58)

H

I

## Bismuth

Bismuto - Bismuth - Bismuto

Bi

Transport classification  
ONU n. 3264  
Transport class: 8  
Packaging group: II  
Packaging group: III

R: 34-37  
S: 26-45

J

K

## Bismuth - Special Grade

## RS-NORMEX-concentrated solution for AAS



L

Description Clear colourless liquid Titration factor 0.995 + 1.005

Code	Size	Packaging	Notes
428071	Ampoule	Glass vial	conc. 1.000 ppm

Concentrated volumetric solution to prepare 1 l of solution 1 mg/ml

For further information on above products, see following product/application section(s)  
Trace metal analysis (p. 86)

M

N

## RS-Standard solution for AAS



O

Description Clear colourless liquid Titration factor 0.998 + 1.002

Code	Size	Packaging	Notes
497455	ml 100	Glass bottle	conc. 1.000 ppm
497451	ml 500	Plastic bottle	conc. 1.000 ppm

Ready-to-use solution: concentration 1 mg/ml

## RS-Standard solution for ICP



P

Q

Code	Size	Packaging	Notes
503471	ml 100	Plastic bottle	Matrice: Nitric acid, conc. 1.000 ppm
503475	ml 100	Plastic bottle	Matrice: Nitric acid, conc. 10.000 ppm
503473	ml 500	Plastic bottle	Matrice: Nitric acid, conc. 1.000 ppm
503477	ml 500	Plastic bottle	Matrice: Nitric acid, conc. 10.000 ppm

Provided with real batch certificate. Verified against NIST Standard Reference

For further information on above products, see following product/application section(s)  
Trace metal analysis (p. 86)

R

S

T

## RS-Standard solution for ICP-MS



U

V

Code	Size	Packaging	Notes
505336	ml 50	Plastic bottle	Matrice: Nitric acid, conc. 10 ppm
505337	ml 100	Plastic bottle	Matrice: Nitric acid, conc. 10 ppm
505338	ml 100	Plastic bottle	Matrice: Nitric acid, conc. 100 ppm

For further information on above products, see following product/application section(s)  
Trace metal analysis (p. 86)

W

## Bismuth granules

Bismuto granelli - Bismuth en granules - Bismuto gránulos

**Bi**  
Atomic weight: 208,980  
CAS N: 7440-69-9  
EEC N: 231-177-4

X

Y

## Bismuth granules - Analytical Grade

Z

A  
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W  
X  
Y  
Z**Bismuth granules - Analytical Grade****RPE-For analysis**

Description Metallic granules Melting point ~ 272 °C

Code	Size	Packaging
428064	g 100	Glass jar

**Bismuth(III) carbonate basic***Bismuto carbonato basico - Bismuth carbonate basique - Bismuto carbonato básico***(BiO)<sub>2</sub>CO<sub>3</sub>**

Atomic weight: 509,97

CAS N: 5892-10-4

EEC N: 227-567-9

**Bismuth(III) carbonate basic - Analytical Grade****RPE-For analysis**

Assay (complexometric) 97.6 + 100.7 %	Description Yellowish powder	Loss on drying <= 1.0 %
Ag <= 25 ppm	As <= 5 ppm	Cu <= 50 ppm
Pb <= 20 ppm	Alkaly-alkaline earth <= 1.0 %	Chloride <= 0.05 %
Nitrate <= 0.4 %		

Code	Size	Packaging
428103	g 50	Glass jar
428105	g 250	Plastic jar

**Bismuth(III) carbonate basic - Pharmaceutical Grade****RPH-According to pharmacopoeia: Ph.Eur.-FU-Ph.Franc.-BP**

Assay (complexometric) 80.0 + 82.5 % s.s.	Description Yellowish powder	Appearance of solution Conform Ph.Eur.
Loss on drying <= 1.0 %	Chloride <= 500 ppm	Nitrate <= 0.4 %
Alkaline, alk. earth met. <= 1.0 %	Ag <= 25 ppm	As <= 5 ppm
Cu <= 50 ppm	Pb <= 20 ppm	Origin (BSE/TSE) Synthesis

Code	Size	Packaging
324005	g 250	Bottle
324007	g 1000	Bottle

**Bismuth(III) gallate basic***Bismuto gallato basico - Bismuth gallate basique - Bismuto galato básico***C<sub>7</sub>H<sub>6</sub>BiO<sub>6</sub>.H<sub>2</sub>O**

Atomic weight: 412,10

CAS N: 99-26-3

EEC N: 202-742-2

**Bismuth(III) gallate basic - Technical Grade****RE-Pure**

Assay (complexometric) 53.5 + 56.5 % s.s. Description Yellow powder

Code	Size	Packaging
324087	g 1000	Plastic jar

**Bismuth(III) iodide***Bismuto triioduro - Bismuth triiodure - Bismuth triiodure***BiI<sub>3</sub>**

Atomic weight: 589,76

CAS N: 7787-64-6

EEC N: 232-127-4

**Bismuth(III) iodide - Technical Grade****RE-Pure**

Assay (argentimetric) &gt;=97 % Description Grey- black granular powder Chloride &lt;=0.5 %

Code	Size	Packaging
428182	g 25	Glass jar

**Bismuth(III) nitrate***Bismuto nitrato - Bismuth nitrate - Bismuto nitrato***Bi(NO<sub>3</sub>)<sub>3</sub>.5H<sub>2</sub>O**

Atomic weight: 485,070

CAS N: 10035-06-0

EEC N: 233-791-8

**Transport classification**

ONU n. 1477

Transport class: 5.1

Packaging group: II

**Bismuth(III) nitrate - Analytical Grade**



## Bismuth(III) nitrate - Analytical Grade



## RPE-For analysis

Assay (complexometric) >=98.5 %	Description White crystals	Ammonium <=50 ppm
Chloride <=5 ppm	HNO <sub>3</sub> -insoluble matter <=30 ppm	Substances not ppt. H <sub>2</sub> S <=500 ppm
Sulphate <=40 ppm	Ag <=20 ppm	As <=1 ppm
Cu <=10 ppm	Fe <=10 ppm	Ni <=10 ppm
Pb <=20 ppm	Zn <=10 ppm	

Code	Size	Packaging
428234	g 100	Glass jar
428236	g 500	Glass jar

## Bismuth(III) nitrate - Technical Grade



## RE-Pure

Assay (complexometric) >=98 %	Description White crystals	Chloride <=350 ppm
Alkaly-alkaline earth <=0.5 %	Sulphate <=600 ppm	As <=10 ppm

Code	Size	Packaging
324185	g 250	Glass jar

## Bismuth(III) nitrate basic

Bismuto nitrato basico - Bismuth nitrate basique - Bismuto nitrato básico

**BINO<sub>3</sub>(OH)<sub>2</sub> BIO(OH)**  
 Atomic weight: 1462,0  
 CAS N: 1304-85-4  
 EEC N: 215-136-8

**Transport classification**  
 ONU n. 1477  
 Transport class: 5.1  
 Packaging group: II

## Bismuth(III) nitrate basic - Analytical Grade



## RPE-For analysis

Assay (complexometric) 79.0 + 82.0 %	Description White powder	Ammonium <=50 ppm
Carbonate <=20 ppm	Chloride <=20 ppm	HNO <sub>3</sub> -insoluble matter <=50 ppm
Substances not ppt. H <sub>2</sub> S <=0.2 %	Sulphate <=50 ppm	Ag <=20 ppm
As <=2 ppm	Cu <=10 ppm	Fe <=10 ppm
Ni <=10 ppm	Pb <=30 ppm	Zn <=20 ppm

Code	Size	Packaging
428284	g 100	Glass jar
428286	g 500	Glass jar

Dragendorff's reagent

## RPE-For analysis-Reag. Ph.Eur.



Assay (complexometric) 79.0 + 82.0 %	Description White powder
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Code	Size	Packaging
428294	g 100	Glass bottle

For further information on above products, see following product/application section(s)  
 Chromatography (p. 34)

## Bismuth(III) nitrate basic - Pharmaceutical Grade



## RPH-According to pharmacopoeia: USP

Assay (complexometric) >= 79.0 % s.s.	Description White powder	Carbonate Conform USP-NF
Ammoniacal salts Conform USP-NF	Sulphate Conform USP-NF	Ag Conform USP-NF
Cu Conform USP-NF	Pb Conform USP-NF	Loss on drying <= 3.0 %
Chloride <= 350 ppm	Alkaline,alk.earth met. <= 0.5 %	As <= 8 ppm
Apparent density <= 600 g/l	Origin (BSE/TSE) Synthesis	Residual solvents (CPMP/ICH/283/95) Conform

Code	Size	Packaging
324251	g 250	Glass jar
324251	g 250	Glass jar
324335	g 250	Bottle
324337	g 1000	Bottle

## Bismuth(III) oxychloride

Bismuto ossicloruro - Bismuth oxychlorure - Bismuto oxicloruro

**BiOCl**  
 Atomic weight: 260,43  
 CAS N: 7787-59-9  
 EEC N: 232-122-7

## Bismuth(III) oxychloride - Analytical Grade



## RPE-For analysis

Assay (complexometric) >=98 %	Description White powder	HNO <sub>3</sub> -insoluble matter <=100 ppm
Substances not ppt. H <sub>2</sub> S <=0.1 %	Sulphate <=10 ppm	As <=5 ppm
Cu <=10 ppm	Fe <=20 ppm	Ni <=10 ppm
Pb <=10 ppm	Zn <=10 ppm	

Code	Size	Packaging
428335	g 250	Plastic jar

A

## Bismuth(III) salicylate basic

*Bismuto salicilato basico - Bismuth salicylate basique - Bismuto salicilato básico*

B

**HOC<sub>2</sub>H<sub>4</sub>COOBiO**  
 Atomic weight: 362,04  
 CAS N: 7460-14-2  
 EEC N: 231-244-8

C

## Bismuth(III) salicylate basic - Pharmaceutical Grade

## RPH-According to pharmacopoeia: Ph.Eur.-FU



Assay (complexometric) 57.0 + 60.0 %Bi s.s.	Description White powder	Loss on drying <= 1.0 %
Chloride <= 200 ppm	Nitrate <= 0.4 %	Acidity Conform Ph.Eur.
Cu <= 50 ppm	Pb <= 20 ppm	Ag <= 25 ppm
Soluble bismuth <= 40 ppm	Origin (BSE/TSE) Synthesis	Residual solvents (CPMP/ICH/283/95) Conform

Code	Size	Packaging
324704	g 100	Plastic jar

D

E

F

## Biuret

*Biureto - Biuret - Biuret*

**NH<sub>2</sub>CONHCONH<sub>2</sub>**  
 Atomic weight: 103,08  
 CAS N: 108-19-0  
 EEC N: 203-559-0

## Biuret - Special Grade

## RS-For microscopy



Description White crystalline powder	Melting point 187 + 194 °C	Loss on drying <= 1 %
Separazione (TLC) >= 96.0 %		

Code	Size	Packaging
428432	g 25	Glass jar

G

H

I

J

K

## Boric acid powder

*Acido borico polvere - Acide borique en poudre - Acido bórico en polvo*

**H<sub>3</sub>BO<sub>3</sub>**  
 Atomic weight: 61,843  
 CAS N: 10043-35-3  
 EEC N: 233-139-2

## Boric acid powder - Pharmaceutical Grade

## RPH-According to pharmacopoeia: Ph.Eur.-NF-FU-Ph.Franc.-BP-DAB



Assay (acidimetric) 99.5 + 100.5 % s.s.	Assay (acidimetric) 99.0 + 100.5 % t.q.	Description White crystalline powder
Appearance of solution Conform Ph.Eur.	Alcohol solubility Conform Ph.Eur.	Organic substances Conform Ph.Eur.
pH (sol. 3.3 %) 3.8 + 4.8	Loss (silica gel) <=0.5 %	Sulphate <=450 ppm
Fe <=10 ppm	Heavy metals (Pb) <=15 ppm	Origin (BSE/TSE) Synthesis
Residual solvents (CPMP/ICH/283/95) Conform		

Code	Size	Packaging
302177	g 1000	Plastic jar
302179	g 5000	Plastic jar
302178	kg 25	Fibre drum
302174	kg 50	Sack

L

M

N

O

P

Q

R

## Boric acid flakes

*Acido borico scaglie - Acide borique en écailles - Acido bórico en escamas*

**H<sub>3</sub>BO<sub>3</sub>**  
 Atomic weight: 61,843  
 CAS N: 10043-35-3  
 EEC N: 233-139-2

## Boric acid flakes - Technical Grade

## RE-Pure



Assay >=99 %	Description White flakes
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Code	Size	Packaging
302227	g 1000	Bag
302229	g 5000	Plastic jar

S

T

U

V

W

## Boric acid

*Acido borico - Acide borique - Acido bórico*

**H<sub>3</sub>BO<sub>3</sub>**  
 Atomic weight: 61,843  
 CAS N: 10043-35-3  
 EEC N: 233-139-2

## Boric acid - Analytical Grade

X

Y

Z

## Boric acid - Analytical Grade

## RPE-ACS-ISO-for analysis-Reag. Ph.Eur.-Reag. USP



Assay (acidimetric) 99.5 + 100.5 % s.s.	Description White crystalline powder	Chloride <=10 ppm
Phosphate <=10 ppm	Sulphate <=100 ppm	Heavy metals (Pb) <=10 ppm
Ca <=50 ppm	Fe <=10 ppm	Insoluble in methanol <=50 ppm
Nonvolatile with methanol <=500 ppm	Appearance of solution Conform	Alcohol solubility Conform
Organic substances Conform	pH solution 3.3% 3.8 + 4.8	Loss on drying <=0.5 %

Code	Size	Packaging
402766	g 500	Plastic jar
402767	g 1000	Plastic jar
402765	g 10000	Plastic jar
402764	kg 50	Fibre drum

## Boric acid - Special Grade

## RS-For molecular biology



Assay >= 99.5 %	Appearance White powder	Heavy metals (Pb) <= 10 ppm
Iron (Fe) <= 10 ppm	Absorbance (0.1M in water)	at 260 nm <= 0.02 AU
at 280 nm <= 0.02 AU		

Code	Size	Packaging
600641	g 500	Plastic bottle

White powder

## Boric acid - Pharmaceutical Grade

## RPH-According to pharmacopoeia: NF



Assay (acidimetric) 99.5 + 100.5 % s.s.	Description White crystalline powder	Appearance of solution Conform NF
Alcohol solubility Conform NF	Loss on drying <=0.5 %	Fe <=10 ppm
Heavy metals (Pb) <=20 ppm	Origin (BSE/TSE) Synthesis	Residual solvents (CPMP/ICH/283/95) Conform

Code	Size	Packaging
302185	kg 25	Drum

## Boric Acid 4%

Acido bórico 4% - Acide borique 4% - Acido bórico 4%

**H<sub>3</sub>BO<sub>3</sub>**

Atomic weight: 61,843

CAS N: 10043-35-3

EEC N: 233-139-2

## Boric Acid 4% - Special Grade

## RS-For agroalimentary analysis



Assay 3.975 + 4.025 %	Description Clear colourless liquid
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Code	Size	Packaging
502002	ml 5000	Plastic drum

According to NF V04-387 H<sub>3</sub>BO<sub>3</sub>: 40 g/l in water 1000 ml

For further information on above products, see following product/application section(s)

Agriculture and food sector analyses (p. 25)

## Boric Acid 4 % with indicator

Acido bórico 4% con indicatore - Acide borique 4% avec indicateur - Acido bórico 4% con indicador

**H<sub>3</sub>BO<sub>3</sub>**

Atomic weight: 61,843

CAS N: 10043-35-3

EEC N: 233-139-2

## Boric Acid 4 % with indicator - Special Grade

## RS-For agroalimentary analysis



Assay 3.975 + 4.025 %	Description Clear mauve liquid
-----------------------	--------------------------------

Code	Size	Packaging
502601	ml 5000	Plastic drum

According to NF V04-211 H<sub>3</sub>BO<sub>3</sub>: 40 g/l in water 1000 ml.

For further information on above products, see following product/application section(s)

Agriculture and food sector analyses (p. 25)

## Boric Acid 1% with indicator

Acido bórico 1% con indicatore - Acide borique 1% avec indicateur - Acido bórico 1% con indicador

**H<sub>3</sub>BO<sub>3</sub>**

Atomic weight: 61,843

CAS N: 10043-35-3

EEC N: 233-139-2

## Boric Acid 1% with indicator - Special Grade

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
M  
N  
O  
P  
Q  
R  
S  
T  
U  
V  
W  
X  
Y  
Z

**Boric Acid 1% with indicator - Special Grade**

**RS-For agroalimentary analysis**

Assay 0.993 + 1.007 % Description Clear mauve liquid

Code	Size	Packaging
502611	ml 5000	Plastic drum

According to NF V04-211 H3BO3: 10 g/l in water 1000 ml

For further information on above products, see following product/application section(s)  
Agriculture and food sector analyses (p. 25)

**Borneol**

(-)-Borneolo - Bornéol - Borneol

CH2CH2C(CH3)[C(CH3)2]CHCH2CHOH  
 Atomic weight: 154,25  
 CAS N: 464-45-9  
 EEC N: 207-353-1

Transport classification  
 ONU n. 1312  
 Transport class: 4.1  
 Packaging group: III

**Borneol - Technical Grade**

**RE-Pure**

Description White crystals Melting point 104.0 + 108.0 ° C Residue on ignition <=10 ppm

Code	Size	Packaging
429534	g 100	Glass jar

**Boron crystals**

Boro cristalli - Bore cristallisé - Boro cristalizado

B  
 Atomic weight: 10,83  
 CAS N: 7440-42-8  
 EEC N: 231-151-2

R: 22

**Boron crystals - Analytical Grade**

**RPE-For analysis**

Assay >=99.5 % Description Grey crystals

Code	Size	Packaging
429637	g 1	Glass bottle

**Boron**

Boro - Bore - Boro

B

**Boron - Special Grade**

**RS-NORMEX-concentrated solution for AAS**

Description Clear colourless liquid Titration factor 0.995 + 1.005

Code	Size	Packaging	Notes
429641	Ampoule	Glass vial	conc. 1.000 ppm

Concentrated volumetric solution to prepare 1 l of solution 1 mg/ml

For further information on above products, see following product/application section(s)  
 Trace metal analysis (p. 86)

**RS-Standard solution for AAS**

Description Clear colourless liquid Titration factor 0.998 + 1.002

Code	Size	Packaging	Notes
497465	ml 100	Glass bottle	conc. 1.000 ppm
497461	ml 500	Plastic bottle	conc. 1.000 ppm

Ready-to-use solution: concentration 1 mg/ml

**RS-Standard solution for ICP**

Code	Size	Packaging	Notes
503441	ml 100	Plastic bottle	Matrice: Water, conc. 1.000 ppm
503445	ml 100	Plastic bottle	Matrice: Water, conc. 10.000 ppm
503443	ml 500	Plastic bottle	Matrice: Water, conc. 1.000 ppm
503447	ml 500	Plastic bottle	Matrice: Water, conc. 10.000 ppm

Provided with real batch certificate. Verified against NIST Standard Reference

For further information on above products, see following product/application section(s)  
 Trace metal analysis (p. 86)

## Boron - Special Grade

## RS-Standard solution for ICP-MS



Code	Size	Packaging	Notes
505321	ml 50	Plastic bottle	Matrice: Water, conc. 10 ppm
505322	ml 100	Plastic bottle	Matrice: Water, conc. 10 ppm
505325	ml 100	Plastic bottle	Matrice: Water, conc. 100 ppm

For further information on above products, see following product/application section(s)

Trace metal analysis (p. 86)

## Boron trifluoride 10%

**BF<sub>3</sub>**

Atomic weight: 67,81  
CAS N: 16045-88-8

Transport classification

ONU n. 3286

Transport class: 3

Secondary risk: 6,18

Packaging group: II



R: 11-23/24/25-34-39/23/24/25  
S: 7-16-26-36/37/39-45

## Boron trifluoride 10% - Analytical Grade

## RPE-For analysis



Assay (acidimetric) >=10 Description Clear colourless liquid

Code	Size	Packaging
429704	ml 250	Plastic bottle
429702	ml 1000	Plastic bottle

## Boron trifluoride ethyl etherate

*Boro trifluoruro-etere etilico - Bore trifluorure éthérate - Boro trifluoruro complejo etereo*

**BF<sub>3</sub>(C<sub>2</sub>H<sub>5</sub>)<sub>2</sub>O**

Atomic weight: 141,94  
CAS N: 109-63-7  
EEC N: 203-689-8

Transport classification

ONU n. 2604

Transport class: 8

Secondary risk: 3

Packaging group: I



R: 10-34-20/22-48/23-52/53  
S: 23-36/37/39-26-45-61

## Boron trifluoride ethyl etherate - Analytical Grade

## RPE-For analysis



Assay (acidimetric) >=47 % Description Liq. lim p. giall o bruno Density at 20° C 1.124 ± 1.128  
Boiling point 128 ± 130 ° C

Code	Size	Packaging
429687	ml 1000	Glass bottle

## Bovine bile purified and dried

*Bile bovina depurata secca - Bile bovine purifiée et séchée - Bilis bovina depurada y seca*

## Bovine bile purified and dried - Technical Grade

## RE-Pure



Description Polvere nocciola verdas.

Code	Size	Packaging
323804	g 100	Plastic jar
323807	g 1000	Plastic jar

## Bray's solution

*Soluzione di Bray - Solution de Bray - Solución de Bray*



R: 11-20/21/22-40/20/21/22  
S: 16-26-36/37

## Bray's solution - Special Grade

## RS-For liquid scintillation counting



Description Liquido fluoresc Density at 20° C >=1.019

Code	Size	Packaging
484712	ml 2500	Glass bottle

## Brillant cresyl blue

*Blu cresile brillante - Bleu de crésyl brillant - Azul de cresilo brillante*

**C<sub>17</sub>H<sub>14</sub>CIN<sub>4</sub>O**

Atomic weight: 332,800  
CAS N: 4712-70-3  
EEC N: 225-203-3



R: 20/21/22

## Brillant cresyl blue - Special Grade

## Brilliant cresyl blue - Special Grade

## RS-For microscopy



Description Polvere verde-bluastro scura E (1%/1cm) a 622 nm (in ETOH 50%) 1500 + 1700

Code	Size	Packaging
428811	g 10	Glass jar

Stain for Cytology-haematology.

For further information on above products, see following product/application section(s)

Microscopy (p. 58)

## Brilliant green

Verde brillante - Vert brillant - Verde brillante

C<sub>27</sub>H<sub>34</sub>NaO<sub>4</sub>S

Atomic weight: 482,64

CAS N: 633-03-4

EEC N: 211-190-1



R: 20/21/22

S: 22-24/25

## Brilliant green - Analytical Grade

## RPE-For analysis-C.I. 42040



Description Green crystalline powder Loss on drying &lt;= 10 % Colour change yellow green

Code	Size	Packaging
491152	g 25	Glass jar

Stain for Microscopy (bacteriology-botany-hystology) Indicator (pH 0,1+2,6).

For further information on above products, see following product/application section(s)

Microscopy (p. 58)

## Bromate

Bromati - Bromate - Bromati

## Bromate - Special Grade

## RS-Standard solution for ion chromatography



Code	Size	Packaging	Notes
503170	ml 50	Plastic bottle	conc. 1.000 ppm
503171	ml 100	Plastic bottle	conc. 1.000 ppm
503172	ml 250	Plastic bottle	conc. 1.000 ppm
503173	ml 500	Plastic bottle	conc. 1.000 ppm

For further information on above products, see following product/application section(s)

Chromatography (p. 34)

## Bromide

Bromuri - Bromure - Bromuri

## Bromide - Special Grade

## RS-Standard solution for ion chromatography



Code	Size	Packaging	Notes
503210	ml 50	Plastic bottle	conc. 1.000 ppm
503211	ml 100	Plastic bottle	conc. 1.000 ppm
503212	ml 250	Plastic bottle	conc. 1.000 ppm
503213	ml 500	Plastic bottle	conc. 1.000 ppm

For further information on above products, see following product/application section(s)

Chromatography (p. 34)

## Bromine

Bromo - Brome - Bromo

Br<sub>2</sub>

Atomic weight: 159,818

CAS N: 7726-95-6

EEC N: 231-778-1

Transport classification

ONU n. 1744

Transport class: 8

Secondary risk: 6.1

Packaging group: I



R: 26-35-50

S: 7/9-26-45-61

## Bromine - Analytical Grade

## RPE-For analysis



Assay (oxidimetric) &gt;=99.9 %

Density at 20° C ~ 3.12

Iodine &lt;=1 ppm

Water (KF) &lt;=300 ppm

Description Dark red liquid

Residue on evaporation &lt;=100 ppm

Heavy metals (Pb) &lt;=2 ppm

Brominated organ.impur. Conform

Total chlorine &lt;=500 ppm

Total sulphur &lt;=30 ppm

Code	Size	Packaging
429834	ml 250	Bottle

## Bromine - Technical Grade

## Bromine - Technical Grade

## RE-Pure



Assay (oxidimetric) >= 99.9 %	Description Dark red liquid	Chlorine <= 0.05 %
Iodine <= 1 ppm	Total sulphur <= 30 ppm	Heavy metals (Pb) <= 2 ppm
Water <= 0.03 %	Residue on evaporation <= 100 ppm	Density at 20°C ~ 3.12

Code	Size	Packaging
325002	ml 250	Glass bottle

## p-Bromoaniline

*p-Bromo anilina - p-Bromoaniline - p-Bromo anilina***C<sub>6</sub>H<sub>6</sub>NBr**Atomic weight: 172,03  
CAS N: 106-40-1  
EEC N: 203-393-9**Transport classification**ONU n. 2811  
Transport class: 6.1  
Packaging group: IIR: 23/24/25-33  
S: 28-36/37-45**Synonyms**  
Bromobenzène amine

## p-Bromoaniline - Analytical Grade

## RPE-For analysis



Assay (non-aqueous medium) >=99 %	Description White crystalline powder	Melting point 62.5 + 64.5 ° C
Bromide <=50 ppm	Heavy metals (Pb) <=20 ppm	Residue on ignition <=100 ppm
Total sulphur <=50 ppm	Fe <=10 ppm	

Code	Size	Packaging
430022	g 25	Glass jar

## Bromocresol Green

*Verde bromocresolo - Vert de bromocrésol - Verde de bromocresol***C<sub>21</sub>H<sub>14</sub>Br<sub>2</sub>O<sub>3</sub>S**Atomic weight: 698,05  
CAS N: 76-60-8  
EEC N: 200-972-8R: 20/22  
S: 22-24

## Bromocresol Green - Analytical Grade

## RPE-ACS-for analysis



Description Beige powder	Appearance of solution Conform	Colour change yellow-blue
pH range 3.8 + 5.4		

Code	Size	Packaging
491207	g 1	Glass bottle

Indicator according to Clarck.

**For further information on above products, see following product/application section(s)**  
Indicators (p. 50)

## Bromocresol Green 0.04% hydroalcoholic solution

**C<sub>21</sub>H<sub>14</sub>Br<sub>2</sub>O<sub>3</sub>S**Atomic weight: 698,050  
CAS N: 76-60-8  
EEC N: 200-972-8**Transport classification**ONU n. 1993  
Transport class: 3  
Packaging group: III

R: 10

## Bromocresol Green 0.04% hydroalcoholic solution - Analytical Grade

## RPE-For analysis



Description Clear green liquid	Sensitivity(pH 4.0-5.4) Conform	Colour change yellow blue
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Code	Size	Packaging
491255	ml 250	Bottle

Indicator according to Clarck (pH 3,8+5,4).

## Bromocresol Purple

*Porpura bromocresolo - Pourpre de bromocrésol - Púrpura de bromocresol***C<sub>21</sub>H<sub>16</sub>Br<sub>2</sub>O<sub>3</sub>S**Atomic weight: 540,24  
CAS N: 115-40-2  
EEC N: 204-087-8**Transport classification**ONU n. 3143  
Transport class: 6.1  
Packaging group: III

R: 20/21/22

## Bromocresol Purple - Analytical Grade

## RPE-For analysis



Description Pink powder	Colour change Purple - yellow	pH range 5.2 + 6.8
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Code	Size	Packaging
470038	g 5	Jar

Indicator according to Clarck (pH 5,2+6,8)

**For further information on above products, see following product/application section(s)**  
Chromatography (p. 34)

## Bromocresol Purple solution 0.4% in ethanol

**C<sub>21</sub>H<sub>16</sub>Br<sub>2</sub>O<sub>6</sub>S**

Atomic weight: 540,240  
CAS N: 115-40-2  
EEC N: 204-087-8

Transport classification

ONU n. 1993  
Transport class: 3  
Packaging group: III

R: 10

### Bromocresol Purple solution 0.4% in ethanol - Analytical Grade

#### RPE-For analysis



Description Red clear liquid pH range 5.2 - 6.8

Code	Size	Packaging
470045	ml 250	Bottle

Indicator according to Clarck (pH 5,2-6,8)

## Bromoform

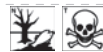
Bromoformio - Bromoforme - Bromoformo

**CHBr<sub>3</sub>**

Atomic weight: 252,75  
CAS N: 75-25-2  
EEC N: 200-854-6

Transport classification

ONU n. 2515  
Transport class: 6.1  
Packaging group: III



R: 23-36/38-51/53  
S: 28-45-61

### Bromoform - Analytical Grade

#### RPE-For analysis



Assay (GLC) >=98 %	Description Clear colourless liquid	Alcohol miscibility complete
Diethyl ether miscib. complete	Ready carbonizable substances Conform	Density at 20° C 2.820 ± 2.860
Refractive index at 20° 1.5936 + 1.6016	Boiling point 149.0 + 150.0 °C	Water (K.F.) <=0.1 %
Residue on evaporation <=50 ppm	Acidity (bromidric ac.) <=50 ppm	Free Bromine <=0.1 ppm
Bromide <=20 ppm		

Code	Size	Packaging
430575	ml 250	Glass bottle
430579	ml 2500	Glass bottle

Stabilized with ~1% of ethanol

### Bromoform - Technical Grade

#### RE-Pure



Assay (GLC) >=98 %	Description Clear colourless liquid	Density at 20° C ~ 2.820
Boiling point ~ +149 °C		

Code	Size	Packaging
325205	ml 250	Glass bottle
325208	ml 2500	Glass bottle

Stabilized with 1% of ethanol.

## α-Bromonaphthalene

alfa-Bromo naftalene - alpha-Bromonaphtalène - alpha-Bromonaftaleno

**C<sub>10</sub>H<sub>7</sub>Br**

Atomic weight: 207,07  
CAS N: 90-11-9  
EEC N: 201-965-2

### α-Bromonaphthalene - Analytical Grade

#### RPE-For analysis



Assay (GLC) >=99 %	Description Yellow clear liquid	Density at 20° C 1.479 + 1.485
Refractive index at 20° 1.6562 + 1.6602	Melting point 2.0 + 4.0 °C	Residue on ignition <=100 ppm

Code	Size	Packaging
430652	ml 500	Glass bottle

For further information on above products, see following product/application section(s)  
Microscopy (p. 58)

## Bromophenol blue

Blu bromofenolo - Bleu de bromophénol - Azul de bromofenol

**C<sub>19</sub>H<sub>10</sub>Br<sub>2</sub>O<sub>3</sub>S**

Atomic weight: 669,990  
CAS N: 115-39-9  
EEC N: 204-086-2



R: 20/21/22

### Bromophenol blue - Analytical Grade



## Bromophenol blue - Analytical Grade



## RPE-ACS-for analysis

Description Pink crystalline powder Appearance of solution Conform Colour change yellow blue  
pH range 3.0 - 4.6

Code	Size	Packaging
428658	g 5	Glass jar
428653	g 50	Glass jar
428655	g 500	Plastic jar

Indicator according to Clark

For further information on above products, see following product/application section(s)  
Indicators (p. 50)

## Bromophenol blue sodium salt

Blu bromofenolo sale sodico - Bleu de bromophénol sel sodique - Azul de bromofenol sal sódica

**C<sub>19</sub>H<sub>10</sub>O<sub>5</sub>SBraNa**  
Atomic weight: 691,97  
CAS N: 62625-28-9  
EEC N: 263-653-2

Transport classification  
ONU n. 3143  
Transport class: 6.1  
Packaging group: III



R: 20/21/22  
S: 22

## Bromophenol blue sodium salt - Analytical Grade



## RPE-For analysis

Description Red crystalline powder

Code	Size	Packaging
428681	g 25	Plastic jar
428685	g 500	Bottle

Stain for Microscopy.

For further information on above products, see following product/application section(s)  
Indicators (p. 50)

## Bromophenol blue solution 0.02%

Blu bromofenolo soluzione 0,02% - Bleu de bromophénol en solution à 0,02% - Azul de bromofenol solución 0.02%

**C<sub>19</sub>H<sub>10</sub>Br<sub>2</sub>O<sub>5</sub>S**  
Atomic weight: 669,990  
CAS N: 115-39-9  
EEC N: 204-086-2

## Bromophenol blue solution 0.02% - Analytical Grade



## RPE-For analysis

Description Clear purple liquid

Code	Size	Packaging
428691	ml 100	Glass bottle

Stain for Microscopy.

## Bromophenol blue solution 0.4% in ethanol

**C<sub>19</sub>H<sub>10</sub>Br<sub>2</sub>O<sub>5</sub>S**  
CAS N: 115-39-9  
EEC N: 204-086-2

Transport classification  
ONU n. 1993  
Transport class: 3  
Packaging group: III

R: 10

## Bromophenol blue solution 0.4% in ethanol - Analytical Grade



## RPE-For analysis

Description Red liquid Colour change yellow blue pH range 3.0 - 4.6

Code	Size	Packaging
428665	ml 250	Bottle

Indicator according to Clark (pH 3,0-4,6)

## Bromophenol red

Rosso bromofenolo - Rouge de bromophénol - Rojo de bromofenol

**C<sub>19</sub>H<sub>12</sub>Br<sub>2</sub>SO<sub>3</sub>**  
Atomic weight: 512,19  
CAS N: 2800-80-8  
EEC N: 220-538-1

Transport classification  
ONU n. 3143  
Transport class: 6.1  
Packaging group: III



R: 20/21/22

## Bromophenol red - Analytical Grade



## RPE-For analysis

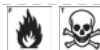
Description Red brown powder Residue on ignition <=2 % Colour change yellow - red  
pH range 5.2 - 6.8

Code	Size	Packaging
476651	g 1	Glass bottle

Indicator (pH 5,2=6,8).

## 2-Bromopropane

2-Bromo propano - 2-Bromopropane - 2-Bromo propano

**C<sub>3</sub>H<sub>7</sub>Br**Atomic weight: 123,00  
CAS N: 75-26-3  
EEC N: 200-855-1Transport classification  
ONU n. 2344  
Transport class: 3  
Packaging group: IIR: 60-11-48/20-66  
S: 16-53-45Synonyms  
Isopropyle bromure

## 2-Bromopropane - Analytical Grade

## RPE-For analysis

Assay (GLC) >=99 % Description Yellow clear liquid Density at 20° C >=1.31  
Boiling point 58 ± 60 °C

Code	Size	Packaging
430953	ml 250	Glass bottle

## Bromopyrogallol red

Rosso bromopirogallolo - Rouge de bromopyrogallol - Rojo de bromopirogalol

**C<sub>10</sub>H<sub>10</sub>O<sub>5</sub>SBr<sub>2</sub>**Atomic weight: 558,19  
CAS N: 16574-43-9  
EEC N: 240-632-6Transport classification  
ONU n. 3143  
Transport class: 6.1  
Packaging group: III

R: 20/21/22

## Bromopyrogallol red - Analytical Grade

## RPE-For analysis

Description Pv verde scura brunastri Sensitivity as metalochromic indicator Conform Residue on ignition &lt;=1 %

Code	Size	Packaging
476661	g 1	Glass bottle

Complexometry indicator. For the analysis of Bi, Cd, Co, Mg, Mn, Ni e lanthanides and Actinides

For further information on above products, see following product/application section(s)  
Indicators (p. 50)

## N-Bromosuccinimide

N-Bromo succinimide - N-Bromosuccinimide - N-Bromosuccinimida

**CH<sub>2</sub>CONBrCOCH<sub>2</sub>**Atomic weight: 178,00  
CAS N: 128-08-5  
EEC N: 204-877-2Transport classification  
ONU n. 1759  
Transport class: 8  
Packaging group: IIIR: 22-36/37/38  
S: 26-36Synonyms  
1-Bromo-2,5-pyrrolinedione

## N-Bromosuccinimide - Analytical Grade

## RPE-For analysis

Assay (iodometric) 98.5 ± 101.5 % s.s. Description Yellowish crystalline powder Identification (I.R.) Conform  
Loss on drying <= 1 %

Code	Size	Packaging
430995	g 500	Glass jar

## Bromothymol blue

Blu bromotimolo - Bleu de bromothymol - Azul de bromotimol

**C<sub>27</sub>H<sub>27</sub>Br<sub>2</sub>O<sub>3</sub>S**Atomic weight: 624,41  
CAS N: 76-59-5  
EEC N: 200-971-2

R: 20/21/22

## Bromothymol blue - Analytical Grade

## RPE-ACS-for analysis

Description Brown powder Appearance of solution Conform Colour change yellow-blue  
pH range 6.0 - 7.6

Code	Size	Packaging
428708	g 5	Glass jar
428703	g 50	Glass jar

Indicator according to Clark.

## Bromothymol blue 0,02%

Blu bromotimolo soluzione 0,02% - Bleu de bromothymol en solution à 0,02% - Azul de bromotimol solución 0.02%

**C<sub>27</sub>H<sub>27</sub>Br<sub>2</sub>O<sub>3</sub>S**Atomic weight: 624,410  
CAS N: 76-59-5  
EEC N: 200-971-2

## Bromothymol blue 0,02% - Analytical Grade

## Bromothymol blue 0,02% - Analytical Grade



## RPE-For analysis

Description Dark green liquid pH at 20° C 6.7 + 6.9

Code	Size	Packaging
428731	ml 100	Glass bottle

Stain for Microscopy.

## Bromothymol blue 0.4% in ethanol

C27H26Br2O5S

Atomic weight: 624.410

CAS N: 76-59-5

EEC N: 200-971-2

Transport classification

ONU n. 1993

Transport class: 3

Packaging group: III

R: 10

## Bromothymol blue 0.4% in ethanol - Analytical Grade



## RPE-For analysis

Description Dark green liquid Colour change yellow blue pH (Hydralcoholic sol.) Conform 6.0 7.6

Code	Size	Packaging
428715	ml 250	Bottle

Indicator according to Clarck.

## p-Bromotoluene

*p*-Bromo toluene - Bromo-4-toluène - 4-Bromo toluenoBrC6H4CH3

Atomic weight: 171.04

CAS N: 106-38-7

EEC N: 203-391-8

R: 20  
S: 24/25

## p-Bromotoluene - Analytical Grade



## RPE-For analysis

Assay (GLC) 98 + 100 % Description White crystals Boiling point 183.5 + 185.5 ° C  
Melting point 25.1 + 27.7 ° C Alkalinity (Ca(OH)<sub>2</sub> <=500 ppm Residue on ignition <=100 ppm

Code	Size	Packaging
431104	g 100	Glass bottle

## Brucine hydrate

Brucina idrata - Brucine hydratée - Brucina hidrata

C22H26N2O4.H2O

Atomic weight: 430.50

CAS N: 145428-94-0

EEC N: 206-614-7

Transport classification

ONU n. 1570

Transport class: 6.1

Packaging group: I

R: 26/28-52/53  
S: 13-45-61

## Brucine hydrate - Analytical Grade



## RPE-For analysis

Assay (non-aqueous medium) >= 98.5 % s.s. Description Ivory-white powder Melting point 174 + 179 ° C  
Loss on drying 7 + 9 % Residue on ignition <= 0.1 % Potere rotat. spec. (C=2.5 in CHCl<sub>3</sub>) -118 + -128 °

Code	Size	Packaging
431151	g 10	Glass jar

For the analysis of nitrates

## Brucine sulphate

Brucina solfato - Brucine sulfate - Brucina solfato

(C22H26N2O4)2.H2SO4.nH2O

Atomic weight: 887,03 (ANHYDR.)

CAS N: 4845-99-2

EEC N: 225-432-9

Transport classification

ONU n. 1544

Transport class: 6.1

Packaging group: II

R: 26/28-52/53  
S: 13-45-61

## Brucine sulphate - Analytical Grade



## RPE-ACS-for analysis

Description White powder Appearance of solution Conform Loss on drying <= 13.0 %  
Nitrate sensitivity Conform Residue on calcination <= 0.1 %

Code	Size	Packaging
431201	g 10	Glass jar

## Buffer pH 7.20 Weise

Tampone pH 7.20 secondo Weise - Tampon pH 7,20 selon Weise - Tampón pH 7,20 según Weise

## Buffer pH 7.20 Weise - Special Grade

## Buffer pH 7.20 Weise - Special Grade

## RS-ml 500-buffer solution colourless



Description Clear colourless liquid pH at 20° C 7.2 ± 0.05

Code	Size	Packaging
486411	ml 500	Glass bottle

For further information on above products, see following product/application section(s)  
Microscopy (p. 58)

## Buffer solution ready-to-use

Tamponi in soluzione pronta all'uso - Tampons en solution prêt à l'emploi - Tampones en solución pronta al uso

## Buffer solution ready-to-use - Analytical Grade

## RPE-For exact calibrations-500 ml colourless solution



Description Clear colourless liquid pH at 25°C 3.54 ± 3.58

Code	Size	Packaging	Notes
486741	ml 500	Bottle	pH 3.56 - Chemical composition: Potassium hydrogen tartrate
486751	ml 500	Bottle	pH 1.68 - Chemical composition: Potassium hydrogen tetra-oxalate
486771	ml 500	Bottle	pH 11.00 - Chemical composition: Disodium hydrogen phosphate / Sodium hydroxide
486841	ml 500	Bottle	pH 4.62 - Chemical composition: Sodium acetate / Acetic acid
486871	ml 500	Bottle	pH 6.88 - Chemical composition: Potassium dihydrogen phosphate / Disodium hydrogen phosphate
486881	ml 500	Bottle	pH 9.22 - Chemical composition: Sodium tetraborate

For further information on above products, see following product/application section(s)  
Buffers (p. 30)

## Buffer solution ready-to-use - Colorless

Tamponi in soluzione pronta all'uso - incolore - Tampons incolores en solution prêt à l'emploi - Tampones en solución pronta al uso - incolora

## Buffer solution ready-to-use - Colorless - Analytical Grade

## RPE-For analysis



Description Clear colourless liquid pH at 20° C 3.98 ± 4.02

Code	Size	Packaging	Notes
486276	l 10	Kubidos	pH 4 - Chemical composition: Citric acid/Hydrochloric acid/Sodium hydroxide
486456	l 10	Kubidos	pH 7 - Chemical composition: Potassium dihydrogen phosphate/Disodium hydrogen phosphate
486616	l 10	Kubidos	pH 10 - Chemical composition: Boric acid/Sodium hydroxide/Potassium chloride

## RPE-ml 1000-buffer solution colourless



Description Clear colourless liquid pH at 20° C 3.98 ± 4.02

Code	Size	Packaging	Notes
486273	ml 1000	Plastic bottle	pH 4 - Chemical composition: Citric acid/Hydrochloric acid/Sodium hydroxide
486453	ml 1000	Plastic bottle	pH 7 - Chemical composition: Potassium dihydrogen phosphate/Disodium hydrogen phosphate
486593	ml 1000	Plastic bottle	pH 9 - Chemical composition: Boric Acid/Sodium hydroxide/Potassium Chloride
486613	ml 1000	Plastic bottle	pH 10 - Chemical composition: Boric acid/Sodium hydroxide/Potassium chloride

For further information on above products, see following product/application section(s)  
Buffers (p. 30)

## RPE-ml 500-buffer solution colourless



Description Clear colourless liquid pH at 20° C 3.98 ± 4.02

Code	Size	Packaging	Notes
486211	ml 500	Plastic bottle	pH 1 - Chemical composition: Glicine/Sodium chloride/Hydrochloric acid
486231	ml 500	Plastic bottle	pH 2 - Chemical composition: Citric acid/Hydrochloric acid/Sodium hydroxide
486251	ml 500	Plastic bottle	pH 3 - Chemical composition: Citric acid/Hydrochloric acid/Sodium hydroxide
486271	ml 500	Plastic bottle	pH 4 - Chemical composition: Citric acid/Hydrochloric acid/Sodium hydroxide
486311	ml 500	Plastic bottle	pH 5 - Chemical composition: Citric acid/Sodium hydroxide
486331	ml 500	Plastic bottle	pH 6 - Chemical composition: Citric acid/Sodium hydroxide
486451	ml 500	Plastic bottle	pH 7 - Chemical composition: Potassium dihydrogen phosphate/Disodium hydrogen phosphate
486541	ml 500	Plastic bottle	pH 8 - Chemical composition: Boric Acid/Sodium hydroxide/Hydrochloric acid
486591	ml 500	Plastic bottle	pH 9 - Chemical composition: Boric Acid/Sodium hydroxide/Potassium Chloride
486611	ml 500	Plastic bottle	pH 10 - Chemical composition: Boric acid/Sodium hydroxide/Potassium chloride
486671	ml 500	Plastic bottle	pH 11 - Chemical composition: Boric acid/Sodium hydroxide/Potassium chloride
486691	ml 500	Plastic bottle	pH 12 - Chemical composition: Sodium phosphate/Sodium hydroxide
486701	ml 500	Plastic bottle	pH 13 - Chemical composition: Potassium chloride/Sodium hydroxide

For further information on above products, see following product/application section(s)  
Buffers (p. 30)

## Buffer solution ready-to-use - Colored

Tamponi in soluzione pronta all'uso - colorata - Tampons colorés en solution prêt à l'emploi - Tampones en solución pronta al uso - colorada

## Buffer solution ready-to-use - Colored - Analytical Grade

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Y  
Z

## Buffer solution ready-to-use - Colored - Analytical Grade

## RPE-ml 500-buffer solution coloured



Description Red clear liquid pH at 20° C 3.98 ± 4.02

Code	Size	Packaging	Notes
486761	ml 500	Plastic bottle	pH 4 - red
486791	ml 500	Plastic bottle	pH 7 - yellow
486811	ml 500	Plastic bottle	pH 10 - blue

For further information on above products, see following product/application section(s)  
Buffers (p. 30)

## Buffer in concentrated solution - NORMEX vial - Colorless

## Buffer in concentrated solution - NORMEX vial - Colorless - Analytical Grade

## RPE-NORMEX-to dilute in 500 ml



Description Clear colourless liquid pH at 20° C 0.95 ± 1.05

Code	Size	Packaging	Notes
486221	Ampoule	Plastic vial	pH 1 - Chemical composition: Glicine/Sodium chloride/Hydrochloric acid
486241	Ampoule	Plastic vial	pH 2 - Chemical composition: Citric acid/Hydrochloric acid/Sodium hydroxide
486261	Ampoule	Plastic vial	pH 3 - Chemical composition: Citric acid/Hydrochloric acid/Sodium hydroxide
486281	Ampoule	Plastic vial	pH 4 - Chemical composition: Citric acid/Hydrochloric acid/Sodium hydroxide
486301	Ampoule	Plastic vial	pH 5 - Chemical composition: Citric acid/Sodium hydroxide
486321	Ampoule	Plastic vial	pH 6 - Chemical composition: Citric acid/Sodium hydroxide
486401	Ampoule	Plastic vial	pH 6.8 - Chemical composition: Potassium dihydrogen phosphate/Sodium hydroxide
486421	Ampoule	Plastic vial	pH 7 - Chemical composition: Potassium dihydrogen phosphate/Disodium hydrogen phosphate
486441	Ampoule	Plastic vial	pH 7.2 - Chemical composition: Potassium dihydrogen phosphate/Sodium hydroxide
486461	Ampoule	Plastic vial	pH 7.4 - Chemical composition: Potassium dihydrogen phosphate/Sodium hydroxide
486531	Ampoule	Plastic vial	pH 8 - Chemical composition: Boric Acid/Sodium hydroxide/Hydrochloric acid
486571	Ampoule	Plastic vial	pH 9 - Chemical composition: Boric Acid/Sodium hydroxide/Potassium Chloride
486601	Ampoule	Plastic vial	pH 10 - Chemical composition: Boric acid/Sodium hydroxide/Potassium chloride
486621	Ampoule	Plastic vial	pH 12 - Chemical composition: Sodium phosphate/Sodium hydroxide
486631	Ampoule	Plastic vial	pH 11 - Chemical composition: Boric acid/Sodium hydroxide/Potassium chloride
486641	Ampoule	Plastic vial	pH 13 - Chemical composition: Potassium chloride/Sodium hydroxide

For further information on above products, see following product/application section(s)  
Buffers (p. 30)

## Buffer in concentrated solution - NORMEX vial - Colored

## Buffer in concentrated solution - NORMEX vial - Colored - Analytical Grade

## RPE-NORMEX-to dilute in 500 ml



Description Red clear liquid pH at 20° C 3.95 ± 4.05

Code	Size	Packaging	Notes
486291	Ampoule	Plastic vial	pH 4 - red
486431	Ampoule	Plastic vial	pH 7 - yellow
486581	Ampoule	Plastic vial	pH 10.0 - blue

For further information on above products, see following product/application section(s)  
Buffers (p. 30)

## Buffer in sachets

Tamponi in bustina - Tampons en sachets - Tampones en bolsita

## Buffer in sachets - Analytical Grade

## RPE-24 bags pack



Description Clear colourless liquid pH at 20° C 3.98 ± 4.02

Code	Size	Packaging	Notes
486825	24 x ml 20	Carton box	pH 4
486835	24 x ml 20	Carton box	pH 7
486855	24 x ml 20	Carton box	pH 10.0

For further information on above products, see following product/application section(s)  
Buffers (p. 30)

## Buffer solution - Reference Material

Tamponi certificati in soluzione - Tampons certifiés en solution - Tampones en solución

## Buffer solution - Reference Material - Special Grade

## RS-Reference material pH 10



Description Clear colourless liquid pH at 20° C 9.95±10.05

Code	Size	Packaging	Notes
486981	ml 500	Bottle	pH 10.0

For further information on above products, see following product/application section(s)  
Buffers (p. 30)

A  
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Y  
Z

Buffer solution - Reference Material - Special Grade

RS-Reference material pH 7



Description Clear colourless liquid pH at 20° C 6.98±7.02

Code	Size	Packaging	Notes
486971	ml 500	Bottle	pH 7

For further information on above products, see following product/application section(s)  
Buffers (p. 30)

RS-Reference material pH 4



Description Clear colourless liquid pH at 20° C 3.98 ± 4.02

Code	Size	Packaging	Notes
486961	ml 500	Bottle	pH 4

For further information on above products, see following product/application section(s)  
Buffers (p. 30)

Butan-2-ol

Alcole sec-butilico - Butanol-2 - Butan-2-olo

CH<sub>3</sub>CHOHCH<sub>2</sub>CH<sub>3</sub>  
Atomic weight: 74,124  
CAS N: 78-92-2  
EEC N: 201-158-5

Transport classification  
ONU n. 1120  
Transport class: 3  
Packaging group: III



R: 10-36/37-67  
S: 7/9-13-24/25-26-46

Butan-2-ol - Analytical Grade

RPE-For analysis-Reag. Ph.Eur.



Assay (GLC) >=99 %	Description Clear liquid	Colour (APHA) <=10
Water solubility Conform	Density at 20° C 0.801 ± 0.811	Refractive index at 20° 1.3944 ± 1.3984
Boiling point 99 ± 100 °C	Water (K.F.) <=0.2 %	Residue on evaporation <=20 ppm
Acidity (butiric acid) <=20 ppm	Alcalinity (NaOH) <=10 ppm	Indole base <=0.1 ppm
Carbonyl Compounds (CO) <=500 ppm		

Code	Size	Packaging
414264	ml 1000	Glass bottle
414266	kg 15	Metal drum
414261	kg 160	Carton drum

Butan-2-ol - Technical Grade

PS-Pure-for synthesis



Assay (GC) >= 99 %	Refractive index at 20°C 1.395 - 1.399	Water content (K.F.) <= 2000 mg/Kg
Non volatile residue <= 50 mg/Kg	Colour <= 10 Hazen	Free acid (as CH <sub>3</sub> COOH) <= 20 mg/Kg

Code	Size	Packaging
P0180241	l 10	Plastic drum

1,3-Butanediol

1,3-Butandiolo - 1,3-Butanediol - 1,3-Butanodiol

CH<sub>2</sub>OHCH<sub>2</sub>CHOHCH<sub>3</sub>  
Atomic weight: 90,12  
CAS N: 107-88-0  
EEC N: 203-529-7

1,3-Butanediol - Technical Grade

RE-Pure



Assay (GLC) >=98 %	Description Yellow clear liquid	Density at 20° C 1.000 ± 1.010
Boiling point 206.0 ± 207.0 °C		

Code	Size	Packaging
431302	ml 1000	Glass bottle

2,3-Butanediol

2,3-Butandiolo - 2,3-Butanediol - 2,3-Butanodiol

CH<sub>3</sub>CHOHCHOHCH<sub>3</sub>  
Atomic weight: 90,12  
CAS N: 513-85-9  
EEC N: 208-173-6

2,3-Butanediol - Technical Grade

RE-Pure



Assay (GLC) >=98 %	Description Clear pinky liquid	Density at 20° C >=1.001
Refractive index at 20° 1.4310 ± 1.4370	Boiling point 179.5 ± 180.5 °C	

Code	Size	Packaging
431311	ml 250	Glass bottle

Isomers mixture

## 2-Butoxy ethanol

2-Butossietanolo - Glycol éthylénique monobutyléther - 2-Butoxiétanol

**CH<sub>3</sub>(CH<sub>2</sub>)<sub>3</sub>OCH<sub>2</sub>CH<sub>2</sub>OH**  
 Atomic weight: 118,18  
 CAS N: 111-76-2  
 EEC N: 203-905-0



R: 20/21/22-36/38  
 S: 36/37-46

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Y  
Z

## 2-Butoxy ethanol - Analytical Grade

## RPE-For analysis



Assay (GLC) >= 99 %	Description Clear colourless liquid	Density at 20° C 0.897 ± 0.905
Refractive index at 20° 1.4167 ± 1.4207	Boiling point 167 ± 172 ° C	Water (K.F.) <= 0.1 %
Residue on evaporation <=30 ppm		

Code	Size	Packaging
453941	ml 1000	Glass bottle

## 2-Butoxy ethanol - Technical Grade

## PS-Pure-for synthesis



Assay (GC) >= 99 %	Refractive index at 20°C 1.417 - 1.421	Water content (K.F.) <= 2000 mg/Kg
Colour <= 15 Hazen		

Code	Size	Packaging
P6310222	ml 5000	Plastic drum

## 2-(2-Butoxyethoxy)ethanol

2-(2-Butossietoss)ietanolo - Glycol diéthylénique monobutyléther - 2-(2-Butoxiétoxi) etanol

**CH<sub>3</sub>(CH<sub>2</sub>)<sub>3</sub>OCH<sub>2</sub>CH<sub>2</sub>OCH<sub>2</sub>CH<sub>2</sub>OH**  
 Atomic weight: 162,23  
 CAS N: 112-34-5  
 EEC N: 203-961-6



R: 36  
 S: 26

## 2-(2-Butoxyethoxy)ethanol - Analytical Grade

## RPE-For analysis



Assay (GLC) >=99 %	Description Clear colourless liquid	Water miscibility Conform
Density at 20° C 0.951 ± 0.959	Refractive index at 20° 1.4296 ± 1.4346	Boiling point 230.0 ± 232.0 °C
Water (K.F.) <=0.2 %	Acidity (acetic acid) <=300 ppm	Alcalinity (NH <sub>3</sub> ) <=0.85 ppm
Carbonyl Compounds (CO) <=500 ppm	Heavy metals (Pb) <=2 ppm	Peroxides (H <sub>2</sub> O <sub>2</sub> ) <=250 ppm
Residue on ignition <=20 ppm	Fe <=2 ppm	

Code	Size	Packaging
453881	ml 1000	Glass bottle
453883	kg 25	Metallic can

## 2-(2-Butoxyethoxy)ethanol - Technical Grade

## PS-Pure-for synthesis



Assay (GC) >= 97 %	Refractive index at 20°C 1.43 - 1.434	Water content (K.F.) <= 1500 mg/Kg
Colour <= 10 Hazen		

Code	Size	Packaging
P6250222	ml 5000	Plastic drum

## n-Butyl acetate

n-Butile acetato - n-Butyle acétate - n-Butyle acetate

**CH<sub>3</sub>COO(CH<sub>2</sub>)<sub>3</sub>CH<sub>3</sub>**  
 Atomic weight: 116,16  
 CAS N: 123-86-4  
 EEC N: 204-658-1

**Transport classification**  
 ONU n. 1123  
 Transport class: 3  
 Packaging group: II  
 Packaging group: III

R: 10-66-67  
 S: 25

## n-Butyl acetate - Analytical Grade

## RPE-For analysis



Assay (GLC) >=99 %	Description Clear colourless liquid	Identification (I.R.) Conform
Ready carbonizable substances Conform	Density at 20° C 0.878 ± 0.884	Refractive index at 20° 1.3926 ± 1.3976
Boiling point 126.0 ± 127.0 °C	Acidity or alkalinity <=0.001 meq/g	Water (K.F.) <=0.1 %
Butan-1-ol <=0.5 %	n-Butyl formate <=0.1 %	Butyl propanoate <=0.1 %
iso-Butyl acetate <=0.5 %	Residue on evaporation <=10 ppm	Total phosphorus <=0.2 ppm
Total silicon <=0.02 ppm	Total sulphur <=0.5 ppm	Ca <=0.2 ppm
Cu <=0.2 ppm	Fe <=0.1 ppm	K <=0.2 ppm
Mg <=0.02 ppm	Na <=0.2 ppm	Pb <=0.05 ppm
Zn <=0.1 ppm		

Code	Size	Packaging
431601	ml 1000	Glass bottle
431602	ml 2500	Glass bottle
431603	kg 24	Metal drum

For further information on above products, see following product/application section(s)  
 Microscopy (p. 58)

## n-Butyl acetate - Special Grade

## RS-Anhydrous-for analysis

sds

Assay (GC) >= 99.5 %	Refractive index at 20°C 1.392 - 1.396	Water content (K.F.) <= 100 mg/Kg
Non volatile residue <= 10 mg/Kg	Colour <= 10 Hazen	Free acid (as CH <sub>3</sub> COOH) <= 50 mg/Kg

Code	Size	Packaging
P0011016	ml 1000	Glass bottle

## n-Butyl acetate - Technical Grade

## PS-Pure-for synthesis

sds

Assay (GC) >= 99 %	Refractive index at 20°C 1.392 - 1.396	Colour <= 10 Hazen
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Code	Size	Packaging
P0010228	ml 5000	Metal tank
P0010268	l 200	Metal drum

## RE-Pure

CARLO ERBA  
Quality since 1829

Assay (GLC) >=99 %	Description Clear colourless liquid	Density at 20° C 0.876 ± 0.886
Refractive index at 20° 1.3911 ± 1.3991	Boiling point 123 ± 128 °C	Water (K.F.) <=0.1 %
Residue on evaporation <=100 ppm	Acidity (acetic acid) <=300 ppm	


Code	Size	Packaging
325602	ml 1000	Glass bottle
325601	ml 2500	Glass bottle
325603	kg 24	Metal drum

## n-Butyl alcohol

Alcole n-butilico - Butanol-1 - Butan-1-olo

CH<sub>3</sub>(CH<sub>2</sub>)<sub>3</sub>CH<sub>2</sub>OH  
Atomic weight: 74,124  
CAS N: 71-36-3  
EEC N: 200-751-6

Transport classification  
ONU n. 1120  
Transport class: 3  
Packaging group: II  
Packaging group: III

  
R: 10-22-37/38-41-67  
S: 7/9-13-26-37/39-46

## n-Butyl alcohol - Analytical Grade

## PA-PUREX-for analysis

sds

Assay (GC) >= 99.5 %	Refractive index at 20°C 1.397 - 1.401	Water content (K.F.) <= 1000 mg/Kg
Non volatile residue <= 10 mg/Kg	Colour <= 10 Hazen	Free acid (as CH <sub>3</sub> COOH) <= 20 mg/Kg

Code	Size	Packaging
P0170522	ml 5000	Plastic drum
P0170568	l 200	Metal drum

## RPE-ISO-for analysis

CARLO ERBA  
Quality since 1829

Assay (GLC) >= 99.5 %	Description Clear liquid	Colour (APHA) <=10
Identification (I.R.) Conform	Water solubility Conform	Density at 20° C 0.808 ± 0.810
Boiling point 116 ± 119 ° C	Water (K.F.) <= 0.1 %	Residue on evaporation <= 20 ppm
Acidity <= 0.0008 meq/g	Alcalinity (NaOH) <= 5 ppm	Carbonyl Compounds (CO) <= 100 ppm
Acetone <= 0.01 %	Isobutanolo <= 0.15 %	2-Butanolo <= 0.05 %
di-Butiletere <= 0.1 %	Aldeide butirrica <= 0.01 %	Ready carbonizable substances Conform
Al <= 0.5 ppm	Ba <= 0.1 ppm	Ca <= 0.5 ppm
Cd <= 0.05 ppm	Co <= 0.02 ppm	Cr <= 0.02 ppm
Cu <= 0.02 ppm	Fe <= 0.1 ppm	Mg <= 0.1 ppm
Mn <= 0.02 ppm	Ni <= 0.02 ppm	Pb <= 0.1 ppm
Zn <= 0.1 ppm		

Code	Size	Packaging
414131	ml 1000	Glass bottle
414132	kg 22	Metal drum

## n-Butyl alcohol - Special Grade

## RS-Anhydrous-for analysis

sds

Assay (GC) >= 99.5 %	Refractive index at 20°C 1.397 - 1.401	Water content (K.F.) <= 400 mg/Kg
Non volatile residue <= 10 mg/Kg	Colour <= 10 Hazen	Free acid (as CH <sub>3</sub> COOH) <= 20 mg/Kg

Code	Size	Packaging
P0171016	ml 1000	Glass bottle

For further information on above products, see following product/application section(s)  
Anhydrous solvents (p. 27)



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O  
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Q  
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W  
X  
Y  
Z

## n-Butyl alcohol - Special Grade

## RS-For HPLC-Isocratic Grade



Assay (GLC) >=99.8 %	Description Clear colourless liquid	Density at 20° C 0.809 ± 0.811
Refractive index at 20° 1.3972 ± 1.4012	Boiling point 117.0 ± 118.0 °C	Residue on evaporation <=5 ppm
Water (K.F.) <=0.1 % at 210 nm >=10 %	Acidity or alkalinity <=0.0005 meq/g at 235 nm >=80 %	U.V. Transmittance - at 310 nm >=98 %

Code	Size	Packaging
412511	ml 1000	Glass bottle
412512	ml 2500	Glass bottle

For further information on above products, see following product/application section(s)  
Chromatography (p. 34)

## n-Butyl alcohol - Technical Grade

## PS-Pure-for synthesis



Assay (GC) >= 99 %	Refractive index at 20°C 1.397 - 1.401	Water content (K.F.) <= 1000 mg/Kg
Non volatile residue <= 50 mg/Kg	Colour <= 10 Hazen	Free acid (as CH3COOH) <= 30 mg/Kg

Code	Size	Packaging
P0170222	ml 5000	Plastic drum
P0170241	l 10	Plastic drum
P0170249	l 25	Plastic drum
P0170268	l 200	Metal drum

## RE-Pure



Assay (GLC) >=99 %	Description Clear colourless liquid	Density at 20° C 0.808 ± 0.812
Boiling point 116.8 ± 118.3 °C	Water (K.F.) <=0.1 %	Residue on evaporation <=100 ppm
Acidity <= 0.0008 meq/g		

Code	Size	Packaging
308251	ml 1000	Glass bottle
528300	ml 5000	Metal tank
308257	kg 22	Metallic can
308259	kg 160	Metal drum

## tert-Butyl alcohol

Alcole ter-butilico - tert-Butanol - Alcohol ter-butílico

(CH<sub>3</sub>)<sub>3</sub>COH  
Atomic weight: 74,124  
CAS N: 75-65-0  
EEC N: 200-889-7

Transport classification  
ONU n. 1120  
Transport class: 3  
Packaging group: II



R: 11-20  
S: 9-16

## tert-Butyl alcohol - Analytical Grade

## RPE-For analysis



Assay (GLC) >=99.5 %	Description Clear liquid	Colour (APHA) <=10
Identification (I.R.) Conform	Water solubility Conform	Boiling point 81.7 ± 82.7 °C
Melting point 25 ± 26 °C	Water (K.F.) <=0.1 %	Residue on evaporation <=10 ppm
Acidity (acetic acid) <=100 ppm		

Code	Size	Packaging
414343	ml 500	Plastic bottle
414346	ml 2500	Plastic bottle

## tert-Butyl alcohol - Special Grade

## RS-Anhydrous-for analysis



Assay (GC) >= 99.7 %	Refractive index at 20°C 1.386 - 1.39	Colour <= 10 Hazen
Water content (K.F.) <= 200 mg/Kg	Non volatile residue <= 10 mg/Kg	2- Propanol <= 0.3 %

Code	Size	Packaging
P0191016	ml 1000	Glass bottle

For further information on above products, see following product/application section(s)  
Anhydrous solvents (p. 27)

## tert-Butyl alcohol - Technical Grade

## PS-Pure-for synthesis



Assay (GC) >= 99.5 %	Refractive index at 20°C 1.386 - 1.39	Colour <= 10 Hazen
Water content (K.F.) <= 800 mg/Kg	Non volatile residue <= 20 mg/Kg	

Code	Size	Packaging
P0190216	ml 1000	Glass bottle
P0190222	ml 5000	Plastic drum
P0190249	l 25	Plastic drum
P0190268	l 200	Metal drum

## n-Butyl bromide

*n-Butile bromuro - n-Butyle bromure - n-Butilo bromuro*

**CH<sub>3</sub>(CH<sub>2</sub>)<sub>3</sub>Br**  
 Atomic weight: 137,03  
 CAS N: 109-65-9  
 EEC N: 203-691-9

**Transport classification**  
 ONU n. 1126  
 Transport class: 3  
 Packaging group: II

   
 R: 11-20/21/22  
 S: 9-16-29

## n-Butyl bromide - Analytical Grade

## RPE-For analysis



Assay (GLC) >=98 %	Description Yellow clear liquid	Density at 20° C 1.274 + 1.278
Refractive index at 20° 1.4378 + 1.4418	Boiling point 100.8 + 101. °C	Water (K.F.) <=500 ppm
Residue on evaporation <=200 ppm	Acidity (bromidric ac.) <=50 ppm	

Code	Size	Packaging
431762	ml 250	Glass bottle

Stabilized with sodium carbonate.

## n-Butyl chloride

*n-Butile cloruro - n-Butyle chlorure - n-Butilo cloruro*

**CH<sub>3</sub>(CH<sub>2</sub>)<sub>3</sub>Cl**  
 Atomic weight: 92,569  
 CAS N: 109-69-3  
 EEC N: 203-696-6

**Transport classification**  
 ONU n. 1127  
 Transport class: 3  
 Packaging group: II

  
 R: 11  
 S: 3/9-16-29

## n-Butyl chloride - Analytical Grade

## PA-PUREX-for analysis



Assay (GC) >= 99.5 %	Refractive index at 20°C 1.4 - 1.404	Water content (K.F.) <= 150 mg/Kg
Non volatile residue <= 10 mg/Kg	Colour <= 10 Hazen	1-butanol <= 0.05 %

Code	Size	Packaging
P0220521	ml 2500	Glass bottle

## RPE-For analysis



Assay (GLC) >=99 %	Description Clear colourless liquid	Alcohol miscibility complete
Diethyl ether miscib. complete	Density at 20° C 0.883 + 0.889	Refractive index at 20° 1.3981 + 1.4061
Water (K.F.) <=500 ppm	Residue on evaporation <=10 ppm	Acidity (HCl) <=10 ppm

Code	Size	Packaging
431811	ml 100	Glass bottle
431817	ml 1000	Glass bottle

## n-Butyl chloride - Special Grade

## RS-For HPLC-Isocratic Grade



Assay (GC) >= 99.8 %	Refractive index at 20°C 1.4 - 1.404	Water content (K.F.) <= 100 mg/Kg
Colour <= 10 Hazen	UV transmittance at 227 nm >= 45 %	UV transmittance at 235 nm >= 80 %
UV transmittance at 250 nm >= 92 %	Non volatile residue <= 10 mg/Kg	see MP assay Conform
UV transmittance at 232 nm >= 75 %	Free acid (as HCl) <= 50 mg/Kg	

Code	Size	Packaging
P0223716	ml 1000	Glass bottle

For further information on above products, see following product/application section(s)  
 Chromatography (p. 34)

## n-Butyl chloride - Technical Grade

## PS-Pure-for synthesis



Assay (GC) >= 99.5 %	Refractive index at 20°C 1.4 - 1.404	Water content (K.F.) <= 500 mg/Kg
Non volatile residue <= 50 mg/Kg	Colour <= 10 Hazen	1-butanol <= 0.05 %

Code	Size	Packaging
P0220228	ml 5000	Metal tank

## tert-Butyl chloride

*ter-Butile cloruro - tert-Butyle chlorure - ter-Butil cloruro*

**(CH<sub>3</sub>)<sub>3</sub>CCl**  
 Atomic weight: 92,569  
 CAS N: 507-20-0  
 EEC N: 208-066-4

**Transport classification**  
 ONU n. 1127  
 Transport class: 3  
 Packaging group: II

  
 R: 11  
 S: 3/9-16-29

## tert-Butyl chloride - Analytical Grade

## RPE-For analysis



Assay (GLC) >=98.5 %	Description Clear colourless liquid	Refractive index at 20° 1.3838 + 1.3858
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Code	Size	Packaging
431851	ml 250	Glass bottle
431852	ml 1000	Glass bottle

## Di-n-butyl ether

Etere n-butilico - Ether n-butylique - Eter n-butilico

**CH<sub>3</sub>(CH<sub>2</sub>)<sub>2</sub>O(CH<sub>2</sub>)<sub>2</sub>CH<sub>3</sub>**  
 Atomic weight: 130,23  
 CAS N: 142-96-1  
 EEC N: 205-575-3

**Transport classification**  
 ONU n. 1149  
 Transport class: 3  
 Transport class: 3.C.13  
 Packaging group: III



R: 10-36/37/38-52/53  
 S: 61

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X  
Y  
Z

## Di-n-butyl ether - Analytical Grade

## RPE-For analysis



Assay (GLC) >=99.5 %	Description Clear colourless liquid	Alcohol miscibility complete
Chloroform miscibility complete	Diethyl ether miscib. complete	Density at 20° C 0.766 ± 0.772
Refractive index at 20° 1.3962 + 1.4022	Boiling point 141.5 + 142.5 ° C	Water (K.F.) <=500 ppm
Residue on evaporation <=50 ppm	Acidity (butiric acid) <=20 ppm	Alkalinity (NH4OH) <=4 ppm
Carbonyl Compounds (CO) <=0.1 %	Peroxides (H2O2) <=6 ppm	

Code	Size	Packaging	Notes
447461	kg 20	Metal drum	Not stabilized
447465	kg 155	Metal drum	Not stabilized

## RPE-For analysis-Stabilized



Assay (GLC) =>99,3 %	Description Clear liquid	Colour <=10 APHA
Refractive index at 20° 1,398+1,399	Acidity Conform	Water (K.F.) <=500 ppm
Dibutylperoxide <=50 ppm		

Code	Size	Packaging	Notes
447475	kg 155	Metal drum	Stabilized

## Tri-n-butyl phosphate

Tributilfosfato - Tributylphosphate - Tributilfosfato

**(C<sub>4</sub>H<sub>9</sub>O)<sub>3</sub>PO**  
 Atomic weight: 266,32  
 CAS N: 126-73-8  
 EEC N: 204-800-2



R: 22-38-40  
 S: 36/37-46

## Tri-n-butyl phosphate - Analytical Grade

## RPE-For analysis



Assay (GLC) >= 99.0 %	Description Clear liquid	Density at 20° C 0.975 + 0.980
Refractive index at 20° 1.4230 + 1.4250	Colour (APHA) <= 50	Acid value <= 0.05
Butan-1-ol <= 0.1 %	Water (K.F.) <= 0.2 %	

Code	Size	Packaging
432054	ml 500	Glass bottle

## Butylamine

n-Butilammina - n-Butylamine - n-Butilamina

**CH<sub>3</sub>(CH<sub>2</sub>)<sub>3</sub>NH<sub>2</sub>**  
 Atomic weight: 73,14  
 CAS N: 109-73-9  
 EEC N: 203-699-2

**Transport classification**  
 ONU n. 1125  
 Transport class: 3  
 Secondary risk: 8  
 Packaging group: II



R: 11-20/21/22-35  
 S: 3-16-26-29-36/37/39-45

## Butylamine - Analytical Grade

## RPE-For analysis



Assay (GLC) >= 99.5 %	Description Clear liquid	Colour <= 20 APHA
Refractive index at 20° 1.4000 + 1.4020	Water <= 0.1 %	

Code	Size	Packaging
431502	ml 100	Glass bottle
431505	ml 500	Glass bottle

## Butylated hydroxytoluene

Butile idrossitoluene - Butylhydroxytoluène - Butil hidroxitolueno

**[(CH<sub>3</sub>)<sub>2</sub>C(CH<sub>2</sub>)<sub>2</sub>C(CH<sub>3</sub>)<sub>2</sub>OH]**  
 Atomic weight: 220,36  
 CAS N: 128-37-0  
 EEC N: 204-881-4



R: 20/21/22-36/38  
 S: 24/25

## Butylated hydroxytoluene - Analytical Grade

## RPE-For analysis



Assay (GLC) 99 + 100 %	Description White semitransparent crystals	Melting point 69.0 + 71.0 ° C
Residue on ignition <=0.1 %		

Code	Size	Packaging
432121	g 25	Glass jar

## tert-Butyldimethylsilylimidazole

ter-Butildimetilsililimidazolo - tert-Butyldiméthylsilylimidazole - ter-Butildimetilsililimidazol

**C<sub>8</sub>H<sub>16</sub>NSi**  
Atomic weight: 182,340  
CAS N: 54925-64-3  
EEC N: 259-398-1

### tert-Butyldimethylsilylimidazole - Analytical Grade

#### RPE-For analysis



Description Clear colourless liquid Density at 20° C >=1.0 Boiling point 247 + 250 ° C

Code	Size	Packaging
431872	ml 1	Glass vial

Derivatizer for chromatography

For further information on above products, see following product/application section(s)  
Chromatography (p. 34)

## tert-Butyldiphenylchlorosilane

ter-Butildifenilclorosilano - tert-Butyldiphénylchlorosilane - ter-Butildifenilclorosilano

**C<sub>16</sub>H<sub>18</sub>ClSi**  
Atomic weight: 274,860  
CAS N: 58479-61-1  
EEC N: 261-282-0

### tert-Butyldiphenylchlorosilane - Analytical Grade

#### RPE-For analysis



Description Yellow clear liquid Density at 20° C <=1.075

Code	Size	Packaging
431862	ml 25	Glass vial

Derivatizer for chromatography

For further information on above products, see following product/application section(s)  
Chromatography (p. 34)

## tert-Butylmethylether

ter-Butilmetilètere - Butylméthyléther - ter-Butilmetilèter

**CH<sub>3</sub>OC<sub>4</sub>H<sub>9</sub>**  
Atomic weight: 88,15  
CAS N: 1634-04-4  
EEC N: 216-653-1

Transport classification  
ONU n. 2398  
Transport class: 3  
Packaging group: II



R: 11-38  
S: 9-16-24

### tert-Butylmethylether - Analytical Grade

#### PA-PUREX-for analysis



Assay (GC) >= 99.8 % Refractive index at 20°C 1.367 - 1.371 Water content (K.F.) <= 150 mg/Kg  
Non volatile residue <= 10 mg/Kg Colour <= 10 Hazen Methanol + tert-butanol <= 0.05 %  
Hydrocarbons up to C8 <= 0.05 %

Code	Size	Packaging
P0920521	ml 2500	Glass bottle
P0920528	ml 5000	Plastic drum

#### RPE-For analysis



Assay (GLC) >=99.5 % Description Clear colourless liquid Density at 20° C 0.730 + 0.750  
Boiling point 53 + 56 ° C Water (K.F.) <=100 ppm Peroxides (H<sub>2</sub>O<sub>2</sub>) <=10 ppm  
Methyl alcohol <=0.1 % Refractive index at 20°C 1.368 + 1.370

Code	Size	Packaging
432011	ml 500	Glass bottle
432015	kg 20	Fibreboard box

### tert-Butylmethylether - Special Grade

#### RS-Anhydrous-for analysis



Assay (GC) >= 99.8 % Refractive index at 20°C 1.367 - 1.371 Water content (K.F.) <= 100 mg/Kg  
Non volatile residue <= 10 mg/Kg Colour <= 10 Hazen Methanol + tert-butanol <= 0.05 %  
Hydrocarbons up to C8 <= 0.05 %

Code	Size	Packaging
P0921016	ml 1000	Glass bottle

For further information on above products, see following product/application section(s)  
Anhydrous solvents (p. 27)

## tert-Butylmethylether - Special Grade

## RS-For HPLC-Isocratic Grade

sds

Assay (GC) >= 99.8 %	Refractive index at 20°C 1.367 - 1.371	Water content (K.F.) <= 100 mg/Kg
Colour <= 10 Hazen	UV transmittance at 210 nm >= 10 %	UV transmittance at 230 nm >= 40 %
UV transmittance at 250 nm >= 75 %	UV transmittance at 280 nm >= 92 %	UV transmittance at 300 nm >= 98 %
Methanol + tert-butanol <= 0.05 %	Non volatile residue <= 10 mg/Kg	Hydrocarbons up to C8 <= 0.05 %

Code	Size	Packaging
P0923716	ml 1000	Glass bottle
P0923721	ml 2500	Glass bottle

For further information on above products, see following product/application section(s)  
Chromatography (p. 34)

## RS-For preparative HPLC

CARLO ERBA  
Quality since 1888

Assay (GLC) >=99.5 %	Description Clear colourless liquid	Density at 20° C 0.730 ± 0.750
Boiling point 54.8 + 55.8 ° C	Acidity or alkalinity <=0.0002 meq/g	Water (K.F.) <=200 ppm
Residue on evaporation <=2 ppm at 270 nm >=95 %	U.V. Transmittance -	at 240 nm >=60 %

Code	Size	Packaging
432022	ml 2500	Glass bottle

Filtered at 1 mm

For further information on above products, see following product/application section(s)  
Chromatography (p. 34)

## RS-PESTIPUR-for pesticide analysis

sds

Assay (GC) >= 99.8 %	Refractive index at 20°C 1.367 - 1.371	Water content (K.F.) <= 100 mg/Kg
Colour <= 10 Hazen	Non volatile residue <= 5 mg/Kg	GC-ECD.Individual peak (Lindane) <= 3 ng/l
Retention time trichlorobenzene to mirex -	GC-NPD.Individual peak (Ethylparathion) <= 3 ng/l	Retention time Atrazin to Coumaphos -

Code	Size	Packaging
P0922216	ml 1000	Glass bottle
P0922221	ml 2500	Glass bottle

## RS-PLUS-for residual pesticide analysis

CARLO ERBA  
Quality since 1888

Code	Size	Packaging
432061	ml 1000	Glass bottle
432062	ml 2500	Glass bottle

For further information on above products, see following product/application section(s)  
Special products for environmental analysis (p. 81)

## RS-SPECTROSOL-for optical spectroscopy

sds

Assay (GC) >= 99.8 %	Refractive index at 20°C 1.367 - 1.371	Water content (K.F.) <= 100 mg/Kg
Colour <= 10 Hazen	UV transmittance at 210 nm >= 10 %	UV transmittance at 230 nm >= 40 %
UV transmittance at 250 nm >= 75 %	UV transmittance at 280 nm >= 92 %	UV transmittance at 300 nm >= 98 %
Methanol + tert-butanol <= 0.05 %	Non volatile residue <= 10 mg/Kg	Hydrocarbons up to C8 <= 0.05 %

Code	Size	Packaging
P0922716	ml 1000	Glass bottle
P0922721	ml 2500	Glass bottle

For further information on above products, see following product/application section(s)  
Solvents for spectroscopy (p. 68)

## tert-Butylmethylether - Technical Grade

## PS-Pure-for synthesis

sds

Assay (GC) >= 99.7 %	Refractive index at 20°C 1.367 - 1.371	Water content (K.F.) <= 300 mg/Kg
Non volatile residue <= 50 mg/Kg	Colour <= 10 Hazen	Methanol + tert-butanol <= 0.1 %

Code	Size	Packaging
P0920216	ml 1000	Glass bottle
P0920228	ml 5000	Plastic drum
P0920248	l 25	Metal drum
P0920268	l 200	Metal drum

## RE-Pure

CARLO ERBA  
Quality since 1888

Code	Size	Packaging
528974	ml 1000	Glass bottle
528970	ml 5000	Metal tank
528971	l 25	Metal drum

## Di-n-butylphthalate

n-Dibutylftalato - n-Dibutyle phtalate - n-Dibutloftalato

C6H4(COOC4H9)2  
Atomic weight: 278.34  
CAS N: 84-74-2  
EEC N: 201-557-4

Transport classification  
ONU n. 3082  
Transport class: 9  
Packaging group: III



R: 61-50-62  
S: 53-45-61

## Di-n-butylphthalate - Analytical Grade

A  
B  
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I  
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L  
M  
N  
O  
P  
Q  
R  
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U  
V  
W  
X  
Y  
Z

## Di-n-butylphthalate - Analytical Grade

## RPE-For analysis



Assay (GLC) $\geq 99$ %	Description Clear colourless liquid	Density at 20° C 1.043 + 1.049
Refractive index at 20° 1.490 + 1.495	Water (K.F.) $\leq 0.2$ %	Acidity (Phthalic acid) $\leq 0.1$ %

Code	Size	Packaging
431942	ml 1000	Glass bottle
431949	kg 28	Metal drum
431947	kg 200	Metal drum

## Di-n-butylphthalate - Pharmaceutical Grade

## RPH-According to pharmacopoeia: Ph.Eur.



Assay (alkalimetric) 99.0 + 101.0 %	Description Clear colourless liquid	Acidity Conform Ph.Eur.
Related substances (GLC) $\leq 1.0$ %	Water (K.F.) $\leq 0.2$ %	Sulphated ash $\leq 0.1$ %
Density at 20° C 1.043 + 1.048	Refractive index at 20° C 1.490 + 1.495	Origin (BSE/TSE) Synthesis
Residual solvents (CPMP/ICH/283/95) Conform		

Code	Size	Packaging
325701	kg 26	Drum

## n-Butyric acid

Acido n-butirico - Acide n-butyrique - Acido n-butírico

**CH<sub>3</sub>CH<sub>2</sub>CH<sub>2</sub>COOH**  
 Atomic weight: 88,10  
 CAS N: 107-92-6  
 EEC N: 203-532-3

**Transport classification**  
 ONU n. 2820  
 Transport class: 8  
 Packaging group: III



R: 34  
 S: 26-36-45

## n-Butyric acid - Analytical Grade

## RPE-For analysis



Assay (GLC) $\geq 99$ %	Description Clear colourless liquid	Density at 20° C 0.959 + 0.971
Refractive index at 20° 1.3961 + 1.4021	Boiling point 163.0 + 164.0 °C	Chloride $\leq 50$ ppm
Heavy metals (Pb) $\leq 20$ ppm	Residue on ignition $\leq 100$ ppm	Sulphate $\leq 50$ ppm
Fe $\leq 10$ ppm		

Code	Size	Packaging
403236	ml 250	Glass bottle

## Cacodylic acid

Acido cacodilico - Acide cacodylique - Acido cacodilico

**C<sub>2</sub>H<sub>7</sub>AsO<sub>2</sub>**  
 Atomic weight: 137,99  
 CAS N: 75-60-5  
 EEC N: 200-883-4

**Transport classification**  
 ONU n. 1572  
 Transport class: 6.1  
 Packaging group: II



R: 23/25-50/53  
 S: 20/21-28-45-60-61

## Cacodylic acid - Analytical Grade

## RPE-For analysis



Assay $\geq 99$ %	Description White crystals
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Code	Size	Packaging
403311	g 25	Glass jar

## Cadmium rods

Cadmio bacchette - Cadmium en barres - Cadmio barritas

**Cd**  
 Atomic weight: 112,41  
 CAS N: 7440-43-9  
 EEC N: 231-152-8

**Transport classification**  
 ONU n. 3077  
 Transport class: 9  
 Packaging group: III



R: 45-26-48/23/25-50/53-62-63-68  
 S: 53-45-60-61

## Cadmium rods - Analytical Grade

## RPE-For analysis



Assay $\geq 99.5$ %	Description Metallic rods
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Code	Size	Packaging
432296	g 1000	Fibreboard box

## Cadmium

Cadmio - Cadmium - Cadmium

**Cd**

**Transport classification**  
 ONU n. 3264  
 Transport class: 8  
 Packaging group: II  
 Packaging group: III



R: 34  
 S: 60-61

## Cadmium - Special Grade

## Cadmium - Special Grade

## RS-NORMEX-concentrated solution for AAS



Description Clear colourless liquid Titration factor 0.995 + 1.005

Code	Size	Packaging	Notes
432311	Ampoule	Glass vial	conc. 1.000 ppm

Concentrated volumetric solution to prepare 1 l of solution 1 mg/ml

For further information on above products, see following product/application section(s)

Trace metal analysis (p. 86)

## RS-Quality control standard solution for AAS (graphite furnace)



Code	Size	Packaging	Notes
504360	ml 50	Glass bottle	Matrice: Nitric acid 2%, conc. 0.002 mg/l

For further information on above products, see following product/application section(s)

Trace metal analysis (p. 86)

## RS-Standard solution for AAS



Description Clear colourless liquid Titration factor 0.998 + 1.002

Code	Size	Packaging	Notes
497475	ml 100	Plastic bottle	conc. 1.000 ppm, Matrice: Nitric acid
497471	ml 500	Plastic bottle	conc. 1.000 ppm, Matrice: Nitric acid

Ready-to-use solution: concentration 1 mg/ml

For further information on above products, see following product/application section(s)

Trace metal analysis (p. 86)

## RS-Standard solution for ICP



Code	Size	Packaging	Notes
503491	ml 100	Plastic bottle	Matrice: Nitric acid, conc. 1.000 ppm
503495	ml 100	Plastic bottle	Matrice: Nitric acid, conc. 10.000 ppm
503493	ml 500	Plastic bottle	Matrice: Nitric acid, conc. 1.000 ppm
503497	ml 500	Plastic bottle	Matrice: Nitric acid, conc. 10.000 ppm

Provided with real batch certificate. Verified against NIST Standard Reference

For further information on above products, see following product/application section(s)

Trace metal analysis (p. 86)

## RS-Standard solution for ICP-MS



Code	Size	Packaging	Notes
505546	ml 50	Plastic bottle	Matrice: Nitric acid, conc. 10 ppm
505547	ml 100	Plastic bottle	Matrice: Nitric acid, conc. 10 ppm
505548	ml 100	Plastic bottle	Matrice: Nitric acid, conc. 100 ppm

For further information on above products, see following product/application section(s)

Trace metal analysis (p. 86)

## Cadmium acetate

Cadmio acetato - Cadmium acetate - Cadmio acetato

**Cd(CH<sub>3</sub>COO)<sub>2</sub>·5H<sub>2</sub>O**  
 Atomic weight: 266,52  
 CAS N: 5743-04-4  
 EEC N: 208-853-2

Transport classification  
 ONU n. 2570  
 Transport class: 6.1  
 Packaging group: III

R: 20/21/22-50/53  
 S: 60-61

## Cadmium acetate - Analytical Grade

## RPE-For analysis-Reag. USP



Assay (complexometric) > 97.5 %	Description White crystals	Chloride < 10 ppm
Water-insoluble matter < 0.005 %	Nitrate < 30 ppm	Substances not ppt. H <sub>2</sub> S < 0.1 %
Sulphate < 50 ppm	Cu < 10 ppm	Fe < 10 ppm
Pb < 50 ppm	Zn < 500 ppm	

Code	Size	Packaging
432344	g 100	Glass jar
432345	g 250	Plastic jar
432347	g 1000	Plastic jar

## Cadmium carbonate

Cadmio carbonato - Cadmium carbonate - Cadmio carbonato

**CdCO<sub>3</sub>**  
 Atomic weight: 172,41  
 CAS N: 513-78-0  
 EEC N: 208-168-9

Transport classification  
 ONU n. 2570  
 Transport class: 6.1  
 Packaging group: III

R: 20/21/22-50/53  
 S: 60-61

## Cadmium carbonate - Analytical Grade

## RPE-For analysis



Assay (complexometric) 97 + 100 %	Description White powder	HCl-insoluble matter <=100 ppm
Cu <=100 ppm	Pb >=100 ppm	



Code	Size	Packaging
432444	g 100	Glass jar
432446	g 500	Plastic jar

## Cadmium chloride monohydrate

Cadmio cloruro monoidrato - Cadmium chlorure monohydraté - Cadmio cloruro monohidrato

**CdCl<sub>2</sub>·H<sub>2</sub>O**  
 Atomic weight: 183,320  
 CAS N: 7790-78-5  
 EEC N: 233-296-7

**Transport classification**  
 ONU n. 2570  
 Transport class: 6.1  
 Packaging group: III

   
 R: 45-48/23/25-50/53  
 S: 53-45-60-61

## Cadmium chloride monohydrate - Technical Grade

## RE-Pure



<b>Assay &gt;=98 %</b>	Description White crystals	Substances not ppt. H <sub>2</sub> S <=0.2 %
Sulphate <=200 ppm	Cu <=20 ppm	Fe <=10 ppm
Pb <=50 ppm	Zn <=200 ppm	

Code	Size	Packaging
325741	g 100	Glass jar

## Cadmium iodide

Cadmio ioduro - Cadmium iodure - Cadmio yoduro

**CdI<sub>2</sub>**  
 Atomic weight: 366,21  
 CAS N: 7790-80-9  
 EEC N: 232-223-6

**Transport classification**  
 ONU n. 2570  
 Transport class: 6.1  
 Packaging group: III

   
 R: 23/25-33-68-50/53  
 S: 22-45-60-61

## Cadmium iodide - Analytical Grade

## RPE-For analysis



<b>Assay (complexometric) &gt;=99.5 %</b>	Description White flakes	pH sol. 5% at 25° C 4.0 + 7.0
Chloride + bromide (Cl) <=100 ppm	Water-insoluble matter <=30 ppm	Iodate <=5 ppm
Substances not ppt. H <sub>2</sub> S <=0.1 %	Sulphate <=50 ppm	Ca <=50 ppm
Cu <=20 ppm	Fe <=10 ppm	K <=50 ppm
Na <=50 ppm	Pb <=20 ppm	Zn <=50 ppm

Code	Size	Packaging
432592	g 25	Glass jar
432594	g 100	Glass jar

## Cadmium nitrate

Cadmio nitrato - Cadmium nitrate - Cadmio nitrato

**Cd(NO<sub>3</sub>)<sub>2</sub>·4H<sub>2</sub>O**  
 Atomic weight: 308,47  
 CAS N: 10022-68-1  
 EEC N: 233-710-6

**Transport classification**  
 ONU n. 1477  
 Transport class: 6.1  
 Packaging group: II

   
 R: 20/21/22-50/53  
 S: 60-61

## Cadmium nitrate - Analytical Grade

## RPE-For analysis



<b>Assay (complexometric) &gt;= 99 %</b>	Description White crystals	Water-insoluble matter <= 100 ppm
Chloride <= 50 ppm	Ammonium <= 300 ppm	Cu <= 30 ppm
Fe <= 10 ppm	Na <= 100 ppm	Pb <= 50 ppm
Zn <= 50 ppm		



Code	Size	Packaging
432644	g 100	Glass jar

## Cadmium sulphate

Cadmio solfato - Cadmium sulfate - Cadmio solfato

**3CdSO<sub>4</sub>·8H<sub>2</sub>O**  
 Atomic weight: 769,51  
 CAS N: 7790-84-3  
 EEC N: 233-331-6

**Transport classification**  
 ONU n. 2570  
 Transport class: 6.1  
 Packaging group: III

   
 R: 45-46-60-61-25-26-48/23/25-50/  
 S: 53-45-60-61

## Cadmium sulphate - Analytical Grade

## RPE-ACS-for analysis



<b>Assay (complexometric) 98.0 + 102.0 %</b>	Description White crystalline powder	Water-insoluble matter <= 50 ppm
Chloride <= 10 ppm	Nitrate-nitrite (NO <sub>3</sub> ) <= 30 ppm	Ca <= 50 ppm
Cu <= 20 ppm	Fe <= 10 ppm	K <= 100 ppm
Na <= 200 ppm	Pb <= 30 ppm	Zn <= 500 ppm

Code	Size	Packaging
432744	g 100	Glass jar
432747	g 1000	Plastic jar

## Cadmium sulphate - Technical Grade



## Cadmium sulphate - Technical Grade

## RE-Pure



Description White crystalline powder Chloride  $\leq 50$  ppm Substances not ppt. H<sub>2</sub>S  $\leq 0.3$  %  
 As  $\leq 1$  ppm Fe  $\leq 10$  ppm

Code	Size	Packaging
326006	g 500	Plastic jar

## Caffeine and sodium benzoate

Caffeina sodio benzoato - Caféine sodium benzoate - Cafeína sodio benzoato

CaH<sub>10</sub>O<sub>2</sub>N<sub>4</sub>

R: 22

## Caffeine and sodium benzoate - Technical Grade

## RE-Pure



Assay (Anhydrous Caffeine) 47.0 + 50.0 % s.s. Assay (Sodium benzoate) 50.0 + 53.0 % s.s. Description White powder  
 Appearance of solution Conform Reaction Conform Subst. reducing KMnO<sub>4</sub> Conform  
 Loss on drying  $\leq 2.0$  %

Code	Size	Packaging
326404	g 100	Plastic jar
326407	g 1000	Plastic jar

## Caffeine anhydrous

Caffeina anidra - Caféine anhydre - Cafeína anhidra

CaH<sub>10</sub>O<sub>2</sub>N<sub>4</sub>

Atomic weight: 194,09  
 CAS N: 58-08-2  
 EEC N: 200-362-1



R: 22

## Caffeine anhydrous - Pharmaceutical Grade

## RPH-According to pharmacopoeia: Ph.Eur.-USP-FU-Ph.Franc.-BP-DAB



Assay (non-aqueous medium) 98.5 + 101.0 % s.s. Assay (HPLC) 98.5 + 101.0 % s.s. Description White crystalline powder  
 Appearance of solution Conform Ph.Eur. Acidity Conform Ph.Eur. Related substances Conform Ph.Eur.  
 Organic volatile impurities Conform USP-NF Ready carbonizable substances Conform USP-NF Other alkaloids Conform USP-NF  
 Melting point 235 + 239 °C s.s. Loss on drying  $\leq 0.5$  % Sulphated ash  $\leq 0.1$  %  
 Heavy metals (Pb)  $\leq 10$  ppm Sulphate  $\leq 500$  ppm Impurity (HPLC)  $\leq 0.1$  %  
 Origin (BSE/TSE) Vegetable Residual solvents (CPMP/ICH/283/95) Conform

Code	Size	Packaging
326356	g 500	Bottle

## Calcium

Calcio - Calcium - Calcio

Ca

Transport classification  
 ONU n. 3264  
 Transport class: 8  
 Packaging group: II  
 Packaging group: III

R: 36/38  
S: 26

## Calcium - Special Grade

## RS-NORMEX-concentrated solution for AAS



Description Clear colourless liquid Titration factor 0.995 + 1.005

Code	Size	Packaging	Notes
432941	Ampoule	Glass vial	conc. 1.000 ppm

Concentrated volumetric solution to prepare 1 l of solution 1 mg/ml

For further information on above products, see following product/application section(s)

Trace metal analysis (p. 86)

## RS-Standard solution for AAS



Description Clear colourless liquid Titration factor 0.998 + 1.002

Code	Size	Packaging	Notes
497485	ml 100	Glass bottle	conc. 1.000 ppm
497481	ml 500	Plastic bottle	conc. 1.000 ppm

Ready-to-use solution: concentration 1 mg/ml

## RS-Standard solution for ICP



Code	Size	Packaging	Notes
503481	ml 100	Plastic bottle	Matrice: Nitric acid, conc. 1.000 ppm
503485	ml 100	Plastic bottle	Matrice: Nitric acid, conc. 10.000 ppm
503483	ml 500	Plastic bottle	Matrice: Nitric acid, conc. 1.000 ppm
503487	ml 500	Plastic bottle	Matrice: Nitric acid, conc. 10.000 ppm

Provided with real batch certificate. Verified against NIST Standard Reference

For further information on above products, see following product/application section(s)

Trace metal analysis (p. 86)

## Calcium - Special Grade

## RS-Standard solution for ICP-MS



Code	Size	Packaging	Notes
505541	ml 50	Plastic bottle	Matrice: Nitric acid, conc. 10 ppm
505542	ml 100	Plastic bottle	Matrice: Nitric acid, conc. 10 ppm
505545	ml 100	Plastic bottle	Matrice: Nitric acid, conc. 100 ppm

For further information on above products, see following product/application section(s)

Trace metal analysis (p. 86)

## RS-Standard solution for ion chromatography



Code	Size	Packaging	Notes
503220	ml 50	Plastic bottle	conc. 1.000 ppm
503221	ml 100	Plastic bottle	conc. 1.000 ppm
503222	ml 250	Plastic bottle	conc. 1.000 ppm
503223	ml 500	Plastic bottle	conc. 1.000 ppm

For further information on above products, see following product/application section(s)

Chromatography (p. 34)

## Calcium acetate

Calcio acetato - Calcium acétate - Calcio acetato

$\text{Ca}(\text{CH}_3\text{COO})_2 \cdot \text{H}_2\text{O}$   
Atomic weight: 176,19  
CAS N: 62-54-4  
EEC N: 200-540-9

## Calcium acetate - Analytical Grade

## RPE-For analysis



Assay (complexometric) $\geq 99$ %	Description White crystalline powder	pH sol. 5% at 25° C 7.5 + 8.5
Ammonium $\leq 100$ ppm	Chloride $\leq 20$ ppm	Water ins.ble/ppt NH <sub>4</sub> OH $\leq 100$ ppm
Heavy metals (Pb) $\leq 10$ ppm	Nitrate $\leq 20$ ppm	Sulphate $\leq 50$ ppm
Ba $\leq 30$ ppm	Cu $\leq 5$ ppm	Fe $\leq 10$ ppm
K $\leq 100$ ppm	Na $\leq 500$ ppm	Ni $\leq 5$ ppm
Pb $\leq 5$ ppm	Sr $\leq 0.1$ %	Zn $\leq 5$ ppm

Code	Size	Packaging
432985	g 250	Plastic jar
432987	g 1000	Plastic jar
432984	kg 50	Fibre drum

## Calcium acetate - Technical Grade

## RE-Pure



Assay $\geq 99$ %	Description White powder	pH sol. 1% 7 + 8
Chloride $\leq 500$ ppm	Water-insoluble matter $\leq 500$ ppm	Loss on drying $\leq 6$ %
Heavy metals (Pb) $\leq 5$ ppm	Sulphate $\leq 500$ ppm	As $\leq 2$ ppm
Fe $\leq 10$ ppm		

Code	Size	Packaging
326507	g 1000	Plastic jar
326503	kg 25	Sack

## RE-Puro for fibers-ERBATECH



Assay (complexometric) $\geq 90$ % anidro	Description White powder	pH sol. 5% at 25° C 7.5 + 8.5
Water ins.ble/ppt NH <sub>4</sub> OH $\leq 500$ ppm	Heavy metals (Pb) $\leq 10$ ppm	Nitrate $\leq 20$ ppm
As $\leq 2$ ppm	Cu $\leq 5$ ppm	Fe $\leq 10$ ppm
Ni $\leq 5$ ppm	Pb $\leq 5$ ppm	Zn $\leq 5$ ppm

Code	Size	Packaging
326531	kg 50	Fibre drum

## Calcium acetate hydrate

Calcio acetato acido - Calcium acétate acide - Calcio acetato hidratato

$\text{Ca}(\text{CH}_3\text{COO})_2 \cdot n\text{H}_2\text{O}$   
Atomic weight: 158,19 (ANHYDR.)  
CAS N: 62-54-4  
EEC N: 200-540-9

## Calcium acetate hydrate - Pharmaceutical Grade

## Calcium acetate hydrate - Pharmaceutical Grade

## RPH-According to pharmacopoeia: BP



Assay (complexometric) 98.0 + 100.5 % s.s.	Description White powder	Nitrate Conform BP
Ready oxidizable substances Conform BP	Water (K.F.) <=7 %	Alcalinity Conform
Chloride <=330 ppm	Heavy metals (Pb) <=20 ppm	Sulphate <=600 ppm
Al <=1 ppm	As <=2 ppm	Ba <=50 ppm
K <=0.1 %	Na <=0.5 %	Mg <=500 ppm

Code	Size	Packaging
326511	g 1000	Bottle
326512	g 5000	Plastic jar
326512	g 5000	Plastic bottle
326513	kg 25	Tank

## Calcium carbonate

Calcio carbonato - Calcium carbonate - Calcio carbonato

CaCO<sub>3</sub>

Atomic weight: 100,09  
CAS N: 471-34-1  
EEC N: 207-439-9

## Calcium carbonate - Analytical Grade

## RPE-ACS-ISO-for analysis-Reag. Ph.Eur.-Reag. USP



Assay (complexometric) 99.0 + 100.5 % s.s.	Description White powder	Diluted hydrochloric acid insoluble <= 100 ppm
Ammonium <= 30 ppm	Chloride <= 10 ppm	Fluoride <= 15 ppm
Sulphate <= 100 ppm	Heavy metals (Pb) <= 10 ppm	Ba <= 100 ppm
Fe <= 30 ppm	K <= 100 ppm	Mg <= 200 ppm
Na <= 0.1 %	Sr <= 0.1 %	Acetic acid insoluble <= 0.2 %
As <= 4 ppm	Magnesium and alkali metals <= 1.5 %	Loss on drying <= 2.0 %

Code	Size	Packaging
433185	g 250	Plastic jar
433187	g 1000	Plastic jar
433183	kg 25	Carton drum

## Calcium carbonate - Special Grade

## RS-ACS-for environmental analysis



Assay (complexometric) > 98.5 % s.s.	Description White powder	Chloride < 200 ppm
Sulphate < 2000 ppm	Heavy metals (Pb) < 20 ppm	Perdita essiccamento (200°C) < 0.5 %
As < 4 ppm	Fe < 200 ppm	Acid insoluble < 0.2 %

Code	Size	Packaging
433216	g 500	Plastic jar

Low content of alkalis

## RS-For chromatography



Description White powder

Code	Size	Packaging
433245	g 250	Plastic jar

## Calcium carbonate - Pharmaceutical Grade

## RPH-According to pharmacopoeia: Ph.Eur.-USP



Assay (complexometric) 98.5 + 100.5 % s.s.	Description White powder	Barium Conform Ph.Eur.
Organic volatile impurities Conform USP-NF	Loss on drying <= 2.0 %	Magnesium and alkali metals <= 1.0 %
Substances insoluble in acetic acid <= 0.2 %	Substances insoluble in hydrochloric acid <= 0.2 %	Chloride <= 330 ppm
Fluoride <= 50 ppm	Sulphate <= 0.25 %	Heavy metals (Pb) <= 20 ppm
As <= 3 ppm	Fe <= 200 ppm	Hg <= 0.5 ppm
Pb <= 3 ppm	Origin (BSE/TSE) Synthesis	Residual solvents (CPMP/ICH/283/95) Conform

Code	Size	Packaging
327105	kg 25	Tank

## Calcium carbonate - Technical Grade

## RE-Pure-Light powder



Assay (complexometric) &gt;= 98.0 % Description White powder

Code	Size	Packaging	Notes
327002	g 2500	Plastic jar	Light powder
327003	kg 25	Sack	Light powder
327004	kg 50	Sack	Light powder

## Calcium carbonate - Technical Grade

## RE-Pure-Heavy powder



<b>Assay (alkalimetric) 98.5 + 100.5 % s.s.</b>	Description White powder	Loss on drying <=2 %
Soluble alkalies(NaCO <sub>3</sub> ) <=0.26 %	Chloride <=350 ppm	Apparent density 400 + 600 g/l
Heavy metals (Pb) <=30 ppm	Sulphate <=0.8 %	As <=5 ppm
Fe <=200 ppm		

Code	Size	Packaging	Notes
327059	g 5000	Plastic jar	Heavy powder
327054	kg 50	Sack	Heavy powder

## Calcium chloride

Calcio cloruro - Calcium chlorure - Calcio cloruro hexahidrato

CaCl<sub>2</sub>·6H<sub>2</sub>OAtomic weight: 219,08  
CAS N: 7774-34-7  
EEC N: 233-140-8R: 36  
S: 22-24

## Calcium chloride - Analytical Grade

## RPE-For analysis



<b>Assay (complexometric) &gt;= 98.0 %</b>	Description White semitransparent crystals	Oxidizing substances (NO <sub>3</sub> ) <= 30 ppm
pH sol. 5% at 25° C 4.5 + 8.5	Ammonium <= 50 ppm	Phosphate <= 10 ppm
Water ins.ble/ppt NH <sub>4</sub> OH <= 100 ppm	Heavy metals (Pb) <= 5 ppm	Sulphate <= 100 ppm
As <= 1 ppm	Ba <= 50 ppm	Cu <= 5 ppm
Fe <= 25 ppm	Mg <= 50 ppm	Ni <= 5 ppm
Pb <= 5 ppm	Zn <= 10 ppm	Mn <= 5 ppm
Sr <= 100 ppm		

Code	Size	Packaging
433377	g 1000	Plastic jar
433371	g 5000	Plastic jar
433375	kg 25	Drum

## Calcium chloride - Pharmaceutical Grade

## RPH-According to pharmacopoeia: Ph.Eur.



<b>Assay (complexometric) 97.0 + 103.0 %</b>	Description White crystalline mass	Appearance of solution Conform Ph.Eur.
Acidity or alkalinity Conform Ph.Eur.	Sulphate <= 200 ppm	Al Conform Ph.Eur.
Ba Conform Ph.Eur.	Heavy metals (Pb) <= 15 ppm	Fe <= 7 ppm
Mg and alkaline metals <= 0.3 %	Origin (BSE/TSE) Synthesis	Residual solvents (CPMP/ICH/283/95) Conform

Code	Size	Packaging
327507	g 1000	Plastic jar
327509	g 5000	Plastic bottle
327504	kg 50	Fibre drum

## Calcium chloride anhydrous powder

Calcio cloruro anidro polvere - Calcium chlorure anhydre en poudre - Calcio cloruro anidro polvo

CaCl<sub>2</sub>Atomic weight: 110,97  
CAS N: 10043-52-4  
EEC N: 233-140-8R: 36  
S: 22-24

## Calcium chloride anhydrous powder - Analytical Grade

## RPE-For analysis



<b>Assay (complexometric) &gt;= 96.0 %</b>	Description White powder	Acidity < 50 ppm
Alcalinity < 0.3 %	Water-insoluble matter < 0.1 %	Sulphate < 500 ppm
Heavy metals (Pb) < 50 ppm	Ba < 100 ppm	Fe < 50 ppm
Mg < 0.1 %		

Code	Size	Packaging
433407	g 1000	Plastic jar
433405	kg 25	Fibre drum

**For further information on above products, see following product/application section(s)**  
Adsorbants (p. 22)

## Calcium chloride dihydrate

Calcio cloruro biidrato - Calcium chlorure dihydraté - Calcio cloruro biidrato

CaCl<sub>2</sub>·2H<sub>2</sub>OAtomic weight: 147,02  
CAS N: 10035-04-8  
EEC N: 233-140-8R: 36  
S: 22-24

## Calcium chloride dihydrate - Analytical Grade

## Calcium chloride dihydrate - Analytical Grade

## PA-PUREX-for analysis

sds

Code	Size	Packaging
P1130544	kg 25	-

## RPE-ACS-for analysis

CARLO ERBA  
Quality since 1888

Assay (complexometric) 99.0 + 105.0 %	Description White crystalline powder	pH sol. 5% at 25° C 4.5 + 8.5
Water-insoluble matter <= 100 ppm	Heavy metals (Pb) <= 5 ppm	Sulphate <= 100 ppm
Ba <= 50 ppm	Fe <= 10 ppm	K <= 100 ppm
Mg <= 50 ppm	Na <= 0.02 %	Sr <= 0.1 %
Ammonium <= 50 ppm	Oxidizing substances <= 30 ppm	

Code	Size	Packaging
433381	g 1000	Plastic jar
433382	g 5000	Plastic jar
433383	kg 50	Fibre drum

## Calcium chloride dihydrate - Pharmaceutical Grade

## RPH-According to pharmacopoeia: Ph.Eur.-USP-FU-Ph.Franc.-BP-DAB

CARLO ERBA  
Quality since 1888

Assay (complexometric) 99.0 + 103.0 %	Description White crystalline powder	Appearance of solution Conform Ph.Eur.
Acidity or alkalinity Conform Ph.Eur.	Ba Conform Ph.Eur.	Fe, Al and Phosphate Conform USP-NF
Organic volatile impurities Conform USP-NF	pH (1:20) 4.5 + 9.2	Heavy metals (Pb) <= 10 ppm
Sulphate <= 300 ppm	Mg and alkaline metals <= 0.5 %	Al <= 1 ppm
Fe <= 10 ppm	Origin (BSE/TSE) Synthesis	Residual solvents (CPMP/ICH/283/95) Conform

Code	Size	Packaging
327607	g 1000	Plastic jar
327609	g 5000	Plastic jar
327601	kg 25	Fibre drum
327603	kg 25	Carton drum

## Calcium chloride dried granular

Calcio cloruro secco granulare - Calcium chlorure sec granule - Calcio cloruro desecado granulado

CaCl<sub>2</sub>Atomic weight: 110.99  
CAS N: 10043-52-4  
EEC N: 233-140-8R: 36  
S: 22-24

## Calcium chloride dried granular - Special Grade

## RS-For microanalysis

CARLO ERBA  
Quality since 1888

Assay (complexometric) >=96 %	Description White granules	Diameter 1 - 3 mm
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Code	Size	Packaging
433535	g 250	Plastic jar

(Diameter ~mm 1+3).

For further information on above products, see following product/application section(s)  
Adsorbants (p. 22)

## Calcium chloride dried granular - Technical Grade

## RE-Pure

CARLO ERBA  
Quality since 1888

Assay (complexometric) >=92 %	Description White granules	Diameter 2 - 4 mm
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Code	Size	Packaging	Notes
328757	g 1000	Plastic jar	Diameter ~ 2+4 mm

For further information on above products, see following product/application section(s)  
Adsorbants (p. 22)

## RE-Pure

CARLO ERBA  
Quality since 1888

Assay (complexometric) >=90 %	Description White granules	Diameter 15 - 30 mm
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Code	Size	Packaging	Notes
328807	g 1000	Plastic jar	Diameter ~ 15+30 mm
328809	g 5000	Plastic jar	Diameter ~ 15+30 mm
328804	kg 50	Fibre drum	Diameter ~ 15+30 mm

For further information on above products, see following product/application section(s)  
Adsorbants (p. 22)

## Calcium chloride dried powder

Calcio cloruro secco polvere - Calcium chlorure sec en poudre - Calcio cloruro desecado en polvo

CaCl<sub>2</sub>Atomic weight: 111.0  
CAS N: 10043-52-4  
EEC N: 233-140-8R: 36  
S: 22-24

## Calcium chloride dried powder - Technical Grade

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
M  
N  
O  
P  
Q  
R  
S  
T  
U  
V  
W  
X  
Y  
Z

## Calcium chloride dried powder - Technical Grade

## RE-Pure



Assay (complexometric) 93.0 + 100.5 %	Description White powder	HCl-insoluble matter <= 200 ppm
Magnesio e sali alcalini <= 5.0 %	Fluoride <= 40 ppm	Heavy metals (Pb) <= 20 ppm
As <= 3 ppm	Pb <= 5 ppm	

Code	Size	Packaging
328257	g 1000	Plastic jar
328254	kg 50	Fibre drum

For further information on above products, see following product/application section(s)  
Adsorbants (p. 22)

## Calcium chloride fused

Calcio cloruro fuso - Calcium chlorure fondu - Calcio cloruro fundido

CaCl<sub>2</sub>

Atomic weight: 110,99  
CAS N: 10043-52-4  
EEC N: 233-140-8



R: 36  
S: 22-24

## Calcium chloride fused - Technical Grade

## RE-Pure



Assay (complexometric) >= 95 %	Description Pezzi irregolari bianchi
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Code	Size	Packaging
433481	g 250	Plastic jar
433487	g 1000	Plastic jar

For further information on above products, see following product/application section(s)  
Adsorbants (p. 22)

## Calcium chloride solution 0.025% in water

Calcio cloruro soluzione 0,025% in acqua - Calcium chlorure en solution à 0.025% dans l'eau - Calcio cloruro solución 0.025% en agua

CaCl<sub>2</sub>

CAS N: 7774-34-7  
EEC N: 233-140-8

## Calcium chloride solution 0.025% in water - Analytical Grade

## RPE-For analysis



Assay (complexometric) 0.022 + 0.028 %	Description Clear colourless liquid
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Code	Size	Packaging
433427	ml 1000	Bottle

## Calcium citrate tribasic

Calcio citrato tribasico - Calcium citrate tribasique - Calcio citrato tribasico

Ca<sub>3</sub>(C<sub>6</sub>H<sub>5</sub>O<sub>7</sub>)<sub>2</sub>·4H<sub>2</sub>O

Atomic weight: 570,51  
CAS N: 5785-44-4  
EEC N: 212-391-7

## Calcium citrate tribasic - Analytical Grade

## RPE-For analysis



Assay (complexometric) 98 + 102 %	Description White powder	As <= 3 ppm
Loss on drying at 150°C 10.0 + 13.3 %	Chloride <= 30 ppm	HCl-insoluble matter <= 0.05 %
Heavy metals (Pb) <= 20 ppm	Sulphate <= 100 ppm	Cu <= 10 ppm
Fe <= 10 ppm	Mg <= 100 ppm	Ni <= 10 ppm
Pb <= 10 ppm		

Code	Size	Packaging
433325	g 250	Plastic jar
433327	g 1000	Plastic jar

## Calcium dihydrogen phosphate

Calcio fosfato monobasico - Calcium phosphate monobasique - Calcio fosfato monobásico

Ca(H<sub>2</sub>PO<sub>4</sub>)<sub>2</sub>·H<sub>2</sub>O

Atomic weight: 252,07  
CAS N: 7758-23-8  
EEC N: 231-837-1

## Calcium dihydrogen phosphate - Analytical Grade

## Calcium dihydrogen phosphate - Analytical Grade



## RPE-For analysis

Assay (complexometric) >= 85 %	Description White crystalline powder	Chloride <= 50 ppm
Sulphate <= 0.1 %	Cu <= 50 ppm	Fe <= 50 ppm
K <= 100 ppm	Pb <= 50 ppm	Na <= 200 ppm
Cd <= 50 ppm	Co <= 50 ppm	Ni <= 50 ppm
Zn <= 50 ppm		

Code	Size	Packaging
433685	g 250	Plastic jar

## Calcium dihydrogen phosphate soluble

Calcio fosfato monobasico soluble - Calcium phosphate monobasique soluble - Calcio fosfato monobásico soluble

Ca(H<sub>2</sub>PO<sub>4</sub>)<sub>2</sub>·H<sub>2</sub>O

Atomic weight: 252,07

CAS N: 7758-23-8

EEC N: 231-837-1

## Calcium dihydrogen phosphate soluble - Technical Grade



## RE-Pure

Assay ex phosphorus (gravimetric) >= 97 %	Description White crystalline powder	Loss on drying <= 10 %
Chloride <= 0.3 %	Heavy metals (Pb) <= 20 ppm	Sulphate <= 0.35 %
As <= 2 ppm	Fe <= 0.06 %	

Code	Size	Packaging
330261	g 1000	Plastic jar
330262	kg 50	Sack

## Calcium fluoride

Calcio fluoruro - Calcium fluorure - Calcio fluoruro

CaF<sub>2</sub>

Atomic weight: 78,077

CAS N: 7789-75-5

EEC N: 232-188-7

## Calcium fluoride - Analytical Grade



## RPE-For analysis

Assay (complexometric) >= 98 %	Description White powder	Loss on ignition <= 0.5 %
Chloride <= 0.1 %	Sulphate <= 50 ppm	Co <= 5 ppm
Cr <= 5 ppm	Cu <= 1 ppm	Fe <= 10 ppm
Mn <= 1 ppm	Ni <= 5 ppm	

Code	Size	Packaging
433585	g 250	Plastic jar
433587	g 1000	Plastic jar

## Calcium formate

Calcio formiato - Calcium formiate - Calcio formiato

Ca(HCOO)<sub>2</sub>

Atomic weight: 130,12

CAS N: 544-17-2

EEC N: 208-863-7

## Calcium formate - Analytical Grade



## RPE-For analysis

Assay (non-aqueous medium) >= 97.5 %	Description White crystalline powder
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Code	Size	Packaging
433637	g 1000	Plastic jar
433633	kg 25	Fibre drum

## Calcium gluconate

Calcio gluconato - Calcium gluconate - Calcio gluconato

C<sub>12</sub>H<sub>22</sub>O<sub>14</sub>Ca

Atomic weight: 448,4

CAS N: 18016-24-5

EEC N: 206-075-8

## Calcium gluconate - Pharmaceutical Grade



## RPH-According to pharmacopoeia: Ph.Eur.-FU

Assay (complexometric) 98.5 + 102.0 %	Description White crystalline powder	Organic imp., boric ac. Conform Ph.Eur.
Chloride <= 0.02 %	Saccharose and red. sug. Conform Ph.Eur.	Mg and alkaline metals <= 0.4 %
Heavy metals (Pb) <= 10 ppm	Sulphate <= 100 ppm	Appearance of solution Conform Ph.Eur.
Origin (BSE/TSE) Synthesis	Alive aerobic bacteria <= 1000 u.f.c./g	Residual solvents (CPMP/ICH/283/95) Conform

Code	Size	Packaging
330609	g 5000	Bottle
330601	kg 25	Tank

## Calcium glutamate

Calcio glutammato - Calcium glutamate - Calcio glutamato

**(C<sub>6</sub>H<sub>9</sub>O<sub>4</sub>N)<sub>2</sub>Ca•5H<sub>2</sub>O**

Atomic weight: 332,32 (ANHYDR.)

CAS N: 7528-09-8

EEC N: 242-905-5

### Calcium glutamate - Technical Grade

#### RE-Pure



Assay (complexometric) 80 + 82 % Ca an

Description White powder

Loss on drying <= 18 %

Cystine <= 0.1 %

Chloride <= 170 ppm

Water-insoluble matter <= 100 ppm

Heavy metals (Pb) <= 10 ppm

Sulphate <= 250 ppm

Fe <= 10 ppm

Code	Size	Packaging
330807	g 1000	Plastic jar

## Calcium glycerophosphate

Calcio glicerofosfato - Calcium glycérophosphate - Calcio glicerofosfato

**C<sub>6</sub>H<sub>11</sub>O<sub>2</sub>PO<sub>4</sub>Ca•5H<sub>2</sub>O**

Atomic weight: 246,18

CAS N: 27214-00-2

EEC N: 248-328-5

### Calcium glycerophosphate - Pharmaceutical Grade

#### RPH-According to pharmacopoeia: Ph.Eur.-FU



Titolo in Ca (compl.) 18.6 + 19.4 % s.s.

Description White powder

Loss on drying <= 12.0 %

Chloride <= 500 ppm

Heavy metals (Pb) <= 20 ppm

Sulphate <= 0.1 %

As <= 3 ppm

Phosphate <= 400 ppm

Fe <= 50 ppm

Appearance of solution Conform Ph.Eur.

Acidity or alkalinity Conform Ph.Eur.

Citric acid Conform Ph.Eur.

Glycerol and alcohol-soluble substances Conform Ph.Eur.

Code	Size	Packaging
330457	g 1000	Bottle

## Calcium granules

Calcio granulare - Calcium en grenailles - Calcio gránulos

**Ca**

Atomic weight: 40,08

CAS N: 7440-70-2

EEC N: 231-179-5

Transport classification

ONU n. 1401

Transport class: 4.3

Secondary risk: 4.3

Packaging group: II



R: 15

S: 8-24/25-43

### Calcium granules - Analytical Grade

#### RPE-For analysis



Assay (complexometric) >= 98.5 %

Description Grey granules

Code	Size	Packaging
432935	g 500	Metallic can

For further information on above products, see following product/application section(s)

Adsorbants (p. 22)

## Calcium hydrogen phosphate

Calcio fosfato bibasico - Calcium phosphate dibasique - Calcio fosfato dibásico anhidro

**CaHPO<sub>4</sub>•2H<sub>2</sub>O**

Atomic weight: 172,09

CAS N: 7789-77-7

EEC N: 231-826-1

### Calcium hydrogen phosphate - Pharmaceutical Grade

#### RPH-According to pharmacopoeia: Ph.Eur.-USP-FU



Assay (complexometric) 98.0 + 105.0 %

Description White crystalline powder

Carbonate Conform Ph.Eur.

Ba Conform Ph.Eur.

Residue solvents Conform USP

Loss on ignition 24.5 + 26.5 %

Chloride <= 0.25 %

Fluoride <= 50 ppm

HCl-insoluble matter <= 0.2 %

Heavy metals (Pb) <= 30 ppm

Sulphate <= 0.5 %

As <= 3 ppm

Al <= 80 ppm

Fe <= 400 ppm

Cd <= 1.5 ppm

Hg <= 1 ppm

Pb <= 5 ppm

Origin (BSE/TSE) Synthesis

Residual solvents (CPMP/ICH/283/95) Conform

Code	Size	Packaging
330311	kg 25	Carton drum

Low content of Al



## Calcium hydrogen phosphate - Pharmaceutical Grade

RPH-According to pharmacopoeia: Ph.Eur.-USP-FU-Ph.Franc.



Assay (complexometric) 98.0 + 105.0 %

Description White crystalline powder

Carbonate Conform Ph.Eur.

Ba Conform Ph.Eur.

Loss on ignition 24.5 + 26.5 %

Chloride &lt;=0.25 %

Fluoride &lt;=50 ppm

HCl-insoluble matter &lt;=0.2 %

Heavy metals (Pb) &lt;=30 ppm

Sulphate &lt;=0.5 %

As &lt;=3 ppm

Fe &lt;=400 ppm

Origin (BSE/TSE) Synthesis

Residual solvents (CPMP/ICH/283/95) Conform

Code	Size	Packaging
330307	g 1000	Plastic jar
330303	kg 25	Carton drum
330304	kg 50	Sack

## Calcium hydroxide

Calcio idrossido - Calcium hydroxyde - Calcio hidróxido

Ca(OH)<sub>2</sub>

Atomic weight: 74,095

CAS N: 1305-62-0

EEC N: 215-137-3

Transport classification

ONU n. 3262

Transport class: 8

Packaging group: III

R: 34  
S: 26-36-45

## Calcium hydroxide - Analytical Grade

RPE-ACS-for analysis-Reag. Ph.Eur.-Reag. USP



Assay (alkalimetric) &gt;= 95.0 %

Description White powder

Carbonate &lt;= 3.0 %

Chloride &lt;= 300 ppm

Total sulphur &lt;= 0.1 %

HCl-insoluble matter &lt;= 300 ppm

Heavy metals (Pb) &lt;= 30 ppm

Fe &lt;= 500 ppm

K &lt;= 500 ppm

Na &lt;= 500 ppm

Sr &lt;= 500 ppm

Mg &lt;= 0.5 %

Code	Size	Packaging
433875	g 250	Plastic jar
433877	g 1000	Plastic jar
433873	kg 25	Carton drum

For further information on above products, see following product/application section(s)

Buffers (p. 30)

## Calcium hydroxide - Special Grade

RS-For chromatography



Description White powder

Code	Size	Packaging
433905	g 250	Plastic jar

For further information on above products, see following product/application section(s)

Chromatography (p. 34)

## Calcium hydroxide - Pharmaceutical Grade

RPH-According to pharmacopoeia: USP



Assay (complexometric) 95.0 + 100.5 %

Assay (alkalimetric) 95.0 + 100.5 %

Description White powder

Carbonate Conform USP-NF

Organic volatile impurities Conform USP-NF

HCl-insoluble matter &lt;= 0.5 %

Heavy metals (Pb) &lt;= 20 ppm

Mg and alkaline metals &lt;= 4.0 %

Carbonate &lt;= 5.0 %

Chloride &lt;= 330 ppm

Sulphate &lt;= 0.4 %

As &lt;= 4 ppm

Origin (BSE/TSE) Synthesis

Residual solvents (CPMP/ICH/283/95) Conform

Code	Size	Packaging
331007	g 1000	Bottle
331003	kg 25	Tank

## Calcium hydroxide - Technical Grade

RE-Pure



Assay (complexometric) &gt;= 95 %

Description White powder

As &lt;= 3 ppm

Heavy metals (Pb) &lt;= 20 ppm

Code	Size	Packaging
326454	g 1000	Plastic jar
326458	kg 25	Sack

## Calcium hypophosphite

Calcio ipofosfito - Calcium hypophosphite - Calcio hipofosfito

CaH<sub>2</sub>O<sub>2</sub>P<sub>2</sub>

Atomic weight: 170,15

CAS N: 7789-79-9

EEC N: 232-190-8

R: 11  
S: 7-15

## Calcium hypophosphite - Technical Grade

## Calcium hypophosphite - Technical Grade

## RE-Pure



Assay 98 + 100 % s.s.	Description White crystals or crystalline powder	Loss on drying <=1 %
Chloride <=25 ppm	Heavy metals (Pb) <=50 ppm	Sulphate <=50 ppm
Fe <=5 ppm		

Code	Size	Packaging
331307	g 1000	Plastic jar

## Calcium lactate

Calcio lattato - Calcium lactate - Calcio lactato



Atomic weight: 308,23  
CAS N: 5743-47-5  
EEC N: 212-406-7

## Transport classification

ONU n. 2811  
Transport class: 6.1  
Packaging group: III

## Calcium lactate - Pharmaceutical Grade

## RPH-According to pharmacopoeia: Ph.Eur.-FU-Ph.Franc.-BP-DAB



Assay (complexometric) 98.0 + 102.0 % s.s.	Description White crystalline powder	Appearance of solution Conform Ph.Eur.
Acidity or alkalinity Conform Ph.Eur.	Ba Conform Ph.Eur.	Loss on drying 22.0 + 27.0 %
Chloride <= 200 ppm	Heavy metals (Pb) <= 10 ppm	Mg and alkaline metals <= 1 %
Sulphate <= 400 ppm	Fe <= 50 ppm	Origin (BSE/TSE) Synthesis
Residual solvents (CPMP/ICH/283/95) Conform		

Code	Size	Packaging
331407	g 1000	Bottle
331406	g 10000	Tank
331404	kg 50	Drum

## Calcium nitrate

Calcio nitrato - Calcium nitrate - Calcio nitrato



Atomic weight: 236,15  
CAS N: 13477-34-4  
EEC N: 233-332-1

## Transport classification

ONU n. 1454  
Transport class: 5.1  
Packaging group: III



R: 8-36/38  
S: 17-26-36

## Calcium nitrate - Analytical Grade

## RPE-ACS-for analysis



Assay (complexometric) 99.0 + 103.0 %	Description White crystals	pH sol. 5% at 25° C 5.0 + 7.0
Water-insoluble matter <= 50 ppm	Chloride <= 50 ppm	Nitrite <= 10 ppm
Sulphate <= 20 ppm	Heavy metals (Pb) <= 5 ppm	Ba <= 50 ppm
Fe <= 5 ppm	Mg <= 0.05 %	K <= 50 ppm
Na <= 100 ppm	Sr <= 0.05 %	

Code	Size	Packaging
433957	g 1000	Plastic jar
433951	g 5000	Plastic jar
433952	kg 25	Fibre drum

## Calcium nitrate - Technical Grade

## RE-Pure



Assay (complexometric) 97 + 100 %	Description White crystals	pH sol. 5% at 25° C 4.0 + 7.0
Ammonium <=0.5 %	Chloride <=500 ppm	Water-insoluble matter <=100 ppm
Heavy metals (Pb) <=50 ppm	Sulphate <=0.1 %	Fe <=100 ppm

Code	Size	Packaging
331509	g 5000	Plastic jar
331501	kg 25	Sack

## Calcium oxide lumps

Calcio ossido pezzi - Calcium oxyde en morceaux - Calcio óxido en trozos



Atomic weight: 56,079  
CAS N: 1305-78-8  
EEC N: 215-138-9

## Transport classification

ONU n. 1910



R: 34  
S: 26-36/39-45

## Calcium oxide lumps - Technical Grade

## RE-Pure



Assay (alkalimetric) >=95 %	Description Whitish lumps	Loss on ignition <=5 %
Carbonate <=5.0 %	HCl-insoluble matter <=0.5 %	As <=10 ppm
Fe <=0.2 %		

Code	Size	Packaging
331557	g 1000	Plastic jar
331554	kg 50	Fibre drum

For further information on above products, see following product/application section(s)  
Adsorbants (p. 22)

## Calcium oxide powder

*Calcio ossido polvere - Calcium oxyde en poudre - Calcio óxido en polvo***CaO**Atomic weight: 56,079  
CAS N: 1305-78-8  
EEC N: 215-138-9

Transport classification

ONU n. 1910

Packaging group: III

R: 34  
S: 26-36/39-45

A

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## Calcium oxide powder - Technical Grade

## RE-Pure

Description White powder Calcium carbonate &lt;=10 % Loss on ignition &lt;=5 %

Code	Size	Packaging
331567	g 1000	Plastic jar
331564	kg 25	Sack

## Calcium pantothenate

*Calcio pantotenato - Calcium pantothénate - Calcio pantotenato***C<sub>10</sub>H<sub>16</sub>O<sub>10</sub>N<sub>2</sub>Ca**Atomic weight: 476,6  
CAS N: 137-08-6  
EEC N: 205-278-9

## Calcium pantothenate - Pharmaceutical Grade

## RPH-According to pharmacopoeia: Ph.Eur.-USP-FU-Ph.Franc.-DAB

Assay (protonometric) 98.0 + 101.0 % s.s.	Description White powder	Appearance of solution Conform Ph.Eur.
Organic volatile impurities Conform USP-NF	pH sol. 5% at 25° C 6.8 + 8.0	Specific optical rotation on dry +25.5 + +27.5 °
Loss on drying <= 3.0 %	3-Aminopropionic acid <= 0.5 %	Chloride <= 200 ppm
Heavy metals (Pb) <= 20 ppm	N 5.7 + 6.0 % s.s.	Ca 8.2 + 8.6 % s.s.
Origin (BSE/TSE) Synthesis	Residual solvents (CPMP/ICH/283/95) Conform	

Code	Size	Packaging
331602	g 100	Bottle

## tri-Calcium phosphate

*Calcio fosfato tribasico - Calcium phosphate tribasique - Calcio fosfato tribásico***Ca<sub>3</sub>(PO<sub>4</sub>)<sub>2</sub>**Atomic weight: 310,18  
CAS N: 7758-87-4  
EEC N: 231-840-8

## tri-Calcium phosphate - Analytical Grade

## RPE-For analysis

Assay (acidimetric) >= 90 %	Assay (P2O5) 40.5 + 42 %	Description White powder
pH sol 10% 6.5 + 7.5	Loss on ignition <= 4 %	Heavy metals (Pb) <= 10 ppm
As <= 1 ppm	Pb <= 1 ppm	Cu + Zn <= 50 ppm
Zn <= 25 ppm		

Code	Size	Packaging
433774	g 100	Glass jar
433776	g 500	Plastic jar
433773	kg 25	Fibre drum

## tri-Calcium phosphate - Pharmaceutical Grade

## RPH-According to pharmacopoeia: NF

Assay (complexometric) 34.0 + 40.0 % Ca	Description White powder	Ba Conform USP-NF
Carbonate Conform USP-NF	Nitrate Conform USP-NF	Dibasic salt and CaO Conform USP-NF
Loss on ignition <= 8 %	Water-soluble subst. <= 0.5 %	HCl-insoluble matter <= 0.2 %
Chloride <= 0.14 %	Fluoride <= 75 ppm	Heavy metals (Pb) <= 30 ppm
Sulphate <= 0.8 %	As <= 3 ppm	Origin (BSE/TSE) Synthesis
Residual solvents (CPMP/ICH/283/95) Conform		

Code	Size	Packaging
330407	g 1000	Plastic jar
330409	g 5000	Plastic jar
330403	kg 25	Sack

## Calcium propionate

*Calcio propionato - Calcium propionate - Calcio propionato***C<sub>8</sub>H<sub>10</sub>O<sub>2</sub>Ca**Atomic weight: 186,22  
CAS N: 4075-81-4  
EEC N: 223-795-8

## Calcium propionate - Technical Grade

## Calcium propionate - Technical Grade

## RE-Pure



Assay $\geq 97.5\%$ (s.s.)	Description White crystalline powder	Water (K.F.) $\leq 4\%$
pH sol. 1% 7 + 10	Chloride $\leq 500$ ppm	Sulphate $\leq 500$ ppm
Heavy metals (Pb) $\leq 5$ ppm	As $\leq 2$ ppm	Fe $\leq 10$ ppm

Code	Size	Packaging
363974	g 1000	Plastic jar
363979	kg 50	Sack

## Calcium stearate

Calcio stearato - Calcium stéarate - Calcio estearato

Ca<sub>26</sub>H<sub>50</sub>CaO<sub>4</sub>Atomic weight: 607.04  
CAS N: 1592-23-0  
EEC N: 216-472-8

## Calcium stearate - Pharmaceutical Grade

## RPH-Vegetal origin



Assay (complexometric) 9.0 + 10.5 % CaO	Description White powder	Loss on drying $\leq 4.0\%$
Heavy metals (Pb) $\leq 10$ ppm	Organic volatile impurities Conform USP-NF	Origin (BSE/TSE) Vegetable
Residual solvents (CPMP/ICH/283/95) Conform		

Code	Size	Packaging
332262	g 2500	Plastic bottle
332261	g 10000	Carton drum
332265	kg 25	Carton drum

## Calcium sulphate dihydrate

Calcio solfato biidrato - Calcium sulfate dihydraté - Calcio sulfato dihidrato

CaSO<sub>4</sub>·2H<sub>2</sub>OAtomic weight: 172.17  
CAS N: 10101-41-4  
EEC N: 231-900-3

## Transport classification

ONU n. 3077  
Transport class: 9  
Packaging group: III

## Calcium sulphate dihydrate - Analytical Grade

## RPE-ACS-for analysis



Assay (complexometric) 98 + 102 %	Description White powder	Carbonate Conform ACS
Chloride $\leq 50$ ppm	HCl-insoluble matter $\leq 0.02\%$	Heavy metals (Pb) $\leq 20$ ppm
Nitrate Conform ACS	Fe $\leq 10$ ppm	K $\leq 50$ ppm
Mg $\leq 0.02\%$	Na $\leq 0.02\%$	Sr $\leq 0.05\%$

Code	Size	Packaging
434156	g 500	Plastic jar
434151	kg 25	Fibre drum

White powder

## Calcium sulphate dihydrate - Pharmaceutical Grade

## RPH-According to pharmacopoeia: NF



Assay 98.0 + 101.0 %s.s.	Description White crystalline powder	Fe $\leq 100$ ppm
Heavy metals (Pb) $\leq 10$ ppm	Loss on drying 19.0 + 23.0 %	Origin (BSE/TSE) Synthesis
Residual solvents (CPMP/ICH/283/95) Conform		

Code	Size	Packaging
331752	g 5000	Bottle
331751	kg 25	Tank

## Calcium sulphate hemihydrate

Calcio solfato emidrato - Calcium sulfate hemihydraté - Calcio sulfato hemihidrato

CaSO<sub>4</sub>·1/2H<sub>2</sub>OAtomic weight: 145.15  
CAS N: 10034-76-1  
EEC N: 231-900-3

## Calcium sulphate hemihydrate - Technical Grade

## RE-Pure



Assay $\geq 97\%$	Description White powder
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Code	Size	Packaging
331761	g 1000	Plastic jar
331762	g 5000	Plastic jar
331767	kg 50	Fibre drum

For further information on above products, see following product/application section(s)  
Adsorbants (p. 22)

## Calcon

Calcone - Calcon - Calcón

**C<sub>20</sub>H<sub>13</sub>Na<sub>2</sub>O<sub>7</sub>SNa**  
 Atomic weight: 416,39  
 CAS N: 2538-85-4  
 EEC N: 219-810-2

## Calcon - Analytical Grade

## RPE-For analysis-C.I. 15705



Description Deep purple powder

Code	Size	Packaging
434171	g 25	Glass jar

Complexometry indicator. For the analysis of Al, Fe, Zr.

For further information on above products, see following product/application section(s)  
 Indicators (p. 50)

## Calconcarbonic acid

Acido calconcarbonico - Acide calconcarbonique - Acido calconcarbónico

**C<sub>21</sub>H<sub>14</sub>O<sub>7</sub>NaS**  
 Atomic weight: 438,43  
 CAS N: 3737-95-9  
 EEC N: 223-117-0

## Calconcarbonic acid - Analytical Grade

## RPE-For analysis



Description Black powder Residue on ignition &lt;=1 %

Code	Size	Packaging
403308	g 5	Glass jar

Complexometry indicator

For further information on above products, see following product/application section(s)  
 Indicators (p. 50)

## Calmagite

Calmagite - Calmagite - Calmagita

**C<sub>17</sub>H<sub>13</sub>Na<sub>2</sub>O<sub>8</sub>Na**  
 Atomic weight: 358,38  
 CAS N: 3147-14-6  
 EEC N: 221-563-0

## Calmagite - Analytical Grade

## RPE-For analysis



Description Brown powder

Code	Size	Packaging
434181	g 5	Glass jar

For the spectrophotometric analysis of lanthanides.

For further information on above products, see following product/application section(s)  
 Indicators (p. 50)

## D(+)-Camphor

D(+)-Canfora - D(+)-Camphre - D(+)-Alcanfor

**CH<sub>2</sub>CCOCH<sub>2</sub>CH[C(CH<sub>3</sub>)<sub>2</sub>]CH<sub>2</sub>CH<sub>2</sub>**  
 Atomic weight: 152,23  
 CAS N: 464-49-3  
 EEC N: 207-355-2

Transport classification  
 ONU n. 2717  
 Transport class: 4.1  
 Packaging group: III



R: 10-20/21/22  
 S: 7-13

## D(+)-Camphor - Special Grade

## RS-For microanalysis



Description xx.ni bianchi parz.amm

Code	Size	Packaging
434254	g 100	Plastic jar

## Camphor natural

Canfora naturale - Camphre naturel - Alcanfor natural

**CH<sub>2</sub>CCOCH<sub>2</sub>CH[C(CH<sub>3</sub>)<sub>2</sub>]CH<sub>2</sub>CH<sub>2</sub>**  
 Atomic weight: 152,23  
 CAS N: 464-49-3  
 EEC N: 207-355-2

Transport classification  
 ONU n. 2717  
 Transport class: 4.1  
 Packaging group: III



R: 10-20/21/22  
 S: 7-13

## Camphor natural - Pharmaceutical Grade

## Camphor natural - Pharmaceutical Grade

RPH-According to pharmacopoeia: Ph.Eur.-USP-BP-DAB



Description White crystals	Appearance of solution Conform Ph.Eur.	Water Conform Ph.Eur.
Acidity or alkalinity Conform Ph.Eur.	Sostanze analoghe (GLC) Conform Ph.Eur.	Melting point 175 + 179 °C
Specific optical rotation +41.0 + +43.0 °	Halogenated compounds <=100 ppm	Non volat.substances <=500 ppm

Code	Size	Packaging
332356	g 500	Bottle

## Camphor synthetic

Canfora sintetica - Camphre synthétique - Alcanfor sintético



Atomic weight: 152,23

CAS N: 21368-68-3

EEC N: 244-350-4

Transport classification

ONU n. 2717

Transport class: 4.1

Packaging group: III



R: 10-20/21/22

S: 7-13

## Camphor synthetic - Pharmaceutical Grade

RPH-According to pharmacopoeia: Ph.Eur.-FU-Ph.Franc.-BP-DAB



Description White crystalline powder	Appearance of solution Conform Ph.Eur.	Water Conform Ph.Eur.
Acidity or alkalinity Conform Ph.Eur.	Related substances Conform Ph.Eur.	Melting point 172 + 180 °C
Specific optical rotation -0.15 + +0.15 °	Halogenated compounds <=100 ppm	Non volat.substances <=500 ppm
Origin (BSE/TSE) Synthesis	Residual solvents (CPMP/ICH/283/95) Conform	

Code	Size	Packaging
332406	g 500	Plastic jar
332401	g 5000	Carton box
332402	kg 25	Metal drum

## L(+)-Camphoric acid

Acido L(+)-canforico - Acide L(+)-camphorique - Acido L(+)-camfórico



Atomic weight: 200,23

CAS N: 124-83-4

EEC N: 204-715-0

## L(+)-Camphoric acid - Analytical Grade

RPE-For analysis



Description White powder	Specific optical rotation 46.7 + 48.7 °	Melting point 188 + 190 °C
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Code	Size	Packaging
403351	g 100	Glass jar

## Canada balsam

Balsamo del Canada - Baume du Canada - Balsamo del Canada

CAS N: 8007-47-4

EEC N: 232-362-2

## Canada balsam - Special Grade

RS-Mounting medium for microscopy



Description Pale yellow dense liquid		
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Code	Size	Packaging
321553	g 100	Glass bottle
321554	g 250	Glass bottle

For further information on above products, see following product/application section(s)

Microscopy (p. 58)

## n-Capronic acid

Acido n-capronico - Acide n-capronique - Acido n-caprónico



Atomic weight: 116,16

CAS N: 142-62-1

EEC N: 205-550-7

Transport classification

ONU n. 2829

Transport class: 8

Packaging group: III



R: 34

S: 36/37/38-45

## n-Capronic acid - Analytical Grade

RPE-For analysis



Assay (GLC) >=99 %	Description Yellow colourless liquid	Refractive index at 20° 1.4150 + 1.4180
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Code	Size	Packaging
403473	ml 100	Glass bottle

## n-Caprylic acid

Acido n-caprilico - Acide n-caprylique - Acido n-caprilico

**CH<sub>2</sub>(CH<sub>2</sub>)<sub>6</sub>COOH**  
 Atomic weight: 144,21  
 CAS N: 124-07-2  
 EEC N: 204-677-5



R: 36/37/38  
 S: 24-26

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## n-Caprylic acid - Technical Grade

## RE-Pure



Assay (GLC) >= 98.5 % Description Yellow clear liquid Refractive index at 20° 1.4268 ± 1.4288  
 Acid value 385 ± 393 Iodine value <= 0.5

Code	Size	Packaging
403421	ml 250	Glass bottle

## Carbolated auramine solution

Auramina fenicata soluzione - Auramine phéniquée en solution - Auramina fenicada solución

Transport classification  
 ONU n. 1992  
 Transport class: 3  
 Secondary risk: 6.1  
 Packaging group: II



R: 11-23/24/25-39/23/24/25  
 S: 7-16-36/37-45

## Carbolated auramine solution - Special Grade

## RS-For microscopy



Description Yellow clear liquid

Code	Size	Packaging
424601	ml 1000	Glass bottle

Stain for Bacteriology. It contains phenol, methanol.

For further information on above products, see following product/application section(s)  
 Microscopy (p. 58)

## Carbolated Methylene Blue hydroalcoholic solution

Transport classification  
 ONU n. 1993  
 Transport class: 3  
 Packaging group: III



R: 10-21/22-36/38  
 S: 28-45

## Carbolated Methylene Blue hydroalcoholic solution - Special Grade

## RS-For microscopy



Description Blue clear liquid

Code	Size	Packaging
428991	ml 100	Glass bottle

Stain for Bacteriology Mixture water-ethanol (70:30). It contains phenol.

For further information on above products, see following product/application section(s)  
 Microscopy (p. 58)

## Carbolated Toluidine Blue hydroalcoholic solution



R: 21/22-36/38  
 S: 28-45

## Carbolated Toluidine Blue hydroalcoholic solution - Special Grade

## RS-For microscopy



Description Blue clear liquid

Code	Size	Packaging
429291	ml 100	Glass bottle

Stain for Histology Mixture ethanol-water (10:90). It contains phenol.

For further information on above products, see following product/application section(s)  
 Microscopy (p. 58)

## 1,1-Carbonyldiimidazole

N,N'-Carbonyldiimidazolo - N,N-Carbonyldiimidazole - N,N-Carbonyldiimidazol

**C<sub>7</sub>H<sub>8</sub>N<sub>4</sub>O**  
 Atomic weight: 162,150  
 CAS N: 530-62-1  
 EEC N: 208-488-9

## 1,1-Carbonyldiimidazole - Analytical Grade

## 1,1-Carbonyldiimidazole - Analytical Grade

## RPE-For analysis



Description White powder

Code	Size	Packaging
434442	10 x g 0,5	Glass bottle

Derivatizer for chromatography

For further information on above products, see following product/application section(s)  
Chromatography (p. 34)

## Carborundum granules

Carborundo granulare - Carborundum granulés - Carborundo en gránulos

## CSI

Atomic weight: 40,07  
CAS N: 409-21-2  
EEC N: 206-991-8

## Carborundum granules - Analytical Grade



## RPE-For analysis

Description Black granules  
Heavy metals (Pb) <=50 ppm  
Fe <=200 ppm

Loss on ignition <=0,5 %  
Sulphate <=200 ppm

Chloride <=100 ppm  
HCl solubility <=0,5 %

Code	Size	Packaging
434766	g 500	Plastic jar

## Carborundum powder

Carborundo polvere - Carborundum en poudre - Carborundo en polvo

## CSI

Atomic weight: 40,07  
CAS N: 409-21-2  
EEC N: 206-991-8

## Carborundum powder - Analytical Grade



## RPE-For analysis

Description Black greyish powder  
Fe <=0,5 %

Loss on ignition <=0,5 %

HCl solubility <=1 %

Code	Size	Packaging
434786	g 500	Plastic jar

## Carmine cochineal powder

Carminio cocciniglia polvere - Carmin de cochenille en poudre - Carmin de cochinilla en polvo

CAS N: 1390-65-4  
EEC N: 215-724-4

## Carmine cochineal powder - Analytical Grade



## RPE-For analysis-C.I. 75470

Description Polvere rossa violacea-nera

Code	Size	Packaging
434881	g 10	Glass jar

Stain for Microscopy (cytology-hystology) - For the analysis of B.

For further information on above products, see following product/application section(s)  
Microscopy (p. 58)

## Carminic acid

Acido carminico - Acide carminique - Acido carminico

C<sub>22</sub>H<sub>20</sub>O<sub>13</sub>

Atomic weight: 492,4  
CAS N: 1260-17-9  
EEC N: 215-023-3

## Carminic acid - Analytical Grade



## RPE-For analysis-C.I. 75470

Description Red brown crystals  
pH range 4.8 - 6.2

Sensitivity Conform  
Loss on drying <=5 %

Colour change Yellow violet

Code	Size	Packaging
403528	g 5	Glass jar

Stain for Microscopy (bacteriology-cytology). For the spectrophotometric analysis of B.

For further information on above products, see following product/application section(s)  
Indicators (p. 50)  
Microscopy (p. 58)



## Carrez reagent potassium salt

Carrez reattivo Sale di Potassio - Réactif de Carrez n°2 - Carrez reactivo sal de potasio

CAS N: 14459-95-1  
EEC N: 237-323-3

## Carrez reagent potassium salt - Special Grade

## RS-For agroalimentary analysis



Density at 20°C 1.056 ± 1.062

Code	Size	Packaging
502711	ml 1000	Glass bottle

Composition for 1 L:  $K_4Fe(CN)_6 \cdot 3H_2O$  106g in waterFor further information on above products, see following product/application section(s)  
Agriculture and food sector analyses (p. 25)

## Carrez reagent zinc salt

Carrez reattivo Sale di Zinco - Réactif de Carrez n°1 - Carrez reactivo sal de zinco

CAS N: 5970-45-6  
EEC N: 209-70-2

## Carrez reagent zinc salt - Special Grade

## RS-For agroalimentary analysis



Density at 20°C 1.108 ± 1.114

pH at 20°C 4.400 ± 4.600

Code	Size	Packaging
502701	ml 1000	Glass bottle

For further information on above products, see following product/application section(s)  
Agriculture and food sector analyses (p. 25)

## Casein

Caseina - Caséine - Caseine

CAS N: 9000-71-9  
EEC N: 232-555-1

## Casein - Special Grade

## RS-For microscopy



Assay (ex nitrogen) 92 ± 95 % s.s.

Description Yellowish powder

Water ≤ 13 %

Acidi liberi (ac. lattico) ≤ 1 %

Ash ≤ 3 % (s.s.)

Code	Size	Packaging
435963	g 50	Plastic jar

## Castor oil

Olio di ricino - Huile de ricin - Aceite de ricino

CAS N: 8001-79-4  
EEC N: 232-293-8

## Castor oil - Pharmaceutical Grade

## RPH-According to pharmacopoeia: Ph.Eur.-FU-Ph.Franc.-BP-DAB



Description Yellow colourless liquid

Water (K.F.) ≤ 0.3 %

Absorbance ≤ 1.0

Acid value ≤ 2.0

Oxidryl value ≥ 150

Iodine value 82 ± 90

Peroxide value ≤ 10.0

Composition of fatty acids Conform Ph.Eur.

Optical rotation +3.5 ± +6.0 °

Unsaponifiable matter ≤ 0.8 %

Origin (BSE/TSE) Vegetable

Residual solvents (CPMP/ICH/283/95) Conform

Code	Size	Packaging
356351	ml 1000	Glass bottle
356352	ml 5000	Metallic can
356353	kg 28	Metallic can

## Celestine blue B

Blu celeste - Bleu céleste - Azul celeste

 $C_{17}H_{16}BrN_5O_4$   
 Atomic weight: 408.20  
 CAS N: 1562-90-9  
 EEC N: 216-346-2

 Transport classification  
 ONU n. 3143  
 Transport class: 6.1  
 Packaging group: III
R: 20/21/22  
S: 22

## Celestine blue B - Special Grade

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Y  
Z

**Celestine blue B - Special Grade**

**RS-For microscopy-C.I. 51050**



Description Dark green powder

Code	Size	Packaging
428801	g 25	Plastic jar

Stain for Histology.

For further information on above products, see following product/application section(s)  
Microscopy (p. 58)

**Cellulose powder**

Cellulosa polvere - Cellulose en poudre - Celulosa en polvo

CAS N: 9004-34-6  
EEC N: 232-674-9

**Cellulose powder - Special Grade**

**RS-For chromatography**



Description Yellowish powder

Code	Size	Packaging
436061	g 250	Plastic jar

For further information on above products, see following product/application section(s)  
Chromatography (p. 34)

**Cerium**

Cerio - Cérium - Cerio

**Cerium - Special Grade**

**RS-Standard solution for ICP**



Code	Size	Packaging	Notes
503501	ml 100	Plastic bottle	Matrice: Nitric acid, conc. 1.000 ppm
503505	ml 100	Plastic bottle	Matrice: Nitric acid, conc. 10.000 ppm
503503	ml 500	Plastic bottle	Matrice: Nitric acid, conc. 1.000 ppm
503507	ml 500	Plastic bottle	Matrice: Nitric acid, conc. 10.000 ppm

Provided with real batch certificate. Verified against NIST Standard Reference

For further information on above products, see following product/application section(s)  
Trace metal analysis (p. 86)

**RS-Standard solution for ICP-MS**



Code	Size	Packaging	Notes
505551	ml 50	Plastic bottle	Matrice: Nitric acid, conc. 10 ppm
505552	ml 100	Plastic bottle	Matrice: Nitric acid, conc. 10 ppm
505555	ml 100	Plastic bottle	Matrice: Nitric acid, conc. 100 ppm

For further information on above products, see following product/application section(s)  
Trace metal analysis (p. 86)

**Cerium (III) carbonate**

Cerio carbonato oso - Cérium (-eux) carbonate - Cerio carbonato oso

$Ce_2(CO_3)_3 \cdot H_2O$   
Atomic weight: 478,37  
CAS N: 537-01-9  
EEC N: 208-655-6

**Cerium (III) carbonate - Technical Grade**

**RE-Pure**



Assay (oxidimetric) 98 + 100 % Description Pv xx.na bianca sfum.gia

Code	Size	Packaging
436102	g 25	Glass jar

**Cerium (III) nitrate**

Cerio nitrato oso - Cérium (-eux) nitrate - Cerio nitrato oso

$Ce(NO_3)_3 \cdot H_2O$   
Atomic weight: 434,25  
CAS N: 10294-41-4  
EEC N: 233-297-2

Transport classification  
ONU n. 1477  
Transport class: 5.1  
Packaging group: II



R: 8  
S: 17

**Cerium (III) nitrate - Technical Grade**

**RE-Pure**



Assay >= 99.4 % Description Colourless crystals Sulphate <= 200 ppm  
Fe2O3 <= 15 ppm Na2O <= 50 ppm CaO <= 50 ppm

Code	Size	Packaging
436203	g 50	Glass jar

## Cerium (IV) ammonium nitrate

*Cerio ammonio nitrato ico - Cérium (-ique) ammonium nitrate - Cerio y amonio nitrato ico*

**(NH<sub>4</sub>)<sub>2</sub>Ce(NO<sub>3</sub>)<sub>6</sub>**  
 Atomic weight: 548,23  
 CAS N: 16774-21-3  
 EEC N: 240-827-6

**Transport classification**  
 ONU n. 1477  
 Transport class: 5.1  
 Packaging group: II



R: 9-36/38  
 S: 17-26

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## Cerium (IV) ammonium nitrate - Analytical Grade

## RPE-ACS-for analysis-Reag. Ph.Eur.-Reag. USP



Assay (oxidimetric) >= 98.5 %	Description Orange crystalline powder	H2SO4-insoluble matter <= 500 ppm
Chloride <= 50 ppm	Phosphate <= 200 ppm	Ca <= 50 ppm
Cu <= 50 ppm	Fe <= 50 ppm	K <= 100 ppm
Na <= 100 ppm	Pb <= 50 ppm	

Code	Size	Packaging
436081	g 50	Glass jar

## Cerium (IV) ammonium sulphate

*Cerio ammonio solfato ico - Cérium (-ique) ammonium sulfate - Cerio y amonio sulfato ico*

**Ce(NH<sub>4</sub>)<sub>2</sub>(SO<sub>4</sub>)<sub>4</sub>.nH<sub>2</sub>O**  
 Atomic weight: 596,56 (ANHYDR.)  
 CAS N: 7637-03-8  
 EEC N: 231-567-4

## Cerium (IV) ammonium sulphate - Analytical Grade

## RPE-ACS-for analysis



Assay (oxidimetric) >= 94 %	Description Yellow-orange powder	Insoluble in diluted sulphuric acid <= 0.05 %
Phosphate <= 0.03 %	Fe <= 100 ppm	

Code	Size	Packaging
436091	g 100	Glass jar

## Cerium (IV) sulphate

*Cerio solfato ico - Cérium (-ique) sulfate - Cerio sulfato ico*

**Ce(SO<sub>4</sub>)<sub>2</sub>.nH<sub>2</sub>O**  
 Atomic weight: 332,26 (ANHYDR.)  
 CAS N: 10294-42-5  
 EEC N: 237-029-5

## Cerium (IV) sulphate - Technical Grade

## RE-Pure



Assay (oxidimetric) >=98 % s.s.	Description Yellow powder	Chloride <=200 ppm
Heavy metals (Pb) <=50 ppm	Fe <=500 ppm	

Code	Size	Packaging
436402	g 25	Glass jar

## Cerium (IV) sulphate 0.1 mol/l

*Cerio solfato ico 0,1 mol/l - Cérium (-ique) sulfate 0,1 mol/l - Cerio sulfato ico 0.1 mol/l*

**Ce(SO<sub>4</sub>)<sub>2</sub>.nH<sub>2</sub>O**  
 CAS N: 10294-42-5  
 EEC N: 237-029-5

**Transport classification**  
 ONU n. 3264  
 Transport class: 8  
 Packaging group: II



R: 36/38  
 S: 26

## Cerium (IV) sulphate 0.1 mol/l - Analytical Grade

## RPE-For analysis



Description Yellow clear liquid	Titration factor 0.998 + 1.002
---------------------------------	--------------------------------

Code	Size	Packaging
436426	ml 500	Glass bottle

33,2 g of Ce(SO<sub>4</sub>)<sub>2</sub>. Ready-to-use volumetric solution: 0,1 N.

**For further information on above products, see following product/application section(s)**  
 Volumetry (p. 92)

## Cesium

*Cesio - Césium - Cesio*

## Cesium - Special Grade

## Cesium - Special Grade

## RS-Standard solution for ICP



Code	Size	Packaging	Notes
503531	ml 100	Plastic bottle	Matrice: Nitric acid, conc. 1.000 ppm
503535	ml 100	Plastic bottle	Matrice: Nitric acid, conc. 10.000 ppm
503533	ml 500	Plastic bottle	Matrice: Nitric acid, conc. 1.000 ppm
503537	ml 500	Plastic bottle	Matrice: Nitric acid, conc. 10.000 ppm

Provided with real batch certificate. Verified against NIST Standard Reference

For further information on above products, see following product/application section(s)  
Trace metal analysis (p. 86)

## RS-Standard solution for ICP-MS



Code	Size	Packaging	Notes
505571	ml 50	Plastic bottle	Matrice: Nitric acid, conc. 10 ppm
505572	ml 100	Plastic bottle	Matrice: Nitric acid, conc. 10 ppm
505575	ml 100	Plastic bottle	Matrice: Nitric acid, conc. 100 ppm

For further information on above products, see following product/application section(s)  
Trace metal analysis (p. 86)

## Cesium carbonate

Cesio carbonato - Césium carbonate - Cesio carbonato

Cs<sub>2</sub>CO<sub>3</sub>

Atomic weight: 325,83  
CAS N: 534-17-8  
EEC N: 208-591-9

## Cesium carbonate - Analytical Grade

## RPE-For analysis



Assay (alkalimetric) 98 + 100 %	Description White powder	Chloride <=0.1 %
Heavy metals (Pb) <=500 ppm	Sulphate <=100 ppm	Cd <=50 ppm
Fe <=50 ppm	Zn <=50 ppm	

Code	Size	Packaging
436457	g 1	Glass bottle

## Cesium chloride

Cesio cloruro - Césium chloride - Cesio cloruro

## CsCl

Atomic weight: 168,36  
CAS N: 7647-17-8  
EEC N: 231-600-2

## Cesium chloride - Analytical Grade

## RPE-For analysis



Assay (argentimetric) >= 99 %	Description White crystalline powder	Sulphate <= 25 ppm
SiO <sub>2</sub> <= 2 ppm	Al <= 1 ppm	Ba <= 10 ppm
Ca <= 10 ppm	Cr <= 2 ppm	Fe <= 5 ppm
Li <= 1 ppm	K <= 30 ppm	Mg <= 5 ppm
Na <= 50 ppm	Mn <= 5 ppm	Pb <= 5 ppm
Rb <= 50 ppm	Sr <= 10 ppm	

Code	Size	Packaging
436502	g 25	Glass jar
436501	g 50	Glass jar

## Cesium chloride 5% solution

Cesio cloruro soluzione 5% - Césium chloride 5% - Cesio cloruro solución 5%

## CsCl

Atomic weight: 168,360  
CAS N: 7647-17-8  
EEC N: 231-600-2

## Cesium chloride 5% solution - Special Grade

## RS-Ionisation standard solution for AAS



Code	Size	Packaging	Notes
504536	ml 500	Plastic bottle	Matrice: Hydrochloric acid, conc. 5%

For further information on above products, see following product/application section(s)  
Trace metal analysis (p. 86)

## Cesium sulphate

Cesio solfato - Césium sulfate - Cesio solfato

Cs<sub>2</sub>SO<sub>4</sub>

Atomic weight: 361,87  
CAS N: 10294-54-9  
EEC N: 233-662-6



R: 20/21  
S: 24/25

## Cesium sulphate - Analytical Grade

## Cesium sulphate - Analytical Grade



## RPE-For analysis

Assay (acidimetric) >=99 %	Description White crystalline powder	Total nitrogen <=30 ppm
Chloride <=40 ppm	Water-insoluble matter <=50 ppm	Heavy metals (Pb) <=20 ppm
Al <=5 ppm	Ca <=100 ppm	Cu <=5 ppm
Fe <=3 ppm	K <=500 ppm	Mg <=5 ppm
Na <=200 ppm	Ni <=5 ppm	Pb <=5 ppm
Zn <=50 ppm		

Code	Size	Packaging
436534	g 25	Glass jar

## Cetyl alcohol

Alcoleo cetilico - Alcool cétylique - Alcohol cetílico

**CH<sub>2</sub>(CH<sub>2</sub>)<sub>14</sub>CH<sub>2</sub>OH**  
 Atomic weight: 242,44  
 CAS N: 36653-82-4  
 EEC N: 253-149-0

## Cetyl alcohol - Analytical Grade



## RPE-For analysis

Assay (GLC) >=95.0 %	Description Polvere cristallina bianca o incolore	Residue on ignition <=0.1 %
Melting point 47 + 50 °C		

Code	Size	Packaging
414427	g 1000	Plastic jar

## Cetyl alcohol - Pharmaceutical Grade



## RPH-According to pharmacopoeia: Ph.Eur.-NF-Ph.Franc.

Assay (GLC) >= 95 %	Description White powder and flakes	Appearance of solution Conform Ph.Eur.
Melting point 46 + 52 °C	Acid value <= 1,0	Iodine value <= 2,0
Oxidryl value 218 + 238	Saponification value <= 2,0	Origin (BSE/TSE) Animal
Residual solvents (CPMP/ICH/283/95) Conform		

Code	Size	Packaging
308357	g 1000	Glass bottle
308351	kg 50	Drum

## Charcoal activated granules

Carbone attivo granulare - Charbon actif en grain - Carbón activado en gránulos

**C**  
 CAS N: 7440-44-0  
 EEC N: 231-153-3

**Transport classification**  
 ONU n. 1362  
 Transport class: 4.2  
 Packaging group: III

## Charcoal activated granules - Analytical Grade

## PA-PUREX-for analysis



Code	Size	Packaging
P4610027	g 5000	Metal bucket

## Charcoal activated granules - Special Grade

## RS-For chromatography



Description Black powder	Loss on drying <= 10 %
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Code	Size	Packaging
434455	g 250	Bag
434454	g 1000	Bag

For further information on above products, see following product/application section(s)  
 Chromatography (p. 34)

## RS-For microanalysis



Description Black fine powder

Code	Size	Packaging
434462	g 50	Glass jar

## Charcoal activated granules - Technical Grade

## PS-Pure-for synthesis



Code	Size	Packaging
P4610017	g 1000	Plastic jar
P4610044	kg 25	-

## Charcoal decolorizing

Carbone decolorante - Charbon décolorant - Carbón decolorante

C  
CAS N: 1333-86-4  
EEC N: 215-609-9Transport classification  
ONU n. 1362  
Transport class: 4.2  
Packaging group: III

## Charcoal decolorizing - Analytical Grade

## RPE-For analysis

Description Black fine powder pH 9 + 10 Loss on drying <= 10 %  
Ash <= 7 %

Code	Size	Packaging
434507	g 1000	Bag
434501	kg 20	Sack

Charcoal activated

## Charcoal vegetable powder

Carbone vegetale polvere - Charbon végétal en poudre - Carbón vegetal en polvo

C  
CAS N: 7440-44-0  
EEC N: 231-153-3Transport classification  
ONU n. 1361  
Transport class: 4.2  
Packaging group: III

## Charcoal vegetable powder - Technical Grade

## RE-Pure



Description Black fine powder

Code	Size	Packaging
332658	g 2500	Bottle

## Chloral hydrate

Clorallio idrato - Chloral hydraté - Cloral hidrato

C  
CCl3CH(OH)2  
Atomic weight: 165,39  
CAS N: 302-17-0  
EEC N: 206-117-5R: 25-36/38  
S: 25-45

## Chloral hydrate - Pharmaceutical Grade

## RPH-According to pharmacopoeia: Ph.Eur.-USP-FU-Ph.Franc.-BP-DAB

Assay (acidimetric) 98.5 + 101.0 % Description Colourless transparent crystals Appearance of solution Conform Ph.Eur.  
Chloral alcoholate Conform Ph.Eur. pH sol 10% 3.5 + 5.5 Residue on evaporation <=0.1 %  
Chloride <=100 ppm Heavy metals (Pb) <=20 ppm Origin (BSE/TSE) Synthesis  
Residual solvents (CPMP/ICH/283/95) Conform

Code	Size	Packaging
334085	g 250	Bottle
334087	g 1000	Bottle

## Chloramine T sodium salt

Cloramina T sale sodico - Chloramine T sel sodique - Tosilcloramida sódica

C  
CH3C6H4SO2NCINa.5H2O  
Atomic weight: 281,70  
CAS N: 127-65-1  
EEC N: 204-854-7R: 22-31-34-42  
S: 7-22-26-36/37/39-45

## Chloramine T sodium salt - Analytical Grade

## RPE-For analysis

Assay (iodometric) >= 97.5 % Description White crystalline powder pH solution 5% 8.0 + 10.3  
Colore soluzione 5% <= 25 APHA Torbidità ( 0.5% in acqua) <= 5 FTU

Code	Size	Packaging
437554	g 100	Plastic jar
437557	g 1000	Plastic jar
437551	kg 25	Metal drum

For the analysis of: Co, Cr, Fe, Hg, Mn, Ni, Sb.

## Chloramphenicol

Cloramfenicolo - Chloramphénicol - Cloralfenicol

C  
O2NC6H4CHOHCH(NHCOCHCl2)CH2OH  
Atomic weight: 323,11  
CAS N: 56-75-7  
EEC N: 200-287-4R: 40-46-48  
S: 7-22-45

## Chloramphenicol - Pharmaceutical Grade

## Chloramphenicol - Pharmaceutical Grade

RPH-According to pharmacopoeia: Ph.Eur.-FU-Ph.Franc.-BP-DAB



Assay (spectrophotom.) 98.0 + 102.0 % s.s.	Description White crystalline powder or yellowish	Acidity or alkalinity Conform Ph.Eur.
Related substances Conform Ph.Eur.	Specific optical rotation +18.5 + 20.5 °	Loss on drying <= 0.5 %
Sulphated ash <= 0.1 %	Chloride <= 100 ppm	Melting point 149 + 153 °C
Origin (BSE/TSE) Synthesis	Residual solvents (CPMP/ICH/283/95) Conform	

Code	Size	Packaging
334372	g 1000	Bottle

## Chloranil

Cloranile - Chloranile - Cloranilo

COCCl:CClOCCl:CCl

Atomic weight: 245,88

CAS N: 118-75-2

EEC N: 204-274-4



R: 36/38-50/53

S: 37-60-61

## Chloranil - Analytical Grade

RPE-For analysis



Assay (GLC) >= 99.0 %	Description Pv giallo bruna - verdastra	Melting point 290 + 295 ° C
Residue on ignition <= 0.1 %		

Code	Size	Packaging
437601	g 50	Glass jar

For the dehydrogenation of hydroaromatic compounds

## Chloranilic acid

Acido cloranilico - Acide chloranilique - Acido cloranilico

C<sub>6</sub>H<sub>2</sub>Cl<sub>4</sub>O<sub>2</sub>

Atomic weight: 209

CAS N: 87-88-7

EEC N: 201-780-7

## Chloranilic acid - Analytical Grade

RPE-For analysis



Assay (argentimetric) >=99 %	Description Red brick powder	Loss on drying <=1 %
Chloride <=50 ppm	Heavy metals (Pb) <=20 ppm	Residue on ignition <=0.1 %

Code	Size	Packaging
403821	g 10	Glass jar

## Chlorate

Clorati - Chlorate - Clorato

## Chlorate - Special Grade

RS-Standard solution for ion chromatography



Code	Size	Packaging	Notes
503180	ml 50	Plastic bottle	conc. 1.000 ppm
503181	ml 100	Plastic bottle	conc. 1.000 ppm
503182	ml 250	Plastic bottle	conc. 1.000 ppm
503183	ml 500	Plastic bottle	conc. 1.000 ppm

For further information on above products, see following product/application section(s)

Chromatography (p. 34)

## Chloride

Cloruri - Chlorure - Cloruri

## Chloride - Special Grade

RS-Standard solution for ion chromatography



Code	Size	Packaging	Notes
503230	ml 50	Plastic bottle	conc. 1.000 ppm
503231	ml 100	Plastic bottle	conc. 1.000 ppm
503232	ml 250	Plastic bottle	conc. 1.000 ppm
503233	ml 500	Plastic bottle	conc. 1.000 ppm

For further information on above products, see following product/application section(s)

Chromatography (p. 34)

## Chlorite

Cloriti - Chlorite - Cloriti

## Chlorite - Special Grade

## Chlorite - Special Grade

## RS-Standard solution for ion chromatography



Code	Size	Packaging	Notes
503190	ml 50	Plastic bottle	conc. 1.000 ppm
503191	ml 100	Plastic bottle	conc. 1.000 ppm
503192	ml 250	Plastic bottle	conc. 1.000 ppm
503193	ml 500	Plastic bottle	conc. 1.000 ppm

For further information on above products, see following product/application section(s)  
Chromatography (p. 34)

## 1-Chloro-4-nitrobenzene

*p*-Cloronitrobenzene - *p*-Chloronitrobenzène - *p*-Cloronitrobenzeno

**C<sub>6</sub>H<sub>4</sub>ClNO<sub>2</sub>**

Atomic weight: 157.550  
CAS N: 100-00-5  
EEC N: 202-809-6

Transport classification

ONU n. 1578  
Transport class: 6.1  
Packaging group: II



R: 23/24/25-40-48/20/21/22-68-51/  
S: 28-36/37-45-61

## 1-Chloro-4-nitrobenzene - Analytical Grade



## RPE-For analysis

Assay (GLC) 99 + 100 %	Description xx.ni gialli lucenti	Melting point 81.6 + 84.4 ° C
Chloride <=10 ppm	Heavy metals (Pb) <=10 ppm	Residue on ignition <=100 ppm
Total sulphur <=10 ppm	Fe <=10 ppm	

Code	Size	Packaging
438905	g 250	Glass jar

## 3-Chloro-1,2-propanediol

*3*-Cloro-1,2-propanediolo - *3*-Chloro-1,2-propanediol - *3*-Cloro-1,2-propanodiol

**CH<sub>2</sub>ClCHOHCH<sub>2</sub>OH**

Atomic weight: 110.54  
CAS N: 96-24-2  
EEC N: 202-492-4

Transport classification

ONU n. 2689  
Transport class: 6.1  
Packaging group: III



R: 23/24/25  
S: 45

Synonyms  
3-Chloropropylèneglycol  
alpha-Chlorhydrine

## 3-Chloro-1,2-propanediol - Technical Grade

## RE-Pure



Assay (GLC) 98 + 100 %	Description Liq.limp incolore giallogn	Density at 20° C 1.317 + 1.327
Refractive index at 20° 1.4700 + 1.4800		

Code	Size	Packaging
334201	ml 100	Glass bottle

## 4-Chloro-m-cresole

*4*-Cloro-*m*-cresolo - *4*-Chloro-*m*-crésol - *4*-Cloro-*m*-cresol

**C<sub>7</sub>H<sub>7</sub>OCl<sub>2</sub>-(Cl)-3-(CH<sub>3</sub>)C<sub>6</sub>H<sub>4</sub>OH**

Atomic weight: 142.59  
CAS N: 59-50-7  
EEC N: 200-431-6

Transport classification

ONU n. 2669  
Transport class: 6.1  
Packaging group: II



R: 21/22-41-43-50  
S: 26-36/37/39-61

## 4-Chloro-m-cresole - Pharmaceutical Grade

## RPH-According to pharmacopoeia: BP



Assay (iodometric) 98.0 + 101.0 %	Description Cristalli bianchi o incolori	Appearance of solution Conform
Acidity Conform	Related substances (GLC) Conform	Non volat.substances <= 0.1 %

Code	Size	Packaging
334401	g 1000	Jar

## Chloro-2-buthane

*Cloro*-2-butano - *Chloro*-2 Butane - *Cloro*-2 Butano

Transport classification

ONU n. 1127  
Transport class: 3  
Packaging group: II



## Chloro-2-buthane - Technical Grade

## PS-Pure-for synthesis



Code	Size	Packaging
P8990268	l 200	Metal drum

sds



## Chloroacetamide

2-Chloroacetamide - Chloroacétamide - Cloroacetamida

**CH<sub>2</sub>ClCONH<sub>2</sub>**

Atomic weight: 93,513

CAS N: 79-07-2

EEC N: 201-174-2

**Transport classification**

ONU n. 2811

Transport class: 6.1

Packaging group: III

R: 25-43-62  
S: 22-36/37-45

A

B

C

## Chloroacetamide - Analytical Grade

## RPE-For analysis



Assay (GLC) &gt;= 97.5 %

Description White crystalline powder

Melting point 116 + 120 °C

Water &lt;= 0.2 %

Code	Size	Packaging
437704	g 100	Glass jar

D

E

## Chloroacetic acid

Acido cloroacetico - Acide chloroacétique - Acido cloroacetico

**CH<sub>2</sub>ClCOOH**

Atomic weight: 94,498

CAS N: 79-11-8

EEC N: 201-178-4

**Transport classification**

ONU n. 1751

Transport class: 6.1

Secondary risk: 8

Packaging group: II

R: 25-34-50  
S: 23-37-45-61

F

G

H

## Chloroacetic acid - Analytical Grade

## RPE-For analysis



Assay (acidimetric) &gt;=98.5 %

Description White flakes

Melting point 61 + 63 °C

Code	Size	Packaging
404308	g 500	Plastic jar

I

J

## Chloroacetone

Cloroacetone - Chloroacétone - Cloroacetona

**CH<sub>3</sub>COCH<sub>2</sub>Cl**

Atomic weight: 92,53

CAS N: 78-95-5

EEC N: 201-161-1

**Transport classification**

ONU n. 1695

Transport class: 6.1

Secondary risk: 38

Packaging group: I

R: 10-23/24/25-36/37/38  
S: 36/37/39-45

K

L

M

## Chloroacetone - Technical Grade

## RE-Pure



Assay (GLC) 93 + 100 %

Description Clear colourless liquid

Density at 20° C 1.147 + 1.153

Code	Size	Packaging
437901	ml 100	Glass ampoule

Stabilized with calcium carbonate

N

O

## Chloroacetonitrile

Cloroacetonitrile - Chloroacétonitrile - Cloroacetonitrilo

**CH<sub>2</sub>ClCN**

Atomic weight: 75,50

CAS N: 107-14-2

EEC N: 203-467-0

**Transport classification**

ONU n. 2668

Transport class: 6.1

Secondary risk: 3

Packaging group: II

R: 23/24/25-51/53  
S: 45-61

P

Q

R

## Chloroacetonitrile - Analytical Grade

## RPE-For analysis



Assay (GLC) 99 + 100 %

Description Clear colourless liquid

Density at 20° C 1.190 + 1.196

Boiling point 123.0 + 124.0 °C

Residue on evaporation &lt;=100 ppm

Code	Size	Packaging
437955	ml 100	Glass bottle

S

T

U

## m-Chloroaniline

3-Cloro anilina - m-Chloroaniline - 3-Cloro anilina

**NH<sub>2</sub>C<sub>6</sub>H<sub>4</sub>Cl**

Atomic weight: 127,57

CAS N: 108-42-9

EEC N: 203-581-0

**Transport classification**

ONU n. 2019

Transport class: 6.1

Packaging group: II

R: 23/24/25-33-50/53  
S: 28-36/37-45-60-61Synonyms  
m-Chlorobenzène amine

V

W

X

## m-Chloroaniline - Technical Grade

## RE-Pure



Assay (GLC) &gt;=99.0 %

Description Yellow clear liquid

Density at 20° C 1.212 + 1.220

Heavy metals (Pb) &lt;=10 ppm

Residue on ignition &lt;=200 ppm

Fe &lt;=10 ppm

Code	Size	Packaging
334241	ml 100	Glass bottle

Y

Z

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
M  
N  
O  
P  
Q  
R  
S  
T  
U  
V  
W  
X  
Y  
Z**o-Chlorobenzaldehyde**

o-Chlorobenzaldehyde - o-Chlorobenzaldéhyde - o-Chlorobenzaldehyd

**C<sub>7</sub>H<sub>5</sub>ClO**  
 Atomic weight: 140,57  
 CAS N: 89-98-5  
 EEC N: 201-956-3

**Transport classification**  
 ONU n. 1760  
 Transport class: 8  
 Packaging group: II



R: 34  
 S: 26-45

**o-Chlorobenzaldehyde - Analytical Grade****RPE-For analysis**

Code	Size	Packaging
438157	ml 1	Glass vial

**p-Chlorobenzaldehyde**

p-Chlorobenzaldehyde - p-Chlorobenzaldéhyde - p-Chlorobenzaldehyd

**C<sub>7</sub>H<sub>5</sub>ClO**  
 Atomic weight: 140,57  
 CAS N: 104-88-1  
 EEC N: 203-247-4

**Transport classification**  
 ONU n. 1759  
 Transport class: 8  
 Packaging group: III



R: 34  
 S: 26-45

**p-Chlorobenzaldehyde - Analytical Grade****RPE-For analysis**

**Assay (GLC) 99 ± 100 %** Description White crystalline mass Melting point 46.0 ± 48.0 ° C

Residue on ignition ≤ 100 ppm

Code	Size	Packaging
438203	g 50	Glass jar

**Chlorobenzene**

Chlorobenzene - Chlorobenzène - Chlorobenceno

**C<sub>6</sub>H<sub>5</sub>Cl**  
 Atomic weight: 112,56  
 CAS N: 108-90-7  
 EEC N: 203-628-5

**Transport classification**  
 ONU n. 1134  
 Transport class: 3  
 Packaging group: III



R: 10-20-51/53  
 S: 24/25-61

**Chlorobenzene - Analytical Grade****RPE-For analysis**

**Assay (GLC) ≥ 99 %** Description Clear colourless liquid Alcohol miscibility complete  
 Diethyl ether miscib. complete Density at 20° C 1.103 ± 1.109 Refractive index at 20° 1.5198 ± 1.5298  
 Boiling point 131 ± 133 °C Water (K.F.) ≤ 500 ppm Residue on evaporation ≤ 50 ppm  
 Acidity (HCl) ≤ 3 ppm Free chlorine ≤ 0.1 ppm

Code	Size	Packaging
438251	ml 1000	Glass bottle
438255	ml 2500	Glass bottle
438253	kg 25	Glass-polystyrene container

**Chlorobenzene - Special Grade****RS-Standard for refractometry**

Description Clear colourless liquid Density at 20° C ~ 1.107 Refractive index at 20° ~ 1.525

Code	Size	Packaging
438271	ml 100	Glass bottle

The right refractive index value is indicated on the label

**Chlorobenzene - Technical Grade****PS-Pure-for synthesis**

**Assay (GC) ≥ 99.5 %** Refractive index at 20°C 1.522 - 1.526 Water content (K.F.) ≤ 50 mg/Kg  
 Non volatile residue ≤ 50 mg/Kg Colour ≤ 20 Hazen Free acid (as HCl) ≤ 10 mg/Kg  
 Density d<sub>20/4</sub> 1.103 - 1.109 Benzene ≤ 50 mg/Kg

Code	Size	Packaging
P0210228	ml 5000	Plastic drum
P0210248	l 25	Metal drum
P0210268	l 200	Metal drum

**RE-Pure**

**Assay (GLC) ≥ 99 %** Description Yellow clear liquid Titrable base Conform  
 Density at 20° C 1.103 ± 1.109 Refractive index at 20° 1.5198 ± 1.5298 Boiling point 131.5 ± 132.5 °C  
 Water (K.F.) ≤ 500 ppm Residue on evaporation ≤ 50 ppm

Code	Size	Packaging
334251	ml 1000	Glass bottle
334255	ml 2500	Glass bottle
528431	ml 5000	Metal tank
334254	kg 30	Metal drum

## m-Chlorobenzoic acid

*Acido m-clorobenzoico - Acide m-chlorobenzoïque - Acido m-clorobenzoico***C<sub>7</sub>H<sub>5</sub>ClO<sub>2</sub>**

Atomic weight: 156,57

CAS N: 535-80-8

EEC N: 208-618-4

R: 38  
S: 28

A

B

C

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E

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G

H

I

J

K

L

M

N

O

P

Q

R

S

T

U

V

W

X

Y

Z

## m-Chlorobenzoic acid - Analytical Grade

## RPE-For analysis

Assay (acidimetric) 99 + 100 %  
Chloride <=100 ppmDescription White powder  
Residue on ignition <=100 ppmMelting point 154.0 + 156.0 ° C  
Sulphate <=50 ppm

Code	Size	Packaging
404591	g 10	Glass jar

## o-Chlorobenzoic acid

*Acido o-clorobenzoico - Acide o-chlorobenzoïque - Acido o-clorobenzoico***C<sub>7</sub>H<sub>5</sub>ClO<sub>2</sub>**

Atomic weight: 156,57

CAS N: 118-91-2

EEC N: 204-285-4

R: 38  
S: 28

## o-Chlorobenzoic acid - Analytical Grade

## RPE-For analysis

Assay (acidimetric) 99 + 100 %  
Chloride <=100 ppmDescription xx.ni bianco giallast  
Residue on ignition <=0.2 %Melting point 141.0 + 143.0 ° C  
Sulphate <=200 ppm

Code	Size	Packaging
404556	g 100	Glass jar

## p-Chlorobenzyl chloride

*p-Chlorobenzile cloruro - p-Chlorobenzyle chlorure - p-Chlorobencilo cloruro***C<sub>7</sub>H<sub>5</sub>Cl<sub>2</sub>**

Atomic weight: 161,03

CAS N: 104-83-6

EEC N: 203-242-7

Transport classification

ONU n. 2235

Transport class: 6.1

Packaging group: III

R: 36/37/38  
S: 39

## p-Chlorobenzyl chloride - Analytical Grade

## RPE-For analysis

Assay (GLC) 99 + 100 %  
Residue on ignition <=100 ppm

Description Massa xx.na b. semitras

Melting point 27.0 + 31.0 ° C

Code	Size	Packaging
438354	g 100	Glass bottle

## Chlorobutanol

*Clorobutanolo - Chlorobutanol - Clorobutanol***C<sub>4</sub>H<sub>9</sub>OCl**

Atomic weight: 186,5

CAS N: 6001-64-5

EEC N: 200-317-6

R: 20/21/22-36/38  
S: 24/25Synonymes  
Acétonechloroforme

## Chlorobutanol - Pharmaceutical Grade

## RPH-According to pharmacopoeia: Ph.Eur.-NF-FU-Ph.Franc.-BP



Assay (argentimetric) 98.0 + 100.5 % s.s.

Acidity Conform Ph.Eur.

Water (K.F.) 4.5 + 5.5 %

Origin (BSE/TSE) Synthesis

Description Colourless crystalline powder

Reaction Conform USP-NF

Sulphated ash &lt;=0.1 %

Residual solvents (CPMP/ICH/283/95) Conform

Appearance of solution Conform Ph.Eur.

Residue solvents Conform USP-NF

Chloride &lt;=100 ppm

Code	Size	Packaging
301357	g 1000	Plastic jar

## 2-Chloroethanol

*Cloridrina etilenica - 2-Chloroéthanol - Glicol cloridrina***CH<sub>2</sub>OHCH<sub>2</sub>Cl**

Atomic weight: 80,515

CAS N: 107-07-3

EEC N: 203-459-7

Transport classification

ONU n. 1135

Transport class: 6.1

Secondary risk: 3

Packaging group: I

R: 26/27/28  
S: 7/9-28-45

## 2-Chloroethanol - Analytical Grade

## 2-Chloroethanol - Analytical Grade

## RPE-For analysis



Assay (GLC) >=99.5 %	Description Clear colourless liquid	Water miscibility Conform
Alcohol miscibility complete	Density at 20° C 1.192 + 1.202	Refractive index at 20° 1.4394 + 1.4444
Boiling point 127.3 + 128.8 ° C	Water (K.F.) <=0.3 %	Residue on evaporation <=100 ppm
Acidity (HCl) <=0.1 %	Chloride <=0.1 %	Heavy metals (Pb) <=2 ppm
Peroxides (H2O2) <=5 ppm	Fe <=2 ppm	Zn <=1 ppm

Code	Size	Packaging
453852	ml 1000	Glass bottle
453854	kg 60	Plastic drum

## 2-Chloroethylamine hydrochloride

2-Chloroetilamina cloridrato - 2-Chloroethylamine chlorhydrate - 2-Chloroetilamónio cloridrado

**ClCH<sub>2</sub>CH<sub>2</sub>NH<sub>2</sub>·HCl**  
 Atomic weight: 115,99  
 CAS N: 870-24-6  
 EEC N: 212-793-2



R: 20/21/22  
 S: 7-22

## 2-Chloroethylamine hydrochloride - Technical Grade

## RE-Pure



Assay (argentimetric) >= 97 % Description Cristallini biancastri

Code	Size	Packaging
438371	g 100	Plastic jar

## Chloroform

Cloroformio - Chloroforme - Cloroformo

**CHCl<sub>3</sub>**  
 Atomic weight: 119,38  
 CAS N: 67-66-3  
 EEC N: 200-663-8

Transport classification  
 ONU n. 1888  
 Transport class: 6.1  
 Transport class: 6.1.114  
 Packaging group: III



R: 22-38-40-48/20/22  
 S: 36/37

## Chloroform - Analytical Grade

## PA-PUREX-for analysis-Stabilized with amylene



Assay (GC) >= 99.95 %	Refractive index at 20°C 1.444 - 1.448	Water content (K.F.) <= 100 mg/Kg
Non volatile residue <= 10 mg/Kg	Colour <= 10 Hazen	Free acid (as HCl) <= 10 mg/Kg
Stabilizer (Amylene) 5 - 25 mg/Kg	Carbon tetrachloride <= 80 mg/Kg	Dichloromethane <= 30 mg/Kg
1,2-dichloroethane <= 10 mg/Kg		

Code	Size	Packaging
P02405A16	ml 1000	Glass bottle
P02405A21	ml 2500	Glass bottle
P02405A28	ml 5000	Plastic drum
P02405A40	l 10	Metal tank

## PA-PUREX-for analysis-Stabilized with ethanol



Assay (GC) (without stabilizer) >= 99.95 %	Refractive index at 20°C 1.444 - 1.448	Water content (K.F.) <= 100 mg/Kg
Non volatile residue <= 10 mg/Kg	Colour <= 10 Hazen	Stabilizer (Ethanol) 0.6 - 1 % m/m
Free acid (as HCl) <= 5 mg/Kg	Carbon tetrachloride <= 80 mg/Kg	Dichloromethane <= 100 mg/Kg
1,2-dichloroethane <= 10 mg/Kg		

Code	Size	Packaging
P02405E47	ml 2500	Glass bottle PVC coated
P02405E28	ml 5000	Metal tank
P02405E40	l 10	Metal tank

## RPE-ACS-ISO-for analysis-Stabilized with ethanol



Assay (GLC) >=99.8 %	Description Clear liquid	Colour (APHA) <=10
Identification (I.R.) Conform	Phosgene Conform	Ready carbonizable substances Conform
Alcohol miscibility complete	Benzene miscibility complete	Diethyl ether miscib. complete
Acetone and aldehydes Conform ACS	Acidità e cloruri Conform ACS	Suit for Dithizone col. Conform ACS
Density at 20° C 1.479 + 1.483	Refractive index at 20° 1.4461 + 1.4491	Boiling point 61.0 + 61.5 ° C
Water (K.F.) <=100 ppm	Residue on evaporation <=5 ppm	Acidity (HCl) <=5 ppm
Ethyl alcohol <=0.75 %	Chloride <=0.4 ppm	Free chlorine <=0.1 ppm
Carbonyl Compounds (CO) <=5 ppm	Cu <=0.01 ppm	Fe <=0.1 ppm
Pb <=0.01 ppm	Zn <=0.05 ppm	

Code	Size	Packaging
438613	ml 1000	Glass bottle
438614	ml 2500	Glass bottle
438611	kg 35	Glass-polystyrene container

## Chloroform - Analytical Grade



## RPE-ISO-for analysis-Stabilized with ethanol

Assay (GLC) >=99 %	Description Clear liquid	Colour (APHA) <=10
Identification (I.R.) Conform	Free chlorine Conform	Phosgene Conform
Ready carbonizable substances Conform	Alcohol miscibility complete	Benzene miscibility complete
Diethyl ether miscib. complete	Density at 20° C 1.479 ± 1.483	Refractive index at 20° 1.4461 ± 1.4491
Boiling point 61.0 ± 61.5 ° C	Water (K.F.) <=300 ppm	Residue on evaporation <=5 ppm
Acidity (HCl) <=5 ppm	Ethyl alcohol <=0.75 %	Chloride <=0.4 ppm
Carbonyl Compounds (CO) <=5 ppm	Cu <=0.01 ppm	Fe <=0.1 ppm
Pb <=0.01 ppm	Zn <=0.05 ppm	

Code	Size	Packaging
438601	ml 1000	Glass bottle
438603	ml 2500	Glass bottle
438608	kg 20	Metal drum
438607	kg 35	Glass-polystyrene container
438606	kg 250	Metal drum

For further information on above products, see following product/application section(s)

Microscopy (p. 58)

## Chloroform - Special Grade



## RS-Anhydrous-for analysis-Stabilized with amylene

Assay (GC) >= 99.95 %	Refractive index at 20°C 1.444 - 1.448	Water content (K.F.) <= 50 mg/Kg
Non volatile residue <= 10 mg/Kg	Colour <= 10 Hazen	Free acid (as HCl) <= 10 mg/Kg
Stabilizer (Amylene) 5 - 25 mg/Kg	Carbon tetrachloride <= 80 mg/Kg	Dichloromethane <= 30 mg/Kg
1,2-dichloroethane <= 10 mg/Kg		

Code	Size	Packaging
P02410A16	ml 1000	Glass bottle
P02410A21	ml 2500	Glass bottle
P02410AT21	ml 2500	Glass bottle with molecular sieves

For further information on above products, see following product/application section(s)

Anhydrous solvents (p. 27)

## RS-Anhydrous-for analysis-Stabilized with ethanol



Assay (GC) (without stabilizer) >= 99.95 %	Refractive index at 20°C 1.444 - 1.448	Water content (K.F.) <= 50 mg/Kg
Non volatile residue <= 10 mg/Kg	Colour <= 10 Hazen	Stabilizer (Ethanol) 0.6 - 1 % m/m
Free acid (as HCl) <= 5 mg/Kg	Carbon tetrachloride <= 80 mg/Kg	Dichloromethane <= 100 mg/Kg
1,2-dichloroethane <= 10 mg/Kg		

Code	Size	Packaging
P02410E10	ml 200	Bottle with sept
P02410E16	ml 1000	Glass bottle
P02410E21	ml 2500	Glass bottle

For further information on above products, see following product/application section(s)

Anhydrous solvents (p. 27)

## RS-ATRASOL-For analysis of volatile traces-Stabilized with ethanol



Assay (GC) (without stabilizer) >= 99.95 %	Refractive index at 20°C 1.444 - 1.448	Water content (K.F.) <= 100 mg/Kg
Colour <= 10 Hazen	Stabilizer (Ethanol) 0.4 - 1 % m/m	Dichloromethane <= 100 mg/Kg
Non volatile residue <= 3 mg/Kg	GC ( FID ) - NC Atrasol Conform	Carbon tetrachloride <= 100 mg/Kg
Free acid (as HCl) <= 5 mg/Kg	GC-ECD.Individual peak (Lindane) <= 2 ng/l	Retention time trichlorobenzene to mirex -
GC-FID.Individ. peak (hexadecane) <= 5 µg/l	Retention time range over toluène -	

Code	Size	Packaging
P02432E16	ml 1000	Glass bottle

For further information on above products, see following product/application section(s)

Special products for environmental analysis (p. 81)

## RS-For colorimetry with dithizone-Stabilized with ethanol



Assay (GLC) >=99 %	Description Clear liquid	Colour (APHA) <=10
Identification (I.R.) Conform	Free chlorine Conform	Phosgene Conform
Suit.for Dithizone col. Conform	Ready carbonizable substances Conform	Alcohol miscibility complete
Benzene miscibility complete	Diethyl ether miscib. complete	Density at 20° C 1.479 ± 1.483
Refractive index at 20° 1.4461 ± 1.4491	Boiling point 61.0 ± 61.5 ° C	Water (K.F.) <=300 ppm
Residue on evaporation <=5 ppm	Acidity (HCl) <=5 ppm	Ethyl alcohol <=0.75 %
Chloride <=0.4 ppm	Carbonyl Compounds (CO) <=5 ppm	Cu <=0.01 ppm
Fe <=0.1 ppm	Pb <=0.01 ppm	Zn <=0.05 ppm

Code	Size	Packaging
438676	ml 500	Glass bottle

## Chloroform - Special Grade

## RS-For HPLC-Isocratic Grade-Stabilized with amylene

sds

Assay (GC) >= 99.9 %	Refractive index at 20°C 1.444 - 1.448	Water content (K.F.) <= 100 mg/Kg
Colour <= 10 Hazen	UV transmittance at 250 nm >= 50 %	UV transmittance at 260 nm >= 85 %
UV transmittance at 280 nm >= 95 %	Stabilizer (Amylene) 5 - 25 mg/Kg	Free acid (as HCl) <= 5 mg/Kg
see MP acidity Conform	Dichloromethane <= 100 mg/Kg	Carbon tetrachloride <= 100 mg/Kg
Non volatile residue <= 5 mg/Kg		

Code	Size	Packaging
P02437A16	ml 1000	Glass bottle
P02437A21	ml 2500	Glass bottle

For further information on above products, see following product/application section(s)  
Chromatography (p. 34)

## RS-For HPLC-Isocratic Grade-Stabilized with ethanol

sds

Assay (GC) (without stabilizer) >= 99.9 %	Refractive index at 20°C 1.444 - 1.448	Water content (K.F.) <= 100 mg/Kg
Colour <= 10 Hazen	Stabilizer (Ethanol) 0.4 - 1 % m/m	UV transmittance at 250 nm >= 50 %
UV transmittance at 260 nm >= 85 %	UV transmittance at 280 nm >= 95 %	Non volatile residue <= 5 mg/Kg
Free acid (as HCl) <= 5 mg/Kg	Carbon tetrachloride <= 100 mg/Kg	Dichloromethane <= 100 mg/Kg

Code	Size	Packaging
P02437E16	ml 1000	Glass bottle
P02437E21	ml 2500	Glass bottle

For further information on above products, see following product/application section(s)  
Chromatography (p. 34)

## RS-For HPLC-Isocratic Grade-Stabilized with ethanol

CARLO ERBA  
Quality since 1848

Assay (GLC) >=99 %	Description Clear colourless liquid	Density at 20° C 1.479 ± 1.483
Refractive index at 20° 1.444 + 1.448	Boiling point 61.0 + 61.5 ° C	Water (K.F.) <=300 ppm
Residue on evaporation <=5 ppm	Acidity <=0.0005 meq/g	Alcalinity <=0.0002 meq/g
U.V. Transmittance - at 275 nm >=98 %	at 250 nm >=30 %	at 260 nm >=90 %

Code	Size	Packaging
412652	ml 1000	Glass bottle
412653	ml 2500	Glass bottle

For further information on above products, see following product/application section(s)  
Chromatography (p. 34)

## RS-For optical spectroscopy-Stabilized with ethanol

CARLO ERBA  
Quality since 1848

Assay (GLC) >=99 %	Description Clear liquid	Colour (APHA) <=10
Density at 20° C 1.479 ± 1.483	Refractive index at 20° 1.4461 ± 1.4491	Boiling point 61.0 + 61.5 ° C
Water (K.F.) <=100 ppm	Residue on evaporation <=5 ppm	Acidity (HCl) <=0.0005 meq/g
Alcalinity <=0.0002 meq/g	Fluorescence -	at 254 nm <=2 ppb
at 365 nm <=2 ppb	U.V. Transmittance -	at 245 nm >=15 %
at 250 nm >=50 %	at 260 nm >=90 %	at 275 nm >=98 %

Code	Size	Packaging
438664	ml 1000	Glass bottle
438662	ml 2500	Glass bottle

For further information on above products, see following product/application section(s)  
Solvents for spectroscopy (p. 68)

## RS-For preparative HPLC-Stabilized with ethanol

CARLO ERBA  
Quality since 1848

Assay (GLC) >=99.0 %	Description Clear colourless liquid	Density at 20° C 1.479 ± 1.483
Refractive index at 20° 1.4456 ± 1.4496	Boiling point 61.0 + 61.5 ° C	Water (K.F.) <=500 ppm
Residue on evaporation <=5 ppm	Alcalinity <=0.0002 meq/g	U.V. Transmittance -
at 250 nm >=50 %	at 275 nm >=98 %	

Code	Size	Packaging
438641	ml 2500	Glass bottle

For further information on above products, see following product/application section(s)  
Chromatography (p. 34)

## RS-For residual pesticides analysis-Stabilized with ethanol

CARLO ERBA  
Quality since 1848

Assay (GLC) >= 99.8 %	Description Clear colourless liquid	Density at 20° C 1.478 ± 1.482
Water (K.F.) <= 0.05 %	Residue on evaporation <= 5 ppm	GC-ECD (Lindano) <= 5 ng/l
GC_NPD (Parathion) <= 10 ng/l		

Code	Size	Packaging
438631	ml 1000	Glass bottle

For further information on above products, see following product/application section(s)  
Special products for environmental analysis (p. 81)

## RS-PESTIPUR-for pesticide analysis-Stabilized with amylene

sds

Assay (GC) >= 99.9 %	Refractive index at 20°C 1.444 - 1.448	Water content (K.F.) <= 100 mg/Kg
Colour <= 10 Hazen	Stabilizer (Amylene) 5 - 25 mg/Kg	Free acid (as HCl) <= 5 mg/Kg
see MP acidity Conform	Non volatile residue <= 5 mg/Kg	GC-ECD.Individual peak (Lindane) <= 3 ng/l
Retention time trichlorobenzene to mirex -	GC-NPD.Individual peak (Ethylparathion) <= 3 ng/l	Retention time Atrazin to Coumaphos -

Code	Size	Packaging
P02422A21	ml 2500	Glass bottle

## Chloroform - Special Grade

## RS-PESTIPUR-for pesticide analysis-Stabilized with ethanol

sds

Assay (GC) (without stabilizer) >= 99.9 %	Refractive index at 20°C 1.444 - 1.448	Water content (K.F.) <= 100 mg/Kg
Colour <= 10 Hazen	Stabilizer (Ethanol) 0.4 - 1 % m/m	Free acid (as HCl) <= 5 mg/Kg
Non volatile residue <= 5 mg/Kg	GC-ECD.Individual peak (Lindane) <= 3 ng/l	Retention time trichlorobenzene to mirex -
GC-NPD.Individual peak (Ethylparathion) <= 3 ng/l	Retention time Atrazin to Coumaphos -	

Code	Size	Packaging
P02422E16	ml 1000	Glass bottle
P02422E21	ml 2500	Glass bottle

## RS-PLUS-for residual pesticide analysis-Stabilized with amylene

CARLO ERBA  
Quality since 1829

Code	Size	Packaging
438682	ml 2500	Glass bottle

For further information on above products, see following product/application section(s)  
Special products for environmental analysis (p. 81)

## RS-PLUS-for residual pesticide analysis-Stabilized with ethanol

CARLO ERBA  
Quality since 1829

Assay (GLC) >= 99.9 %	Description Clear liquid	Colour <= 10 hazen
Water <= 0.01 %	Acidity (HCl) <= 5 ppm	Not volatile residue <= 5 ppm
GC-ECD (Lindano) <= 3 ng/l	GC-NPD (Ethylparation) <= 3 ng/l	

Code	Size	Packaging
438651	ml 1000	Glass bottle
438652	ml 2500	Glass bottle

For further information on above products, see following product/application section(s)  
Special products for environmental analysis (p. 81)

## RS-SPECTROSOL-for optical spectroscopy-Stabilized with amylene

sds

Assay (GC) >= 99.9 %	Refractive index at 20°C 1.444 - 1.448	Water content (K.F.) <= 100 mg/Kg
Colour <= 10 Hazen	UV transmittance at 250 nm >= 50 %	UV transmittance at 260 nm >= 85 %
UV transmittance at 280 nm >= 95 %	Stabilizer (Amylene) 5 - 25 mg/Kg	Free acid (as HCl) <= 5 mg/Kg
see MP acidity Conform	Dichloromethane <= 100 mg/Kg	Carbon tetrachloride <= 100 mg/Kg
Non volatile residue <= 5 mg/Kg		

Code	Size	Packaging
P02427A16	ml 1000	Glass bottle

For further information on above products, see following product/application section(s)  
Solvents for spectroscopy (p. 68)

## RS-SPECTROSOL-for optical spectroscopy-Stabilized with ethanol

sds

Assay (GC) (without stabilizer) >= 99.9 %	Refractive index at 20°C 1.444 - 1.448	Water content (K.F.) <= 100 mg/Kg
Stabilizer (Ethanol) 0.4 - 1 % m/m	Colour <= 10 Hazen	UV transmittance at 250 nm >= 50 %
UV transmittance at 260 nm >= 85 %	UV transmittance at 280 nm >= 95 %	Non volatile residue <= 5 mg/Kg
Free acid (as HCl) <= 5 mg/Kg	Dichloromethane <= 100 mg/Kg	Carbon tetrachloride <= 100 mg/Kg

Code	Size	Packaging
P02427E16	ml 1000	Glass bottle
P02427E21	ml 2500	Glass bottle

For further information on above products, see following product/application section(s)  
Solvents for spectroscopy (p. 68)

## RS-Standard for refractometry

CARLO ERBA  
Quality since 1829

Description Clear colourless liquid	Density at 20° C ~ 1.489	Refractive index at 20° ~ 1.443
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Code	Size	Packaging
438624	ml 1000	Glass bottle

The right refractive index value is indicated on the label. Stabilized with ethanol absolute 0,75%

## Chloroform - Pharmaceutical Grade

## RPH-According to pharmacopoeia: BP-Stabilized with ethanol

CARLO ERBA  
Quality since 1829

Description Clear colourless liquid	Acidity or alkalinity Conform BP	Foreign chlorin. comp. Conform BP
Free chlorine Conform BP	Chloride Conform BP	Aldehyde Conform BP
Density at 20° C 1.474 ÷ 1.479	Boiling point 60 ÷ 62 ° C	Related compounds <=1.0 %
Residue on evaporation <=40 ppm p/v	Ethanol 1.0 ÷ 2.0 % (v/v)	Origin (BSE/TSE) Synthesis

Code	Size	Packaging
334352	ml 100	Glass bottle
334351	ml 1000	Glass bottle
334353	ml 2500	Glass bottle
334356	kg 25	Drum
334355	kg 40	Metal drum
334354	kg 250	Metal drum
529301	l 200	Metallic can

## Chloroform - Technical Grade

## Chloroform - Technical Grade

## PS-Pure-for synthesis-Stabilized with amylene

sds

Assay (GC) >= 99.95 %	Refractive index at 20°C 1.444 - 1.448	Water content (K.F.) <= 100 mg/Kg
Non volatile residue <= 20 mg/Kg	Colour <= 10 Hazen	Free acid (as HCl) <= 10 mg/Kg
Stabilizer (Amylene) 5 - 25 mg/Kg		

Code	Size	Packaging
P02402A16	ml 1000	Glass bottle
P02402A21	ml 2500	Glass bottle
P02402A28	ml 5000	Plastic drum
P02402A40	l 10	Metal tank
P02402A48	l 25	Metal drum

## PS-Pure-for synthesis-Stabilized with ethanol

sds

Assay (GC) (without stabilizer) >= 99.95 %	Refractive index at 20°C 1.444 - 1.448	Water content (K.F.) <= 100 mg/Kg
Non volatile residue <= 20 mg/Kg	Colour <= 10 Hazen	Free acid (as HCl) <= 5 mg/Kg
Stabilizer (Ethanol) 0.6 - 1 % m/m		

Code	Size	Packaging
P02402E16	ml 1000	Glass bottle
P02402E28	ml 5000	Plastic drum
P02402E40	l 10	Metal tank
P02402E48	l 25	Metal drum
P02402E68	l 200	Metal drum

## RE-Pure-Stabilized with amylene

CARLO ERBA  
Quality since 1928

Assay (GLC) >= 99 %	Description Clear colourless liquid	Color <10 APHA
Identity (IR) Positive	Density at 20°C 1.478 ± 1.488	Refractive index at 20°C 1.4461 ± 1.4491
Boiling point 61 + 61.5 °C	Acidity (HCl) <50 ppm	Residue on evaporation <=20 ppm
Water (K.F.) <= 500 ppm	Amylene <= 60 ppm	

Code	Size	Packaging
528325	ml 5000	Metal tank
528327	l 200	Metal drum

## RE-Pure-stabilized with ethanol

CARLO ERBA  
Quality since 1928

Assay (GLC) >= 99 %	Description Clear colourless liquid	Color <= 10 APHA
Identity (IR) Positive	Density at 20°C 1,478 ± 1,488	Refractive index at 20°C 1,4461 ± 1,4491
Boiling point 61,0 + 61,5 °C	Acidity (HCl) <= 50 ppm	Ethyl alcohol 0,6 ± 1 %
Residue on evaporation <= 20 ppm	Water (K.F.) <= 500 ppm	Stab with 0,8 % ethanol


Code	Size	Packaging
508320	ml 1000	Glass bottle
528320	ml 5000	Bottle
528441	l 200	Metal drum

## Chloroform-d

Cloroformio-d - Chloroforme-d - Cloroformo-d

**CDCl<sub>2</sub>**  
Atomic weight: 120,38  
CAS N: 865-49-6  
EEC N: 212-742-4

**Transport classification**  
ONU n. 1888  
Transport class: 6.1  
Packaging group: III

  
R: 22-38-40-48/20/22  
S: 36/37

## Chloroform-d - Special Grade

## RS-For NMR spectroscopy

sds

Code	Size	Packaging	Notes
P5115	ml 25	Glass bottle	Isotopic purity 99,80%
P5135	ml 25	Glass bottle	Isotopic purity 99,96%
P5006	ml 100	Glass bottle	+0,03% TMS - Isotopic purity 99,80%
P5116	ml 100	Glass bottle	Isotopic purity 99,80%
P5325	ml 100	Glass bottle	Stabilized with silver. Isotopic purity 99,80%
P5505	ml 100	Glass bottle	Stabilized with silver. Isotopic purity 99,96%
P5117	ml 500	Glass bottle	Isotopic purity 99,80%
P5118	ml 1000	Glass bottle	Isotopic purity 99,80%
P5119	10 x ml 0,75	Ampoule	Isotopic purity 99,80%
P5130	10 x ml 0,6	Ampoule	Isotopic purity 99,96%
P5139	10 x ml 0,75	Ampoule	Isotopic purity 99,96%

For further information on above products, see following product/application section(s)  
NMR Spectroscopy (p. 65)

## Chloromethyldimethylchlorosilane

Clorometilidimetilclorosilano - Chlorométhyldiméthylchlorosilane - Clorometilidimetilclorosilano

**Cl<sub>2</sub>H<sub>2</sub>Cl<sub>2</sub>Si**  
Atomic weight: 143,090  
CAS N: 1719-57-9  
EEC N: 217-006-6

   
R: 11-14-36/37/38  
S: 3/7

## Chloromethyldimethylchlorosilane - Analytical Grade



## Chloromethyldimethylchlorosilane - Analytical Grade



## RPE-For analysis

Assay (GLC)  $\geq 98\%$  Description Brown clear liquid Density at 20° C  $\geq 1.070$   
 Boiling point 112 ± 115 °C

Code	Size	Packaging
438722	ml 25	Glass bottle

Derivatizer for chromatography

For further information on above products, see following product/application section(s)

Chromatography (p. 34)

 $\alpha$ -Chloronaphthalene*alfa-Chloronafthalene - alpha-Chloronaphthalène - alpha-Cloro naftaleno***C<sub>10</sub>H<sub>7</sub>Cl**

Atomic weight: 162,620

CAS N: 90-13-1

EEC N: 201-967-3



R: 21/22-36/38

S: 35

 $\alpha$ -Chloronaphthalene - Analytical Grade

## RPE-For analysis

Description Yellow clear liquid Density at 20° C 1.189 ± 1.199 Refractive index at 20° 1.6302 ± 1.6362  
 Boiling point 262.3 ± 263.8 °C Residue on ignition  $\leq 100$  ppm

Code	Size	Packaging
438755	ml 500	Glass bottle

## m-Chloroperbenzoic acid

*Acido m-cloroperbenzoico - Acide m-chloroperbenzoïque - Acido m-cloroparbenzoico***C<sub>7</sub>H<sub>5</sub>ClO<sub>3</sub>**

Atomic weight: 172,57

CAS N: 937-14-4

EEC N: 213-322-3

Transport classification

ONU n. 3106

Transport class: 5.2

Packaging group: II



R: 7-36/37/38

S: 14-3/7-36/37/39

## m-Chloroperbenzoic acid - Analytical Grade



## RPE-For analysis

Assay (iodometric) ~ 70 % Description White powder m-Chlorobenzoic acid ~ 10 %  
 Water ~ 20 %

Code	Size	Packaging
407472	g 100	Plastic jar

## 2-Chlorophenol

*2-Clorofenolo - o-Chlorophénol - o-Clorofenol***C<sub>6</sub>H<sub>4</sub>OH**

Atomic weight: 128,56

CAS N: 95-57-8

EEC N: 202-433-2

Transport classification

ONU n. 2021

Transport class: 6.1

Packaging group: III



R: 20/21/22-51/53

S: 28-61

## 2-Chlorophenol - Analytical Grade



## RPE-For analysis

Assay (GLC)  $\geq 99\%$  Description Liquido limpido incolore o giallo Density at 20° C 1.259 ± 1.265  
 Refractive index at 20° 1.5540 ± 1.5600 Boiling point 175.0 ± 176.0 °C Melting point 8.2 ± 9.2 °C  
 Water (K.F.)  $\leq 0.1\%$  Residue on ignition  $\leq 100$  ppm

Code	Size	Packaging
438401	ml 100	Glass bottle
438403	ml 1000	Glass bottle

## 2-Chlorophenol - Technical Grade



## RE-Puro for fibers-ERBATECH

Assay (GLC) 99 + 100 % Description Clear colourless liquid Density at 20° C 1.259 ± 1.265  
 Refractive index at 20° 1.5540 ± 1.5600 Boiling point 175.0 ± 176.0 °C Melting point 8.2 ± 9.2 °C  
 Water (K.F.)  $\leq 0.1\%$  Residue on ignition  $\leq 100$  ppm

Code	Size	Packaging
438451	ml 1000	Glass bottle

## 4-Chlorophenol

*4-Clorofenolo - p-Chlorophénol - p-Clorofenol***C<sub>6</sub>H<sub>4</sub>OH**

Atomic weight: 128,56

CAS N: 106-48-9

EEC N: 203-402-6

Transport classification

ONU n. 2020

Transport class: 6.1

Packaging group: III



R: 20/21/22-51/53

S: 28-61

## 4-Chlorophenol - Analytical Grade

## 4-Chlorophenol - Analytical Grade

## RPE-For analysis



Assay (GLC)  $\geq 99\%$  Description Yellowish crystals Melting point  $41.5 \pm 44.5^\circ\text{C}$   
Residue on ignition  $\leq 100$  ppm

Code	Size	Packaging
438504	g 100	Glass jar
438507	g 1000	Glass bottle

## Chlorophenol Red solution 0.4% in ethanol

$\text{C}_{19}\text{H}_{12}\text{Cl}_2\text{O}_6\text{S}/\text{C}_2\text{H}_5\text{OH}$   
CAS N: 4430-20-0  
EEC N: 224-619-2

Transport classification  
ONU n. 1993  
Transport class: 3  
Packaging group: III

R: 10

## Chlorophenol Red solution 0.4% in ethanol - Analytical Grade

## RPE-For analysis



Description Red clear liquid pH range 5.0 - 6.6

Code	Size	Packaging
476724	ml 100	Bottle

Indicator according to Clark (pH 4,6-7,0).

## Chlorophyll

Clorofilla - Chlorophylle - Clorofila

$\text{C}_{55}\text{H}_{71}\text{MgN}_4\text{O}_6 \cdot 3\text{Na}$   
CAS N: 15203-43-7  
EEC N: 239-258-6

## Chlorophyll - Analytical Grade

## RPE-For analysis-soluble in water and alcohols



Titolo ( Na clorofilla )  $\geq 100\%$  Description Dark green powder pH 9.5  $\pm$  0.2  
Sostanze volatili 0  $\pm$  5 %

Code	Size	Packaging
438554	g 100	Plastic jar
438557	g 1000	Plastic jar

Soluble in oils and fats  
Soluble in water and alcohols

## RPE-For analysis-soluble in oils and fats



Description Black-greenish mass Chlorophyll alfa 3 + 6 Chlorophyll beta 0.4 + 0.8  
Total chlorophyll 3.4 + 6.8

Code	Size	Packaging
438573	g 50	Glass jar
438577	g 1000	Metallic can
438579	g 5000	Metallic can

## Chlorosulphonic acid

Acido clorosolfonico - Acide chlorosulfonique - Acido clorosulfónico

$\text{ClSO}_3\text{H}$   
Atomic weight: 116,53  
CAS N: 7790-94-5  
EEC N: 232-234-6

Transport classification  
ONU n. 1754  
Transport class: 8  
Packaging group: I



R: 14-35-37  
S: 26-45

## Chlorosulphonic acid - Analytical Grade

## RPE-For analysis



Assay (acidimetric)  $\geq 99\%$  Description Yellowish liquid Density at  $20^\circ\text{C}$  1.750  $\pm$  1.760  
Fe  $\leq 5$  ppm

Code	Size	Packaging
404822	ml 500	Glass bottle

## m-Chlorotoluene

m-Chlorotoluene - m-Chlorotoluène - m-Cloro tolueno

$\text{C}_7\text{H}_7\text{Cl}$   
CAS N: 108-41-8  
EEC N: 203-580-5

Transport classification  
ONU n. 2238  
Transport class: 3  
Packaging group: III



R: 20-51/53  
S: 24/25-61

## m-Chlorotoluene - Analytical Grade

## m-Chlorotoluene - Analytical Grade



## RPE-For analysis

Assay (GLC) $\geq 99$ %	Description Clear colourless liquid	Density at 20° C 1.067 + 1.077
Refractive index at 20° 1.5194 + 1.5234	Boiling point 161.5 + 162.5 ° C	Residue on evaporation $\leq 100$ ppm
Acidity (HCl) $\leq 100$ ppm		

Code	Size	Packaging
439001	ml 25	Glass bottle

## o-Chlorotoluene

*o-Chlorotoluene - o-Chlorotoluène - o-Chlorotolueno*

**C<sub>7</sub>H<sub>7</sub>Cl**  
 Atomic weight: 126,580  
 CAS N: 95-49-8  
 EEC N: 202-424-3

Transport classification  
 ONU n. 2238  
 Transport class: 3  
 Packaging group: III



## o-Chlorotoluene - Analytical Grade



## RPE-For analysis

Assay (GLC) 99 + 100 %	Description Clear colourless liquid	Density at 20° C 1.079 + 1.085
Refractive index at 20° 1.5218 + 1.5258	Boiling point 158.5 + 159.5 ° C	Acidity (HCl) $\leq 100$ ppm
Residue on ignition $\leq 100$ ppm		

Code	Size	Packaging
438952	ml 250	Glass bottle

## p-Chlorotoluene

*p-Chlorotoluene - p-Chlorotoluène - p-Chlorotolueno*

**C<sub>7</sub>H<sub>7</sub>Cl**  
 Atomic weight: 126,580  
 CAS N: 95-49-8  
 EEC N: 203-397-0

Transport classification  
 ONU n. 2238  
 Transport class: 3  
 Packaging group: III



## p-Chlorotoluene - Analytical Grade



## RPE-For analysis

Assay (GLC) 99 + 100 %	Description Clear colourless liquid	Density at 20° C 1.065 + 1.075
Refractive index at 20° 1.5159 + 1.5239	Boiling point 161.5 + 162.5 ° C	Melting point 7.0 + 8.0 ° C
Residue on evaporation $\leq 100$ ppm	Acidity (HCl) $\leq 100$ ppm	

Code	Size	Packaging
439052	ml 100	Glass bottle

## p-Chlorotoluene - Technical Grade

## RE-Pure



Assay (GLC) 98 + 100 %	Description Liq. limp incolore o giall.	Density at 20° C 1.063 + 1.077
Refractive index at 20° 1.5139 + 1.5259	Boiling point 161.3 + 162.8 ° C	Residue on evaporation $\leq 100$ ppm

Code	Size	Packaging
334501	ml 500	Glass bottle

## Cholesterol

*Colesterolo - Cholestérol - Colesterol*

**C<sub>27</sub>H<sub>46</sub>O**  
 Atomic weight: 386,65  
 CAS N: 57-88-5  
 EEC N: 200-353-2



## Cholesterol - Special Grade

## RS-For microanalysis



Description White powder	C 83.87 %	H 11.99 %
O 4.14 %		

Code	Size	Packaging
439771	g 2	Glass bottle

## Cholesterol - Pharmaceutical Grade

## RPH-According to pharmacopoeia: Ph.Eur.-NF-FU-BP



Assay (cholesterol) $\geq 95.0$ % ss	Assay (total sterols) 97.0 + 103.0 % ss	Description Yellowish powder
Acidity Conform Ph.Eur.	Alcohol solubility Conform Ph.Eur.	Organic volatile impurities Conform NF
Melting point 147 + 150 ° C	Specific optical rotation -34 + -38 °	Loss on drying $\leq 0.3$ %
Sulphated ash $\leq 0.1$ %	Origin (BSE/TSE) Animal	

Code	Size	Packaging
335532	g 100	Bottle

For biochemistry

## Chromate

Cromati - Chromate - Cromatos

## Chromate - Special Grade

## RS-Standard solution for ion chromatography



Code	Size	Packaging	Notes
503240	ml 50	Plastic bottle	conc. 1.000 ppm
503241	ml 100	Plastic bottle	conc. 1.000 ppm
503242	ml 250	Plastic bottle	conc. 1.000 ppm
503243	ml 500	Plastic bottle	conc. 1.000 ppm

For further information on above products, see following product/application section(s)  
Chromatography (p. 34)

## Chromazurol S

Cromazurol S - Chromazurol S - Cromazurol S

$\text{C}_{22}\text{H}_{16}\text{O}_6\text{SCl}_2\text{Na}_2$   
Atomic weight: 605,28  
CAS N: 1667-99-8  
EEC N: 216-787-0



R: 20/21/22-36/37/38  
S: 22-24/25

## Chromazurol S - Analytical Grade

## RPE-For analysis-C.I. 43825



Description Dark brown powder

Code	Size	Packaging
440591	g 1	Glass bottle

Complexometry indicator. For the analysis of Be and Al

For further information on above products, see following product/application section(s)  
Indicators (p. 50)

## Chromium

Cromo - Chrome - Cromo

## Transport classification

ONU n. 3264  
Transport class: 8  
Packaging group: II  
Packaging group: III



R: 45-46-60-61-23-42/43-48/20-52/  
S: 53-45-60-61

## Chromium - Special Grade

## RS-NORMEX-concentrated solution for AAS



Description Orange clear liquid Titration factor 0.995 + 1.005

Code	Size	Packaging	Notes
440641	Ampoule	Plastic vial	conc. 1.000 ppm

Concentrated volumetric solution to prepare 1 l of solution 1 mg/ml

For further information on above products, see following product/application section(s)  
Trace metal analysis (p. 86)

## RS-Standard solution for AAS



Description Green-grey clear liquid Titration factor 0.998 + 1.002

Code	Size	Packaging	Notes
497505	ml 100	Glass bottle	conc. 1.000 ppm
497501	ml 500	Plastic bottle	conc. 1.000 ppm

Ready-to-use solution: concentration 1 mg/ml

## RS-Standard solution for ICP



Code	Size	Packaging	Notes
503521	ml 100	Plastic bottle	Matrice: Nitric acid, conc. 1.000 ppm
503525	ml 100	Plastic bottle	Matrice: Nitric acid, conc. 10.000 ppm
503523	ml 500	Plastic bottle	Matrice: Nitric acid, conc. 1.000 ppm
503527	ml 500	Plastic bottle	Matrice: Nitric acid, conc. 10.000 ppm

Provided with real batch certificate. Verified against NIST Standard Reference

For further information on above products, see following product/application section(s)  
Trace metal analysis (p. 86)

## RS-Standard solution for ICP-MS



Code	Size	Packaging	Notes
505566	ml 50	Plastic bottle	Matrice: Nitric acid, conc. 10 ppm
505567	ml 100	Plastic bottle	Matrice: Nitric acid, conc. 10 ppm
505568	ml 100	Plastic bottle	Matrice: Nitric acid, conc. 100 ppm

For further information on above products, see following product/application section(s)  
Trace metal analysis (p. 86)

## Chromium (III) acetate

Cromo acetato ico - Chrome (-ique) acétate - Cromo acetato ico

 $\text{Cr}(\text{CH}_3\text{COO})_3$ Atomic weight: 229  
CAS N: 1066-30-4  
EEC N: 213-909-4

## Chromium (III) acetate - Analytical Grade

## RPE-For analysis



Assay (oxidimetric) $\geq 23.5\%$ Cr	Description Geen crystalline powder	pH sol. 5% at 25° C 4.0 + 6.0
Ammonium $\leq 80$ ppm	Chloride $\leq 200$ ppm	Acid insoluble $\leq 500$ ppm
Heavy metals (Pb) $\leq 30$ ppm	Subst. not ppt $\text{NH}_4\text{OH} \leq 0.2\%$	Sulphate $\leq 500$ ppm
Al $\leq 200$ ppm	Fe $\leq 50$ ppm	

Code	Size	Packaging
440675	g 250	Plastic jar
440677	g 1000	Plastic jar

## Chromium (III) chloride

Cromo cloruro ico - Chrome (-ique) chlorure - Cromo cloruro ico

 $\text{CrCl}_3 \cdot 6\text{H}_2\text{O}$ Atomic weight: 158,36  
CAS N: 10060-12-5  
EEC N: 233-038-3R: 22-37-38  
S: 24/25

## Chromium (III) chloride - Analytical Grade

## RPE-For analysis



Assay (oxidimetric) $\geq 95.0\%$	Description Polvere cristallina verde scuro	pH solution 5% 2.0 + 3.5
Non precipit. con $\text{NH}_4\text{OH}$ ( $\text{SO}_4$ ) $\leq 0.2\%$	Ammonium $\leq 100$ ppm	Sulphate $\leq 200$ ppm
Fe $\leq 100$ ppm	Pb $\leq 50$ ppm	

Code	Size	Packaging
440724	g 100	Glass jar
440727	g 1000	Plastic jar

## Chromium (III) chloride - Pharmaceutical Grade

## RPH-According to pharmacopoeia: USP



Assay (Cr) 19.13 + 19.71 %	Assay 98.0 + 101.0 %	Description Green crystals
Water-insoluble matter $\leq 100$ ppm	Sulphate $\leq 100$ ppm	Subst. not ppt $\text{NH}_4\text{OH} \leq 0.2\%$
Fe $\leq 100$ ppm		

Code	Size	Packaging
336501	g 1000	Jar

## Chromium (III) chloride - Technical Grade

## RE-Pure



Assay (oxidimetric) $\geq 95\%$	Description Cristall i verdi	Subst. not ppt $\text{NH}_4\text{OH} \leq 0.2\%$
Sulphate $\leq 100$ ppm	Fe $\leq 100$ ppm	Pb $\leq 50$ ppm

Code	Size	Packaging
440742	g 5000	Plastic jar

## Chromium (III) nitrate

Cromo nitrato ico - Chrome (-ique) nitrate - Cromo nitrato ico

 $\text{Cr}(\text{NO}_3)_3 \cdot 9\text{H}_2\text{O}$ Atomic weight: 400,150  
CAS N: 7789-02-8  
EEC N: 236-921-1

Transport classification

ONU n. 2720

Transport class: 5.1

Packaging group: III

R: 8-36/37/38  
S: 17-22-24/25

## Chromium (III) nitrate - Analytical Grade

## RPE-For analysis



Assay (oxidimetric) 11.5 + 12.5 % Cr	Description Violet crystals	pH sol. 5% at 25° C 2.0 + 3.0
Ammonium $\leq 50$ ppm	Chloride $\leq 50$ ppm	Water-insoluble matter $\leq 100$ ppm
Heavy metals (Pb) $\leq 50$ ppm	Subst. not ppt $\text{NH}_4\text{OH} \leq 0.1\%$	Sulphate $\leq 50$ ppm
Al $\leq 200$ ppm	Fe $\leq 50$ ppm	

Code	Size	Packaging
440775	g 250	Glass jar

## Chromium (III) oxide

Cromo sesquiossido - Chrome sesquioxyde - Cromo sesquióxido

 $\text{Cr}_2\text{O}_3$ Atomic weight: 151,99  
CAS N: 1308-38-9  
EEC N: 215-160-9

## Chromium (III) oxide - Analytical Grade

## Chromium (III) oxide - Analytical Grade

## RPE-For analysis



Assay (oxidimetric) >= 99 %	Description Green powder	Water solubility <= 0.2 %
<b>Code</b>	<b>Size</b>	<b>Packaging</b>
440825	g 250	Plastic jar
440827	g 1000	Plastic jar
440823	kg 25	Fibre drum

## Chromium (III) potassium sulphate

Cromo potassio solfato ico - Chrome (-ique) potassium sulfate - Cromo y potasio sulfato ico

$\text{CrK}(\text{SO}_4)_2 \cdot 12\text{H}_2\text{O}$   
 Atomic weight: 499,41  
 CAS N: 7788-99-0  
 EEC N: 233-401-6

## Chromium (III) potassium sulphate - Analytical Grade

## RPE-ACS-for analysis



Assay (oxidimetric) 98.0 + 102.0 %	Description Purple crystals	Water-insoluble matter <= 100 ppm
Ammonium <= 100 ppm	Chloride <= 20 ppm	Heavy metals (Pb) <= 100 ppm
Al <= 200 ppm	Fe <= 100 ppm	
<b>Code</b>	<b>Size</b>	<b>Packaging</b>
440877	g 1000	Plastic jar

## Chromium (III) potassium sulphate - Technical Grade

## RE-Pure



Assay (iodometric) >= 99 %	Description Dark violet crystals	Water-insoluble matter <= 0.01 %
Chloride <= 20 ppm	Ammonium <= 100 ppm	Al <= 200 ppm
Fe <= 100 ppm		
<b>Code</b>	<b>Size</b>	<b>Packaging</b>
336457	g 1000	Plastic jar
336454	kg 50	Fibre drum

## Chromium (III) sulphate

Cromo solfato ico - Chrome (-ique) sulfate - Cromo sulfato ico

$\text{Cr}_2(\text{SO}_4)_3 \cdot n\text{H}_2\text{O}$   
 Atomic weight: 340 (AN)  
 CAS N: 15244-38-9

## Chromium (III) sulphate - Analytical Grade

## RPE-For analysis



Assay (iodometric) >= 75 $\text{Cr}_2(\text{SO}_4)_3$	Description Dark green crystals	pH sol. 5% at 25° C 1.00 + 2.50
Ammonium <= 100 ppm	Chloride <= 500 ppm	Fe <= 0.1 %
<b>Code</b>	<b>Size</b>	<b>Packaging</b>
440955	g 250	Glass jar
440957	g 1000	Glass jar

## Chromium (VI) oxide

Anidride cromica - Anhydride chromique - Anhídrido crómico

$\text{CrO}_3$   
 Atomic weight: 99,994  
 CAS N: 1333-82-0  
 EEC N: 215-607-8

Transport classification  
 ONU n. 1463  
 Transport class: 5.1  
 Secondary risk: 8  
 Packaging group: II



R: 45-46-9-24/25-26-35-42/43-48/2  
 S: 53-45-60-61

## Chromium (VI) oxide - Analytical Grade

## RPE-ACS-for analysis-Reag. Ph.Eur.-Reag. USP



Assay (oxidimetric) >= 98.0 %	Description Purple crystals	Water-insoluble matter <= 100 ppm
Chloride <= 50 ppm	Nitrate <= 500 ppm	Sulphate <= 50 ppm
Fe, Al, Ba <= 300 ppm	Na <= 0.2 %	
<b>Code</b>	<b>Size</b>	<b>Packaging</b>
421735	g 250	Plastic jar
421737	g 1000	Plastic jar
421731	kg 25	Drum

Violet crystals. Dangerous for the environment

For further information on above products, see following product/application section(s)  
 Microscopy (p. 58)

## Chromium (VI) oxide - Technical Grade

## Chromium (VI) oxide - Technical Grade

## RE-Pure



A

B

C

D

E

F

G

H

I

J

K

L

M

N

O

P

Q

R

S

T

U

V

W

X

Y

Z

Assay (oxidimetric) &gt;=97 %

Description Amassed red - purple flakes or crystals

Chloride &lt;=0.1 %

Water-insoluble matter &lt;=0.5 %

Sulphate &lt;=0.2 %

Code	Size	Packaging
317507	g 1000	Plastic jar
317503	kg 25	Metallic can

Dangerous for the environment

## Chromium (VI) oxide solution

Anidride cromica soluzione - Anhydride chromique solution - Anhidrido crómico solución

CrO<sub>3</sub>

Atomic weight: 99,994

CAS N: 1333-82-0

EEC N: 215-607-8

Transport classification

ONU n. 1755

Transport class: 8

Packaging group: II



R: 24/25-26-35-42/43-45-46-48/23-

S: 53-45-60-61

## Chromium (VI) oxide solution - Technical Grade

## RE-Pure



Assay (oxidimetric) 294.6 + 300.6 g/l

Description Orange clear liquid

Chloride &lt;=500 ppm

Sulphate &lt;=0.1 %

Code	Size	Packaging
317511	ml 2500	Bottle

## Chromotrope 2R

Cromotrope 2R - Chromotrope 2R - Cromotrope 2R

C<sub>10</sub>H<sub>10</sub>Na<sub>2</sub>O<sub>8</sub>S<sub>2</sub>

Atomic weight: 468,37

CAS N: 4197-07-3

EEC N: 224-085-0

Transport classification

ONU n. 3143

Transport class: 6.1

Packaging group: III



R: 20/21/22-36/37/38

S: 26-36

## Chromotrope 2R - Analytical Grade

## RPE-For analysis-C.I. 16570



Description Red brown powder

Code	Size	Packaging
440971	g 25	Plastic jar

Stain for Microscopy Complexometry indicator.

## Chromotropic acid disodium salt

Acido cromotropico sale bisodico - Acide chromotropique sel disodique - Acido cromotrópico sal disódica

1,6-(OH)<sub>2</sub>C<sub>6</sub>H<sub>3</sub>(SO<sub>3</sub>Na)<sub>2</sub>·2H<sub>2</sub>O

Atomic weight: 400,29

CAS N: 5808-22-0

EEC N: 204-972-9

## Chromotropic acid disodium salt - Analytical Grade

## RPE-For analysis



Assay (acidimetric) &gt;= 98.5 %

Description Whitish powder

Water-insoluble matter &lt;= 0.02 %

Nitrate sensitivity Conform

Formaldehyde sensit. Conform

Code	Size	Packaging
404872	g 25	Glass jar

For further information on above products, see following product/application section(s)

Indicators (p. 50)

## Chrysoidine Y

Crisoidina Y - Chrysoidine Y - Crisoidina Y

C<sub>12</sub>H<sub>10</sub>ClN<sub>4</sub>

Atomic weight: 248,71

CAS N: 532-82-1

EEC N: 208-545-8

Transport classification

ONU n. 3143

Transport class: 6.1

Packaging group: III



R: 20/21/22

## Chrysoidine Y - Special Grade

## RS-For microscopy-C.I. 11270



Description Dark red powder

Code	Size	Packaging
440572	g 25	Glass jar

Stain for Bacteriology-botany.

For further information on above products, see following product/application section(s)

Microscopy (p. 58)

## Cinchonine

Cinconina - Cinchonine - Cinconina

**C<sub>19</sub>H<sub>22</sub>N<sub>2</sub>O**  
Atomic weight: 294,38  
CAS N: 118-10-5  
EEC N: 204-234-6

### Cinchonine - Analytical Grade

#### RPE-For analysis



Assay (non-aqueous medium) >= 99 %	Description White powder	Ready carbonizable substances Conform
Melting point 260 + 265 °C	Specific optical rotation (c=5 in Ethano +225 + +230 °	Loss on drying <= 1 %
Total chlorine <= 300 ppm	Dil. H2SO4-ins. matter <= 200 ppm	Heavy metals (Pb) <= 10 ppm
Residue on ignition <= 0.1 %	Total sulphur <= 50 ppm	Fe <= 10 ppm

Code	Size	Packaging
437251	g 10	Glass jar

For racemic resolution

## Cinnamic acid

Acido cinnamico - Acide cinnamique - Acido cinnámico

**C<sub>9</sub>H<sub>8</sub>CH:CHCOOH**  
Atomic weight: 148,16  
CAS N: 621-82-9  
EEC N: 210-708-3



R: 36/37/38  
S: 28

### Cinnamic acid - Analytical Grade

#### RPE-For analysis



Assay (acidimetric) >=99 %	Description White crystalline powder	Melting point 134.3 + 136.7 ° C
Loss on drying (P2O5) <=1 %	Total chlorine <=50 ppm	Alcohol-insolub. matter <=100 ppm
Heavy metals (Pb) <=20 ppm	Residue on ignition <=500 ppm	Total sulphur <=50 ppm
As <=1 ppm	Fe <=20 ppm	

Code	Size	Packaging
403675	g 250	Plastic jar

## Cinnamic aldehyde

Aldeide cinnamica - Aldéhyde cinnamique - Aldehído cinnámico

**C<sub>9</sub>H<sub>8</sub>CH:CHCHO**  
Atomic weight: 132,15  
CAS N: 104-55-2  
EEC N: 203-213-9



R: 36/38  
S: 24/25

### Cinnamic aldehyde - Technical Grade

#### RE-Pure



Assay (GLC) >= 98 %	Description Yellow clear liquid	Density at 20° C 1.048 + 1.051
Refractive index at 20° 1.6065 + 1.6365	Acid value <= 2	Residue on ignition <= 100 ppm

Code	Size	Packaging
310257	ml 1000	Glass bottle

For perfumery

For further information on above products, see following product/application section(s)  
Microscopy (p. 58)

## Citral

Citrals - Citral - Citral

**(CH<sub>3</sub>)<sub>2</sub>C:CH(CH<sub>2</sub>)<sub>2</sub>C(CH<sub>3</sub>)CHCHO**  
Atomic weight: 152,23  
CAS N: 5392-40-5  
EEC N: 226-394-6



R: 38-43  
S: 24/25-37

Synonymes  
3,7-Diméthyl-octadiène-2,6-al  
Géranial

### Citral - Technical Grade

#### RE-Pure



Assay (GLC) >= 97 %	Description Yellow liquid	Density at 20° C 0.886 + 0.890
Refractive index at 20° 1.4870 + 1.4910	Residue on ignition <=500 ppm	

Code	Size	Packaging
437401	ml 25	Glass bottle

## Citric acid

Acido citrico - Acide citrique - Acido cítrico

**C<sub>6</sub>H<sub>8</sub>O<sub>7</sub>·H<sub>2</sub>O**  
Atomic weight: 210,14  
CAS N: 5949-29-1  
EEC N: 201-069-1

### Citric acid - Analytical Grade



## Citric acid - Analytical Grade

## RPE-ACS-ISO-for analysis-Reag. Ph.Eur.-Reag. USP



Assay (acidimetric) 99.5 + 100.5 % s.s.	Description White crystals	Water-insoluble matter <=50 ppm
Chloride <=10 ppm	Phosphate <=10 ppm	Sulphate <=20 ppm
Fe <=3 ppm	Pb <=2 ppm	Substances darkened by sulphuric acid Conform
Appearance of solution Conform	Organic volatile impurities Conform	Water (K.F.) 7.5 + 8.8 %
Oxalic acid <=350 ppm	Sulphated ash <=200 ppm	Heavy metals (Pb) <=10 ppm
As <=3 ppm		

Code	Size	Packaging
403725	g 250	Plastic jar
403727	g 1000	Plastic jar
403721	g 5000	Plastic jar
403722	kg 50	Carton drum

## Citric acid anhydrous

*Acido citrico anidro - Acide citrique anhydre - Acido citrico anhidro***C<sub>6</sub>H<sub>8</sub>O<sub>7</sub>**Atomic weight: 192,13  
CAS N: 77-92-9  
EEC N: 201-069-1R: 36  
S: 26

## Citric acid anhydrous - Pharmaceutical Grade

## RPH-According to pharmacopoeia: Ph.Eur.-USP-FU-BP-DAB



Assay (acidimetric) 99.5 + 100.5 % s.s.	Description White crystalline powder	Appearance of solution Conform Ph.Eur.
Ready carbonizable substances Conform USP-NF	Organic volatile impurities Conform USP-NF	Water (K.F.) <= 1.0 %
Oxalic acid <= 360 ppm	Sulphated ash <= 0.1 %	Sulphate <= 150 ppm
Heavy metals (Pb) <= 10 ppm	Origin (BSE/TSE) Vegetable	Residual solvents (CPMP/ICH/283/95) Conform

Code	Size	Packaging
302486	g 500	Plastic jar
302485	g 5000	Plastic jar
302484	kg 50	Fibre drum

## Citric acid crystalline powder

*Acido citrico semolato - Acide citrique en poudre cristalline - Acido citrico en polvo cristallino***C<sub>6</sub>H<sub>8</sub>O<sub>7</sub>·H<sub>2</sub>O**Atomic weight: 210,14  
CAS N: 5949-29-1  
EEC N: 201-069-1

## Citric acid crystalline powder - Pharmaceutical Grade

## RPH-According to pharmacopoeia: Ph.Eur.-USP-FU-BP-DAB



Assay (acidimetric) 99.5 + 100.5 % s.s.	Description White crystals	Appearance of solution Conform Ph.Eur.
Ready carbonizable substances Conform USP-NF	Water (K.F.) 7.5 + 9.0 %	Oxalic acid <= 360 ppm
Sulphated ash <= 0.1 %	Sulphate <= 150 ppm	Heavy metals (Pb) <= 10 ppm
Origin (BSE/TSE) Vegetable	Residual solvents (CPMP/ICH/283/95) Conform	

Code	Size	Packaging
302557	g 1000	Plastic jar
302559	g 5000	Plastic jar
302551	kg 25	Sack
302554	kg 50	Carton drum

## Citric acid powder

*Acido citrico polvere - Acide citrique en poudre - Acido citrico en polvo***C<sub>6</sub>H<sub>8</sub>O<sub>7</sub>·H<sub>2</sub>O**Atomic weight: 210,14  
CAS N: 5949-29-1  
EEC N: 201-069-1

## Citric acid powder - Pharmaceutical Grade

## RPH-According to pharmacopoeia: Ph.Eur.-USP-FU-BP-DAB



Assay (acidimetric) 99.5 + 100.5 % s.s.	Description White crystalline powder	Appearance of solution Conform Ph.Eur.
Ready carbonizable substances Conform USP-NF	Water (K.F.) 7.5 + 9.0 %	Oxalic acid <= 360 ppm
Sulphated ash <= 0.1 %	Sulphate <= 150 ppm	Heavy metals (Pb) <= 10 ppm
Origin (BSE/TSE) Vegetable	Residual solvents (CPMP/ICH/283/95) Conform	

Code	Size	Packaging
302507	g 1000	Plastic jar
302509	g 5000	Plastic jar
302501	kg 25	Fibre drum
302504	kg 50	Fibre drum

## L(+)-Citrulline

L(+)-Citrullina - L(+)-Citrulline - L(+)-Citrulina

 $\text{NH}_2\text{CO}_2\text{H}(\text{CH}_2)_5\text{CH}(\text{NH}_2)\text{COOH}$ 

Atomic weight: 175,19

CAS N: 372-75-8

EEC N: 206-759-6

## L(+)-Citrulline - Analytical Grade

## RPE-For analysis

Assay (acidimetric)  $\geq 99\%$   
Loss on drying  $\leq 0.5\%$ 

Description White crystalline powder

Specific optical rotation  $+21.0 + 23.0^\circ$ 

Code	Size	Packaging
437501	g 5	Glass jar

For biochemistry

## Clarcel FLO M

Clarcel FLO M - Clarcel FLO® M - Clarcel FLO M

Synonymes  
Célite

## Clarcel FLO M - Technical Grade

## PS-For filtration-liquid-solid separation



Code	Size	Packaging
P8770014	g 500	Plastic bottle
P8770017	g 1000	Plastic jar
P8770027	g 5000	Metal bucket

For further information on above products, see following product/application section(s)  
Chromatography (p. 34)

## Clayton's yellow

Giallo Clayton - Jaune Clayton - Amarillo Clayton

 $\text{C}_{20}\text{H}_{19}\text{N}_3\text{O}_5\text{S}_2\text{Na}_2$ 

Atomic weight: 695,73

CAS N: 1829-00-1

EEC N: 217-377-4

Transport classification

ONU n. 3143

Transport class: 6.1

Packaging group: III

R: 36/37/38  
S: 22-24/25

## Clayton's yellow - Analytical Grade

## RPE-For analysis-C.I. 19540



Description Yellow brown powder

pH range 1.2 - 13.2

Loss on drying  $\leq 10\%$ Mg sensitivity  $\leq 0.5 \mu\text{g/ml}$ 

Residue on ignition 18.4 + 22.4 %

Code	Size	Packaging
453518	g 5	Glass jar
453591	g 25	Plastic jar

Indicator (pH 12,2+13,2).

Stain for Microscopy. Indicator (pH 12,0+13,0). For analysis of Mg

## Cobalt

Cobalto - Cobalt - Cobalto

Co

Transport classification

ONU n. 3264

Transport class: 8

Packaging group: II

Packaging group: III

R: 42/43  
S: 28-36/37

## Cobalt - Special Grade

## RS-NORMEX-concentrated solution for AAS



Description Clear colourless liquid

Titration factor 0.995 + 1.005

Code	Size	Packaging	Notes
439131	Ampoule	Plastic vial	conc. 1.000 ppm

Concentrated volumetric solution to prepare 1 l of solution 1 mg/ml

For further information on above products, see following product/application section(s)

Trace metal analysis (p. 86)

## RS-Standard solution for AAS



Description Clear colourless liquid

Titration factor 0.998 + 1.002

Code	Size	Packaging	Notes
497495	ml 100	Glass bottle	conc. 1.000 ppm
497491	ml 500	Plastic bottle	conc. 1.000 ppm

Ready-to-use solution: concentration 1 mg/ml

## Cobalt - Special Grade

## RS-Standard solution for ICP



Code	Size	Packaging	Notes
503511	ml 100	Plastic bottle	Matrice: Nitric acid, conc. 1.000 ppm
503515	ml 100	Plastic bottle	Matrice: Nitric acid, conc. 10.000 ppm
503513	ml 500	Plastic bottle	Matrice: Nitric acid, conc. 1.000 ppm
503517	ml 500	Plastic bottle	Matrice: Nitric acid, conc. 10.000 ppm

Provided with real batch certificate. Verified against NIST Standard Reference

For further information on above products, see following product/application section(s)  
Trace metal analysis (p. 86)

## RS-Standard solution for ICP-MS



Code	Size	Packaging	Notes
505561	ml 50	Plastic bottle	Matrice: Nitric acid, conc. 10 ppm
505562	ml 100	Plastic bottle	Matrice: Nitric acid, conc. 10 ppm
505565	ml 100	Plastic bottle	Matrice: Nitric acid, conc. 100 ppm

For further information on above products, see following product/application section(s)  
Trace metal analysis (p. 86)

## Cobalt lumps

Cobalto pezzi - Cobalt morceaux - Cobalto en trozos

Co  
Atomic weight: 58,94  
CAS N: 7440-48-4  
EEC N: 231-158-0



R: 42/43-53  
S: 22-24-37-61

## Cobalt lumps - Analytical Grade

## RPE-For analysis



Assay 99 % Description Metallic pieces

Code	Size	Packaging
439104	g 100	Sack

## Cobalt (II) acetate

Cobalto acetato oso - Cobalt II acétate - Cobalto acetato oso

Co(CH<sub>3</sub>COO)<sub>2</sub>·5H<sub>2</sub>O  
Atomic weight: 249,08  
CAS N: 6147-53-1  
EEC N: 200-755-8



R: 22-40-42/43  
S: 22-36/37

## Cobalt (II) acetate - Analytical Grade

## RPE-For analysis



Assay (complexometric) 98.0 + 100.0 % Description Red-violet powder pH sol. 5% at 25° C 5.95 + 7.45  
Chloride <=50 ppm Sulphate <=100 ppm Cu <=50 ppm  
Fe <=10 ppm Ni <=0.1 % Zn <=200 ppm

Code	Size	Packaging
439154	g 100	Glass jar
439155	g 250	Glass jar

## Cobalt (II) ammonium sulphate

Cobalto ammonio solfato oso - Cobalt II ammonium sulfate - Cobalto y amonio sulfato oso

Co(NH<sub>4</sub>)<sub>2</sub>(SO<sub>4</sub>)<sub>2</sub>·6H<sub>2</sub>O  
Atomic weight: 395,23  
CAS N: 13596-46-8  
EEC N: 237-043-1



R: 22-40-42/43  
S: 22-36/37

## Cobalt (II) ammonium sulphate - Analytical Grade

## RPE-For analysis



Assay (complexometric) >=98 % Description Red crystal. powder pH sol. 5% at 25° C 4.0 + 7.0  
Chloride <=20 ppm Water-insoluble matter <=100 ppm Nitrate <=20 ppm  
Subst. not ppt. (NH<sub>4</sub>)<sub>2</sub>S <=0.3 % Cu <=10 ppm Fe <=30 ppm  
Ni <=0.1 % Pb <=10 ppm Zn <=50 ppm

Code	Size	Packaging
439204	g 100	Glass jar
439207	g 1000	Glass jar

## Cobalt (II) carbonate basic

Cobalto carbonato basico oso - Cobalt II carbonate basique - Cobalto carbonato basico oso

2CoCO<sub>3</sub>·3Co(OH)<sub>2</sub>·nH<sub>2</sub>O  
CAS N: 12069-68-0  
EEC N: 235-112-0



R: 22-40-42/43  
S: 22-36/37

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W  
X  
Y  
Z

**Cobalt (II) carbonate basic - Analytical Grade**



**RPE-For analysis**

<b>Assay (complexometric) 48.0 + 53.0 %</b>	Description Violet crystalline powder	Ammonium <=500 ppm
Chloride <=40 ppm	HCl-insoluble matter <=100 ppm	Nitrate <=100 ppm
Subst. not ppt. (NH4)2S <=0.3 %	Sulphate <=50 ppm	Cu <=50 ppm
Fe <=50 ppm	Na <=0.4 %	Ni <=0.2 %
Pb <=20 ppm	Zn <=50 ppm	

Code	Size	Packaging
439254	g 100	Glass jar
439256	g 500	Plastic jar

**Cobalt (II) chloride**

Cobalto cloruro oso - Cobalt II chlorure - Cobalto cloruro oso

**CoCl<sub>2</sub>·H<sub>2</sub>O**  
Atomic weight: 237,93  
CAS N: 7791-13-1  
EEC N: 231-589-4

**Transport classification**  
ONU n. 3077  
Transport class: 9  
Packaging group: III

R: 49-22-42/43-50/53  
S: 22-53-45-60-61

**Cobalt (II) chloride - Analytical Grade**



**RPE-ACS-for analysis-Reag. Ph.Eur.-Reag. USP**

<b>Assay (complexometric) 98.0 + 102.0 %</b>	Description Red-violet crystals	Water-insoluble matter <= 100 ppm
Nitrate <= 100 ppm	Sulphate <= 100 ppm	Ca <= 50 ppm
Cu <= 20 ppm	Fe <= 50 ppm	K <= 100 ppm
Mg <= 50 ppm	Na <= 500 ppm	Ni <= 0.1 %
Zn <= 300 ppm		

Code	Size	Packaging
439355	g 250	Plastic jar
439357	g 1000	Jar
439353	kg 25	Fibre drum

**Cobalt (II) nitrate**

Cobalto nitrato oso - Cobalt II nitrate - Cobalto nitrato oso

**Co(NO<sub>3</sub>)<sub>2</sub>·H<sub>2</sub>O**  
Atomic weight: 291,04  
CAS N: 10026-22-9  
EEC N: 233-402-1

**Transport classification**  
ONU n. 1477  
Transport class: 5.1  
Packaging group: II

R: 21/22-40-42/43  
S: 22-36/37

**Cobalt (II) nitrate - Analytical Grade**



**RPE-For analysis-Reag. Ph.Eur.-Reag. USP**

<b>Assay (complexometric) 98.0 + 102.0 %</b>	Description Red brick crystals	Water-insoluble matter <= 100 ppm
Chloride <= 20 ppm	Sulphate <= 50 ppm	Ca <= 50 ppm
Cu <= 20 ppm	Fe <= 10 ppm	K <= 100 ppm
Mg <= 50 ppm	Na <= 500 ppm	Ni <= 0.15 %
Pb <= 20 ppm	Zn <= 100 ppm	

Code	Size	Packaging
439455	g 250	Plastic jar
439457	g 1000	Plastic jar

**Cobalt (II) nitrate (max. 0.001% Ni)**

Cobalto nitrato oso (max. 0.001% Ni) - Cobalt II nitrate (max. 0.001% Ni) - Cobalto nitrato oso (max. 0.001% Ni)

**Co(NO<sub>3</sub>)<sub>2</sub>·H<sub>2</sub>O**  
Atomic weight: 291,04  
CAS N: 10026-22-9  
EEC N: 233-402-1

**Transport classification**  
ONU n. 1477  
Transport class: 5.1  
Packaging group: II

R: 21/22-40-42/43  
S: 22-36/37

**Cobalt (II) nitrate (max. 0.001% Ni) - Special Grade**



**RS-ACS-for enviromental analysis**

<b>Assay (complexometric) 98.0 + 102.0 %</b>	Description Red crystals	Water-insoluble matter <=100 ppm
Ammonium <=0.2 %	Chloride <=20 ppm	Sulphate <=50 ppm
Ca <=50 ppm	Cu <=20 ppm	Fe <=10 ppm
K <=100 ppm	Mg <=50 ppm	Na <=500 ppm
Ni <=10 ppm	Pb <=20 ppm	Zn <=100 ppm

Code	Size	Packaging
439504	g 100	Glass jar

**Cobalt (II) sulphate**

Cobalto solfato oso - Cobalt II sulfate - Cobalto solfato oso

**CoSO<sub>4</sub>·H<sub>2</sub>O**  
Atomic weight: 281,10  
CAS N: 10026-24-1  
EEC N: 233-334-2

**Transport classification**  
ONU n. 3077  
Transport class: 9  
Packaging group: III

R: 49-22-42/43-50/53  
S: 22-53-45-60-61

**Cobalt (II) sulphate - Analytical Grade**

## Cobalt (II) sulphate - Analytical Grade



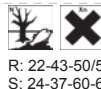
## RPE-For analysis

Assay (complexometric) >=99 %	Description Red crystals	pH sol. 5% at 25° C 3.5 + 4.5
Ammonium <=100 ppm	Chloride <=20 ppm	Water-insoluble matter <=30 ppm
Nitrate <=50 ppm	Subst. not ppt. (NH4)2S <=0.1 %	Cu <=10 ppm
Fe <=10 ppm	Ni <=500 ppm	Pb <=10 ppm
Zn <=20 ppm		

Code	Size	Packaging
439705	g 250	Plastic jar

## Cobalt (II,III) oxide

Cobalto ossido nero - Cobalt oxyde noir - Cobalto óxido negro

Co<sub>3</sub>O<sub>4</sub>Atomic weight: 240,82  
CAS N: 1308-06-1  
EEC N: 215-157-2Transport classification  
ONU n. 3077  
Transport class: 9  
Packaging group: III

## Cobalt (II,III) oxide - Analytical Grade



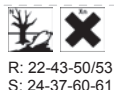
## RPE-For analysis

Assay (complexometric) 71.0 + 72.0 % Co	Description Black powder	Cu <= 20 ppm
Ni <= 0.1 %	Zn <= 100 ppm	Mn <= 0.05 %
Na <= 1.0 %	Ca <= 0.05 %	Fe <= 0.05 %
S <= 0.06 %	Mg <= 0.05 %	

Code	Size	Packaging
439603	g 50	Glass jar
439601	g 500	Glass jar

## Cobalt (II,III) oxide granules

Cobalto ossido granulare - Cobalt oxyde granules - Cobalto(II,III) Oxido en gránulos

Co<sub>3</sub>O<sub>4</sub>Atomic weight: 240,82  
CAS N: 1308-06-1  
EEC N: 215-157-2Transport classification  
ONU n. 3077  
Transport class: 9  
Packaging group: III

## Cobalt (II,III) oxide granules - Special Grade

## RS-For microanalysis



Description Granuli neri Diameter 0.4 - 2 mm

Code	Size	Packaging
439653	g 50	Glass jar

## Collodion 5%

Collodio 5% - Collodion 5% - Colodion 0,05

Transport classification  
ONU n. 1263  
Transport class: 3  
Packaging group: I

## Collodion 5% - Technical Grade

## RE-Pure

Assay (gravimetric) >=5 % Description Yellowish liquid Density at 20° C ~ 0.778  
Acidity (H2SO4) <=3 ppm

Code	Size	Packaging
336101	ml 1000	Glass bottle
336103	kg 20	Metal drum

## Column SPE

Colonna SPE - Colonne SPE - Columna SPE

## Column SPE - Special Grade

## Column SPE - Special Grade

## RS-For chromatographic separations

sds

Code	Size	Packaging
PCEC08153	500 mg / 3 ml	50 pcs
PCEC08156	500 mg / 6 ml	50 pcs
PCEC081M6	1000 mg / 6 ml	30 pcs
PCEC18111	100 mg / 1 ml	100 pcs
PCEC18113	100 mg / 3 ml	50 pcs
PCEC1812M6	2000 mg / 6 ml	20 pcs
PCSDAU503	50 pcs	50 pcs
PCUALN123	200 mg / 3 ml	50 pcs
PCUALN12M6	2000 mg / 6 ml	30 pcs
PCUBCX123	200 mg / 3 ml	50 pcs
PCUCARB56	500 mg / 6 ml	30 pcs
PCUFLS153	500 mg / 3 ml	50 pcs
PCUFLS15M25	5000 mg / 25 ml	20 pcs
PCUNAX156	500 mg / 6 ml	50 pcs
PCUQAX153	500 mg / 3 ml	50 pcs
PCUSIL120M75	20 g / 75 ml	10 pcs
PCUSIL12M15	2000 mg / 15 ml	20 pcs
PCUSIL156	500 mg / 6 ml	50 pcs
PCUSIL15M25	5000 mg / 25 ml	20 pcs
PCUSSFL2M6G	2000 mg chaque / 6 ml	

## Congo red

Rosso Congo - Rouge Congo - Rojo Congo

**C<sub>22</sub>H<sub>12</sub>Na<sub>2</sub>O<sub>6</sub>S<sub>2</sub>**  
 Atomic weight: 696,68  
 CAS N: 573-58-0  
 EEC N: 209-358-4



R: 45-63  
 S: 53-45

## Congo red - Analytical Grade

## RPE-For analysis-C.I. 22120

CARLO ERBA  
Quality since 1928

Description Red brown powder Colour change blue red pH range 3.0 - 5.2

Code	Size	Packaging
476762	g 25	Glass jar

Stain for Microscopy (hystology) Indicator (pH 3,0+5,2).

For further information on above products, see following product/application section(s)  
 Microscopy (p. 58)

## Coomassie brilliant blue R 250

Blu Coomassie R250 - Bleu de Coomassie brillant R 250 - Azul Coomassie R 250

**C<sub>25</sub>H<sub>14</sub>Na<sub>2</sub>O<sub>7</sub>S<sub>2</sub>**  
 Atomic weight: 825,99  
 CAS N: 6104-59-2  
 EEC N: 228-060-5



R: 20/21/22

## Coomassie brilliant blue R 250 - Special Grade

## RS-For microscopy-C.I. 42660

CARLO ERBA  
Quality since 1928

Description Dark violet powder E (1%/1cm lambda max) >= 700

Code	Size	Packaging
428642	g 25	Glass jar

Stain for hystochemistry.

For further information on above products, see following product/application section(s)  
 Microscopy (p. 58)

## Copper electrolytic rebaked sheet

Rame elettrolitico lastra ricotta - Cuivre électrolytique recuit en feuilles - Cobre electrolítico recocado hojas

**Cu**  
 Atomic weight: 63,54  
 CAS N: 7440-50-8  
 EEC N: 231-159-6

## Copper electrolytic rebaked sheet - Analytical Grade

## RPE-For analysis

CARLO ERBA  
Quality since 1928

Assay >=99.8 % Description Metallic sheet

Code	Size	Packaging
475215	g 250	Bottle

(Thickness ~mm 0,15).

## Copper electrolytic turnings

Rame elettrolitico tornitura - Cuivre électrolytique en tournures - Cobre electrolítico virutas

**Cu**  
Atomic weight: 63,54  
CAS N: 7440-50-8  
EEC N: 231-159-6

## Copper electrolytic turnings - Analytical Grade

## RPE-For analysis



Assay >=99 %		Description Trucioli metallici
Code	Size	Packaging
475305	g 250	Plastic jar
475307	g 1000	Plastic jar

## Copper electrolytic wire

Rame elettrolitico filo - Cuivre électrolytique en fils - Cobre electrolítico hilos

**Cu**  
Atomic weight: 63,54  
CAS N: 7440-50-8  
EEC N: 231-159-6

## Copper electrolytic wire - Analytical Grade

## RPE-For analysis



Assay >=99.9 %		Description Wire	HNO3-insoluble matter <=300 ppm
Sn + Sb <=200 ppm		Ag <=100 ppm	As <=5 ppm
Fe <=50 ppm		Mn <=10 ppm	P <=10 ppm
Pb <=200 ppm			
Code	Size	Packaging	
475185	g 250	Bottle	
475187	g 1000	Bottle	

(Diameter ~mm 1).

## Copper reduced powder

Rame ridotto polvere - Cuivre réduit en poudre - Cobre reducido polvo

**Cu**  
Atomic weight: 63,54  
CAS N: 7440-50-8  
EEC N: 231-159-6

## Copper reduced powder - Analytical Grade

## RPE-For analysis



Assay >= 98.5 % (Cu)		Description Red-brown metallic powder
Code	Size	Packaging
475334	g 100	Glass jar
475337	g 1000	Glass jar

## Copper

Rame - Cuivre - Cobre

## Transport classification

ONU n. 3264  
Transport class: 8  
Packaging group: II  
Packaging group: III



R: 34  
S: 26-36/37/39-45

## Copper - Special Grade

## RS-NORMEX-concentrated solution for AAS



Description Green clear liquid		Titration factor 0.995 + 1.005	
Code	Size	Packaging	Notes
475151	Ampoule	Plastic vial	conc. 1.000 ppm

Concentrated volumetric solution to prepare 1 l of solution 1 mg/ml

For further information on above products, see following product/application section(s)  
Trace metal analysis (p. 86)

## RS-Quality control standard solution for AAS (graphite furnace)



Code	Size	Packaging	Notes
504361	ml 50	Glass bottle	Matrice: Nitric acid 2%, conc. 0,020 mg/l

For further information on above products, see following product/application section(s)  
Trace metal analysis (p. 86)

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O  
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Q  
R  
S  
T  
U  
V  
W  
X  
Y  
Z

Copper - Special Grade

RS-Standard solution for AAS



Description Clear blue liquid		Titration factor 0.998 + 1.002	
Code	Size	Packaging	Notes
497615	ml 100	Glass bottle	conc. 1.000 ppm
497611	ml 500	Plastic bottle	conc. 1.000 ppm

Ready-to-use solution: concentration 1 mg/ml

RS-Standard solution for ICP



Code	Size	Packaging	Notes
503541	ml 100	Plastic bottle	Matrice: Nitric acid, conc. 1.000 ppm
503545	ml 100	Plastic bottle	Matrice: Nitric acid, conc. 10.000 ppm
503543	ml 500	Plastic bottle	Matrice: Nitric acid, conc. 1.000 ppm
503547	ml 500	Plastic bottle	Matrice: Nitric acid, conc. 10.000 ppm

Provided with real batch certificate. Verified against NIST Standard Reference

For further information on above products, see following product/application section(s)  
Trace metal analysis (p. 86)

RS-Standard solution for ICP-MS



Code	Size	Packaging	Notes
505576	ml 50	Plastic bottle	Matrice: Nitric acid, conc. 10 ppm
505577	ml 100	Plastic bottle	Matrice: Nitric acid, conc. 10 ppm
505578	ml 100	Plastic bottle	Matrice: Nitric acid, conc. 100 ppm

For further information on above products, see following product/application section(s)  
Trace metal analysis (p. 86)

Copper (I) chloride

Rame cloruro oso - Cuivre (-eux) chlorure - Cobre cloruro oso

CuCl

Atomic weight: 98,993  
CAS N: 7758-89-6  
ECC N: 231-842-9

Transport classification  
ONU n. 2802  
Transport class: 8  
Packaging group: III



R: 22-50/53  
S: 22-60-61

Copper (I) chloride - Analytical Grade

RPE-For analysis



Assay (oxidimetric) >= 90.0 %	Description White-greenish powder	HCl-insoluble matter <= 0.02 %
Substances not ppt. H <sub>2</sub> S <= 2 %	Sulphate <= 0.1 %	As <= 10 ppm
Fe <= 0.02 %		

Code	Size	Packaging
475605	g 250	Plastic jar
475607	g 1000	Plastic jar
475601	g 5000	Plastic jar
475603	kg 25	Fibre drum

Copper (I) chloride solution 7% in ammonia

CuCl

Atomic weight: 98,993  
CAS N: 7758-89-6  
ECC N: 231-842-9



R: 22-36/37/38  
S: 7-26-61

Copper (I) chloride solution 7% in ammonia - Special Grade

RS-For gas analysis according to Orsat



Assay 6.5 + 7.5 %	Description Blue liquid	Density at 20° C ~ 1.08
Code	Size	Packaging
475632	ml 1000	Bottle

Stabilized with electrolytic copper.

Copper (I) iodide

Rame ioduro oso - Cuivre (-eux) iodure - Cobre (I)-ioduro

CuI

Atomic weight: 190,44  
CAS N: 7681-65-4  
ECC N: 231-674-6

Transport classification  
ONU n. 3077  
Transport class: 9  
Packaging group: III



R: 22-37-41-50/53  
S: 22-26-39-60-61

Copper (I) iodide - Technical Grade

RE-Pure



Assay (oxidimetric) >=98 %	Description Polvere nocciola ammass.	
Code	Size	Packaging
364611	kg 25	Carton drum



## Copper (I) iodide - Technical Grade

## RE-Puro for fibers-ERBATECH



Assay (oxidimetric) $\geq 98$ %	Description Polvere nocciola	Chloride $\leq 0.05$ %
Sulphate $\leq 0.05$ %	Cd $\leq 50$ ppm	Fe $\leq 50$ ppm
K $\leq 0.05$ %	Ni $\leq 50$ ppm	Pb $\leq 100$ ppm
Zn $\leq 50$ ppm		

Code	Size	Packaging
364637	g 1000	Plastic jar
364631	kg 25	Carton drum

## Copper (I) oxide

Rame ossido oso - Cuivre (-eux) oxyde - Cobre óxido oso

**Cu<sub>2</sub>O**Atomic weight: 143,13  
CAS N: 1317-39-1  
EEC N: 215-270-7R: 22  
S: 22

## Copper (I) oxide - Technical Grade

## RE-Pure



Assay (oxidimetric) $\geq 85.0$ %	Description Red brick powder	Chloride $\leq 0.4$ %
Sulphate $\leq 0.1$ %	Co $\leq 0.5$ %	Fe $\leq 0.5$ %
Ni $\leq 0.5$ %	Zn $\leq 0.5$ %	

Code	Size	Packaging
475835	g 250	Plastic jar
475833	kg 25	Fibre drum

## Copper (II) acetate

Rame acetato ico - Cuivre (-ique) acétate - Cobre acetato ico

**Cu(CH<sub>3</sub>COO)<sub>2</sub>·H<sub>2</sub>O**Atomic weight: 199,65  
CAS N: 6046-93-1  
EEC N: 205-553-3R: 22  
S: 22

## Copper (II) acetate - Analytical Grade

## RPE-ACS-for analysis-Reag. Ph.Eur.-Reag. USP



Assay (oxidimetric) <b>98.0+102.0</b> %	Description Green-azure crystalline powder	Chloride $\leq 30$ ppm
Water-insoluble matter $\leq 100$ ppm	Sulphate $\leq 100$ ppm	Ca $\leq 50$ ppm
Fe $\leq 20$ ppm	K $\leq 100$ ppm	Ni $\leq 100$ ppm
Na $\leq 500$ ppm		

Code	Size	Packaging
475405	g 250	Plastic jar
475407	g 1000	Plastic jar

## Copper (II) acetate hydrate

Rame acetato ico idrato - Cuivre (cuivrique) acetate hydrate - Cobre(II) Acetato hidratato

**Cu(CH<sub>3</sub>COO)<sub>2</sub>·nH<sub>2</sub>O**Atomic weight: 181,63 (ANIDRO)  
CAS N: 66923-66-8  
EEC N: 205-553-3R: 22  
S: 22

## Copper (II) acetate hydrate - Technical Grade

## RE-Pure



Assay (oxidimetric) $\geq 28$ % (Cu)	Description Green azure crystals	Chloride $\leq 500$ ppm
Insoluble in Acetic ac. $\leq 1$ %	Sulphate $\leq 5$ %	Fe $\leq 0.2$ %

Code	Size	Packaging
364007	g 1000	Plastic jar

## Copper (II) ammonium chloride

Rame ammonio cloruro ico - Cuivre (-ique) ammonium chlorure - Cobre y amonio cloruro ico

**CuCl<sub>2</sub>·2NH<sub>4</sub>Cl·2H<sub>2</sub>O**Atomic weight: 277,460  
CAS N: 65722-60-3  
EEC N: 239-690-5R: 22  
S: 22

## Copper (II) ammonium chloride - Analytical Grade

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Y  
Z

**Copper (II) ammonium chloride - Analytical Grade**



**RPE-For analysis**

<b>Assay (oxidimetric) &gt;=99 %</b>	Description Azure crystals	pH sol. 5% at 25° C 2.0 + 4.0
Substances not ppt. H <sub>2</sub> S <=0.1 %	Water-insoluble matter <=30 ppm	Nitrate <=30 ppm
Sulphate <=50 ppm	As <=1 ppm	Ba <=50 ppm
Fe <=20 ppm	Ni <=10 ppm	Pb <=40 ppm
Zn <=20 ppm		

Code	Size	Packaging
475455	g 250	Glass jar
475457	g 1000	Glass jar

**Copper (II) carbonate (basic)**

Rame carbonato basico ico - Cuivre (-ique) carbonate basique - Cobre carbonato básico ico

**CuCO<sub>3</sub>•Cu(OH)<sub>2</sub>•nH<sub>2</sub>O**  
Atomic weight: 221,11 (ANHYDR.)  
CAS N: 12069-69-1  
EEC N: 235-113-6



R: 22  
S: 22

**Copper (II) carbonate (basic) - Analytical Grade**



**RPE-For analysis**

<b>Assay (oxidimetric) 53 + 57 % (Cu)</b>	Description Green azure powder	Fe <= 300 ppm
Pb <= 100 ppm	Cd <= 10 ppm	Chlorine <= 250 ppm
Specific gravity 0.8 + 1.05 g/cm <sup>3</sup>	Acidity solubility complete	

Code	Size	Packaging
475555	g 250	Plastic jar
475557	g 1000	Plastic jar
475553	kg 25	Carton drum

**Copper (II) chloride**

Rame cloruro ico - Cuivre (-ique) chlorure - Cobre cloruro ico

**CuCl<sub>2</sub>•2H<sub>2</sub>O**  
Atomic weight: 170,47  
CAS N: 10125-13-0  
EEC N: 231-210-2

**Transport classification**  
ONU n. 2802  
Transport class: 8  
Packaging group: III



R: 25  
S: 24/25-45

**Copper (II) chloride - Analytical Grade**



**RPE-For analysis**

<b>Assay (complexometric) &gt;= 99 %</b>	Description Green - azure crystals	pH sol. 5% at 20°C 3.0 + 3.8
Total nitrogen <= 40 ppm	Ca <= 20 ppm	K <= 20 ppm
Mg <= 20 ppm	Na <= 20 ppm	Sulphate <= 50 ppm
As <= 1 ppm	Fe <= 10 ppm	Ni <= 50 ppm
Pb <= 40 ppm		

Code	Size	Packaging
475685	g 250	Plastic jar
475687	g 1000	Plastic jar
475684	kg 50	Fibre drum

**Copper (II) chloride - Technical Grade**



**PS-Pure-for synthesis**

Code	Size	Packaging
P7840044	kg 25	Fibre drum

**RE-Pure**



<b>Assay as Cu &gt;= 36.4 %</b>	<b>Assay &gt;= 99 %</b>	Description Blue crystals
pH sol. 5% at 20°C 3 + 3.8	Sulphate <= 50 ppm	Nitrogen compounds (N) <= 0.004 %
As <= 1 ppm	Ca <= 20 ppm	Loss on drying <= 4 %
Fe <= 10 ppm	Nitrate <= 0.5 %	K <= 20 ppm
Water-insoluble matter <= 0.05 %	Mg <= 20 ppm	Zn <= 0.05 %
Ni <= 50 ppm	Solubility Conform	Pb <= 40 ppm

Code	Size	Packaging
364507	g 1000	Plastic jar
364503	kg 50	Carton drum

**Copper (II) nitrate**

Rame nitrato ico - Cuivre (-ique) nitrate - Cobre nitrato ico

**Cu(NO<sub>3</sub>)<sub>2</sub>•3H<sub>2</sub>O**  
Atomic weight: 241,60  
CAS N: 10031-43-3  
EEC N: 221-838-5

**Transport classification**  
ONU n. 1477  
Transport class: 5.1  
Packaging group: II  
Packaging group: III



R: 8-22  
S: 17-22

**Copper (II) nitrate - Analytical Grade**

## Copper (II) nitrate - Analytical Grade



## RPE-For analysis

Assay (oxidimetric) >=99.5 %	Description Blue crystals	pH sol. 5% at 25° C 3.0 + 4.0
Ammonium <=10 ppm	Chloride <=10 ppm	Water-insoluble matter <=30 ppm
Substances not ppt. H2S <=500 ppm	Subst. ppt. by (NH4)2S <=50 ppm	Sulphate <=25 ppm
As <=1 ppm	Ba <=50 ppm	Fe <=20 ppm
Ni <=10 ppm	Pb <=10 ppm	Zn <=10 ppm

Code	Size	Packaging
475786	g 500	Plastic jar
475784	g 2500	Plastic jar
475781	kg 50	Fibre drum

## Copper (II) nitrate - Technical Grade



## PS-Pure-for synthesis

Code	Size	Packaging
P8540044	kg 25	Fibre drum

## Copper (II) oxide granular

Rame ossido ico granulare - Cuivre (-ique) oxyde en granulés - Cobre óxido ico granulado

## CuO

Atomic weight: 79,539  
CAS N: 1317-38-0  
EEC N: 215-269-1



R: 22  
S: 22

## Copper (II) oxide granular - Analytical Grade



## RPE-For analysis

Assay (iodometric) >= 99 %	Description Black powder	Free alkalis Conform
Chloride <= 50 ppm	HNO3-insoluble matter <= 0.02 %	Substances not ppt. H2S <= 0.2 %
Nitrogen compounds (N) <= 0.002 %	Zolfo totale (SO4) <= 0.01 %	C <= 500 ppm
Fe <= 500 ppm		

Code	Size	Packaging
475994	g 100	Glass jar

## Copper (II) oxide wire

Rame ossido filo - Cuivre (-ique) oxyde en fils - Cobre óxido ico hilos

## CuO

Atomic weight: 79,539  
CAS N: 1317-38-0  
EEC N: 215-269-1



R: 22  
S: 22

## Copper (II) oxide wire - Special Grade



## RS-ACS-for microanalysis

Description Grey wire	Nitrogen compounds (N) <=20 ppm	Carbon compounds <=20 ppm
Sulphur compounds <=120 ppm		

Code	Size	Packaging
475966	g 500	Plastic jar

## Copper (II) pyrophosphate

Rame pirofosfato - Cuivre pyrophosphate - Cobre pirofosfato

Cu<sub>2</sub>P<sub>2</sub>O<sub>7</sub>·nH<sub>2</sub>O

Atomic weight: 237,48 (ANHYDR.)  
CAS N: 15191-80-7  
EEC N: 239-250-2



R: 22  
S: 22

## Copper (II) pyrophosphate - Technical Grade



## RE-Pure

Assay (ex Cu) 33 + 37 %	Assay (P2O5) 36 + 40 %	Description Polvere granul. azzurra
-------------------------	------------------------	-------------------------------------

Code	Size	Packaging
364621	g 1000	Plastic jar
364623	kg 25	Fibre drum

For galvanic

## Copper (II) sulphate

Rame solfato ico - Cuivre (-ique) sulfate - Cobre (II) sulfato ico

CuSO<sub>4</sub>·5H<sub>2</sub>O

Atomic weight: 249,68  
CAS N: 7758-99-8  
EEC N: 231-847-6

Transport classification  
ONU n. 3077  
Transport class: 9  
Packaging group: III



R: 22-36/38-50/53  
S: 22-60-61

## Copper (II) sulphate - Analytical Grade

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
M  
N  
O  
P  
Q  
R  
S  
T  
U  
V  
W  
X  
Y  
Z

**Copper (II) sulphate - Analytical Grade**

**RPE-ACS-for analysis**



Assay (oxidimetric) 98.0 + 102.0 %	Description Blue crystals	Total nitrogen <=20 ppm
Chloride <=10 ppm	H2SO4-insoluble matter <=50 ppm	Ca <=50 ppm
Fe <=30 ppm	K <=100 ppm	Na <=200 ppm
Ni <=50 ppm		

Code	Size	Packaging
476097	g 1000	Plastic jar
476099	g 5000	Plastic jar
476094	kg 50	Carton drum

**Copper (II) sulphate - Special Grade**

**RS-For microanalysis**



Assay (iodometric) 98.0 + 102.0 %	Description Blue crystals	Not soluble matter <= 0.005 %
Nitrogen compounds (N) <= 0.002 %		

Code	Size	Packaging
476154	g 100	Glass jar

**Copper (II) sulphate - Pharmaceutical Grade**

**RPH-According to pharmacopoeia: Ph.Eur.-USP-FU-BP**



Assay (oxidimetric) 99.0 + 100.5 %	Description Blue crystalline powder	Appearance of solution Conform Ph.Eur.
Organic volatile impurities Conform USP-NF	Loss on drying 35.0 + 36.5 %	Chloride <=100 ppm
Ca <=50 ppm	Fe <=30 ppm	K <=100 ppm
Na <=200 ppm	Ni <=50 ppm	Pb <=50 ppm
Origin (BSE/TSE) Synthesis	Residual solvents (CPMP/ICH/283/95) Conform	

Code	Size	Packaging
364757	g 1000	Plastic jar
364759	g 5000	Plastic jar
364754	kg 50	Sack

**Copper (II) sulphate - Technical Grade**

**PS-Pure-for synthesis**



Assay >= 98.5 %	Iron (Fe) <= 120 mg/Kg	Nickel (Ni) <= 100 mg/kg
Cadmium (Cd) <= 5 mg/Kg	Lead (Pb) <= 50 mg/Kg	Zinc (Zn) <= 145 mg/Kg
Insoluble matter <= 0.01 %	Copper (Cu) >= 25.1 %	Cobalt (Co) <= 1 mg/Kg
Arsenic (As) <= 5 mg/Kg	Chloride (Cl-) <= 100 mg/Kg	Antimony (sb) <= 1 mg/Kg
Mercury (Hg) <= 1 mg/Kg		

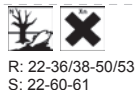
Code	Size	Packaging
P7960544	kg 25	Fibre drum

**Copper (II) sulphate anhydrous**

Rame solfato ico anidro - Cuivre (-ique) sulfate anhydre - Cobre (II) sulfato ico anhidro

**CuSO<sub>4</sub>**  
Atomic weight: 159,60  
CAS N: 7758-98-7  
EEC N: 231-847-6

**Transport classification**  
ONU n. 3077  
Transport class: 9  
Packaging group: III



**Copper (II) sulphate anhydrous - Analytical Grade**

**RPE-For analysis**



Assay (oxidimetric) 99 + 100.5 % (s.s.)	Description Greyish powder	Loss on drying <=1 %
Chloride <=100 ppm	Dil. H2SO4-ins. matter <=50 ppm	Ca <=50 ppm
Fe <=30 ppm	K <=100 ppm	Mg <=100 ppm
Na <=200 ppm	Ni <=50 ppm	Pb <=80 ppm

Code	Size	Packaging
476245	g 250	Plastic jar
476247	g 1000	Plastic jar
476243	kg 25	Carton drum

For further information on above products, see following product/application section(s)  
Adsorbants (p. 22)

**Copper (II) sulphate anhydrous - Technical Grade**

**RE-Pure**



Assay (oxidimetric) >=97 %	Description Grey powder	Fe <=0.1 %
Water-insoluble matter <=0.1 %		

Code	Size	Packaging
365006	g 500	Plastic jar
365004	kg 50	Carton drum

## Copper (II) sulphate solution 12.5% in water

Rame solfato ico soluzione 12,5% in acqua - Cuivre (-ique) sulfate en solution à 12,5% dans l'eau - Cobre (II) sulfato ico solución 12.5% en agua

CuSO<sub>4</sub>  
CAS N: 7758-98-7  
EEC N: 231-847-6

## Copper (II) sulphate solution 12.5% in water - Analytical Grade

## RPE-For analysis

CARLO ERBA  
Quality since 1884

Assay (oxidimetric) 12.0 ± 13.0 % Description Clear blue liquid Density at 20° C ~ 1.08

Code	Size	Packaging
476211	ml 1000	Bottle

## Coumarin

Cumarina - Coumarine - Cumarina

C<sub>9</sub>H<sub>6</sub>O<sub>2</sub>  
Atomic weight: 146,140  
CAS N: 91-64-5  
EEC N: 202-086-7R: 20/22  
S: 7

## Coumarin - Analytical Grade

## RPE-For analysis

CARLO ERBA  
Quality since 1884

Assay (GLC) &gt;= 99.0 % Description White crystals Melting point 67.0 ± 71.0 °C

Code	Size	Packaging
441003	g 50	Glass jar

## Creatinine

Creatinina - Créatinine - Creatinina

CH<sub>4</sub>NC<sub>3</sub>H<sub>7</sub>NHCOCH<sub>3</sub>  
Atomic weight: 113,120  
CAS N: 60-27-5  
EEC N: 200-466-7

## Creatinine - Analytical Grade

## RPE-For analysis

CARLO ERBA  
Quality since 1884

Assay 99.0 ± 101.0 % s.s. Description White crystalline powder Loss on drying <= 0.5 %  
 pH solution 5% 8 ÷ 9 Chloride <= 100 ppm Sulphate <= 200 ppm  
 Heavy metals (Pb) <= 20 ppm Residue on ignition <= 0.1 % Appearance of solution Conform  
 Creatine (TLC) <= 0.2 %

Code	Size	Packaging
440332	g 25	Glass jar

For biochemistry

## o-Cresol

o-Cresolo - o-Crésol - o-Cresol

CH<sub>3</sub>C<sub>6</sub>H<sub>4</sub>OH  
Atomic weight: 108,000  
CAS N: 95-48-7  
EEC N: 202-423-8

Transport classification  
 ONU n. 3455  
 Transport class: 6.1  
 Secondary risk: 8  
 Packaging group: II

R: 24/25-34  
S: 36/37/39-45

## o-Cresol - Technical Grade

## RE-Pure

CARLO ERBA  
Quality since 1884

Assay (GLC) >= 98 % Description Yellow-brown solid Density at 20°C ~ 1.046  
 Boiling point 189.5 ± 192.5 °C Melting point 29 ± 31 °C Water (K.F.) <= 0.3 %  
 Residue on ignition <= 0.1 %

Code	Size	Packaging
440385	g 250	Glass bottle
440387	g 1000	Plastic bottle
440381	g 2500	Glass bottle

## m-Cresol

m-Cresolo - m-Crésol - m-Cresol

CH<sub>3</sub>C<sub>6</sub>H<sub>4</sub>OH  
Atomic weight: 108,000  
CAS N: 108-39-4  
EEC N: 203-577-9

Transport classification  
 ONU n. 2076  
 Transport class: 6.1  
 Secondary risk: 8  
 Packaging group: II

R: 24/25-34  
S: 36/37/39-45

## m-Cresol - Technical Grade

## m-Cresol - Technical Grade

## RE-Pure



Assay (GLC)  $\geq 99\%$  Description Reddish liquid Water (K.F.)  $\leq 0.05\%$   
 Boiling point  $\sim 202\text{ }^\circ\text{C}$  Melting point  $\sim 12\text{ }^\circ\text{C}$

Code	Size	Packaging
440435	g 250	Glass bottle
440437	g 1000	Glass bottle

## p-Cresol

*p-Cresolo - p-Crésol - p-Cresol*

**CH<sub>3</sub>C<sub>6</sub>H<sub>4</sub>OH**

Atomic weight: 108,000  
 CAS N: 106-44-5  
 EEC N: 203-398-6

## Transport classification

ONU n. 3455  
 Transport class: 6.1  
 Secondary risk: 8  
 Packaging group: II



R: 24/25-34  
 S: 36/37/39-45

## p-Cresol - Technical Grade

## RE-Pure



Assay (GLC)  $\geq 99.0\%$  Description Liquido o solido liev. giallognolo Melting point  $32 + 34\text{ }^\circ\text{C}$

Code	Size	Packaging
440475	g 250	Glass bottle
440477	g 1000	Glass bottle

## m-Cresol purple

*Porpora m-cresolo - Pourpre de m-cresol - Púrpura de m-cresol*

**C<sub>21</sub>H<sub>16</sub>O<sub>6</sub>S**

Atomic weight: 382,4  
 CAS N: 2303-01-7  
 EEC N: 218-960-6

## Transport classification

ONU n. 3143  
 Transport class: 6.1  
 Packaging group: III



R: 20/22  
 S: 22-24

## m-Cresol purple - Analytical Grade

## RPE-For analysis



Description Dark green powder Solubilità (0.1% in ETOH 50%) complete E (1%/1cm) a 578nm in tamp.  $\geq 900$   
 Colour change yellow - violet pH range 7.4 + 9.0

Code	Size	Packaging
470067	g 1	Glass bottle

Indicator according to Clarck (pH 0,5+2,4-7,6+9,2).

## Cresol red

*o-Cresolftaleina - o-Crésolphtaléine - o-Cresolftaleina*

**C<sub>22</sub>H<sub>16</sub>O<sub>4</sub>**

Atomic weight: 346,38  
 CAS N: 596-27-0  
 EEC N: 209-881-8

## Transport classification

ONU n. 3143  
 Transport class: 6.1  
 Packaging group: III

## Cresol red - Analytical Grade

## RPE-For analysis



Description White powder

Code	Size	Packaging
440341	g 25	Plastic jar

Stain for Microscopy.

## o-Cresol red

*Rosso o-cresolo - Rouge de o-crésol - Rojo de o-cresol*

**C<sub>21</sub>H<sub>16</sub>O<sub>6</sub>S**

Atomic weight: 382,44  
 CAS N: 1733-12-6  
 EEC N: 217-064-2



R: 20/21/22

## o-Cresol red - Analytical Grade

## RPE-For analysis



Description Red brown powder Alcohol-insolub. matter Conform Sensitivity(pH 7.2-8.8) Conform  
 Loss on drying (110°C)  $\leq 3.0\%$  Colour change yellow red

Code	Size	Packaging
476778	g 5	Glass jar

Indicator according to Clarck.

## o-Cresol Red solution 0.2% in ethanol

**C<sub>21</sub>H<sub>16</sub>O<sub>6</sub>S / C<sub>2</sub>H<sub>6</sub>OH**

Atomic weight: 382,440  
 CAS N: 1733-12-6  
 EEC N: 217-064-2

## Transport classification

ONU n. 1993  
 Transport class: 3  
 Packaging group: III

R: 10

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
M  
N  
O  
P  
Q  
R  
S  
T  
U  
V  
W  
X  
Y  
Z

## o-Cresol Red solution 0.2% in ethanol - Analytical Grade



## RPE-For analysis

Description Red liquid Sensitivity(pH 7.2-8.8) Conform Colour change Yellow-red violet

Code	Size	Packaging
476805	ml 250	Bottle

Indicator according to Clark (pH 0,2+1,8-7,0+8,8).

## Cresolphthalexone

Cresolphthalexone - Crésolphthalexone - Cresolphthalexona

C20H14O12Na2

Atomic weight: 680,62

CAS N: 94442-10-1

EEC N: 305-335-9

## Cresolphthalexone - Analytical Grade



## RPE-For analysis

Description Polvere bianco rosa Residue on ignition 20.0 + 22.0 %

Code	Size	Packaging
440351	g 1	Glass bottle

Complexometry indicator

For further information on above products, see following product/application section(s)

Indicators (p. 50)

## Crotonaldehyde

Crotonaldeide - Aldéhyde crotonique - Crotonaldehydo

CH3CH=CHCHO

Atomic weight: 70,09

CAS N: 123-73-9

EEC N: 204-647-1

Transport classification

ONU n. 1143

Transport class: 6.1

Secondary risk: 3

Packaging group: I



R: 11-24/25-26-37/38-41-48/22-50-

S: 26-28-36/37/39-45-61

## Crotonaldehyde - Analytical Grade



## RPE-For analysis

Assay (GLC) >=99 % Description Clear colourless liquid Density at 20° C 0.852 + 0.856  
Refractive index at 20° 1.4343 + 1.4403 Acidity (Crotonic acid) <=0.5 % Residue on ignition <=100 ppm

Code	Size	Packaging
415561	ml 100	Glass bottle

Stabilized with 0,01% of tert-butylcatechol

## α-trans-Crotonic acid

Acido alfa-trans-crotonico - Acide a-trans-crotonique - Acido a-trans-crotonico

CH3CH=CHCOOH

Atomic weight: 86,09

CAS N: 3724-65-0

EEC N: 223-077-4

Transport classification

ONU n. 2823

Transport class: 8

Packaging group: III

R: 34  
S: 26-45

## α-trans-Crotonic acid - Analytical Grade



## RPE-For analysis

Assay (acidimetric) 99 + 100 % Description xx.ni bianchi o giall Melting point 70.1 + 73.1 ° C  
Chloride <=10 ppm Heavy metals (Pb) <=20 ppm Residue on ignition <=100 ppm  
Sulphate <=50 ppm Fe <=10 ppm

Code	Size	Packaging
404923	g 50	Glass jar

## Crystal violet

Violetto cristalli - Violet cristallisé - Violeta cristal

C20H19O3N3

Atomic weight: 407,99

CAS N: 548-62-9

EEC N: 208-953-6

Transport classification

ONU n. 3077

Transport class: 9

Packaging group: III

R: 22-40-41-50/53  
S: 26-36/37/39-46-60-61

## Crystal violet - Analytical Grade



## RPE-For analysis-C.I. 42555

Description Dark green powder Suitability for anhydrous titration Conform Loss on drying <=9 %  
Alcohol-insolub. matter <=0.5 % Residue on ignition <=2.5 % Colour change yellow blue  
pH range 0.1 - 2.0

Code	Size	Packaging
491502	g 25	Glass jar

Stain for Microscopy (bacteriology-botany-hystology) Indicator (pH 0,1-2,0).

For further information on above products, see following product/application section(s)

Microscopy (p. 58)

## Crystal violet oxalate for Gram-Hucker Kit

 $C_{22}H_{22}N_2O_8 \cdot HCl / NH_4OCO-COONH_4$ 

R: 10

## Crystal violet oxalate for Gram-Hucker Kit - Special Grade

## RS-For microscopy

CARLO ERBA  
Quality since 1888

Description Violet clear liquid

Code	Size	Packaging
491561	ml 250	Plastic bottle

Stain for Bacteriology. According to Hucker. It contains ethanol.

For further information on above products, see following product/application section(s)

Microscopy (p. 58)

## Crystal Violet solution 0.5% in anhydrous acetic acid

 $CH_3COOH / C_{22}H_{22}N_2 \cdot HCl$ 

Atomic weight: 407,990

CAS N: 548-62-9

EEC N: 208-953-6

Transport classification

ONU n. 2920

Transport class: 8

Secondary risk: 3

Packaging group: II



R: 10-35

S: 23-26-45

## Crystal Violet solution 0.5% in anhydrous acetic acid - Analytical Grade

## RPE-For analysis

CARLO ERBA  
Quality since 1888

Description Violet clear liquid

Code	Size	Packaging
491551	ml 500	Bottle

## Cupferron

Cupferron - Cupferron - Cupferrón

 $CaH_2NaO_2$ 

Atomic weight: 155,150

CAS N: 135-20-6

EEC N: 205-183-2

Transport classification

ONU n. 2811

Transport class: 6.1

Packaging group: II



R: 25-40

S: 28-36/37-45

Synonyms  
Seld'ammonium de la N-nitrosoph

## Cupferron - Analytical Grade

## RPE-For analysis

CARLO ERBA  
Quality since 1888Assay  $\geq 98.0\%$ 

Description Yellowish powder or flakes

Melting point  $148 + 152\text{ }^\circ\text{C}$ Residue on ignition  $\leq 1.0\%$ 

Code	Size	Packaging
441052	g 25	Glass jar
441055	g 500	Bottle

Stabilized with ammonium carbonate. For iron analysis.

## Cupriethylenediamine solution

Cupriethylenediamina - Cupriéthylènediamine - Cuprietilendiamina

 $Cu(NH_2CH_2CH_2NH_2)_2(OH)_2$ 

Atomic weight: 157,550

CAS N: 13426-91-0

Transport classification

ONU n. 1761

Transport class: 8

Secondary risk: 6.1

Packaging group: II



R: 34-21/22

S: 36/37/39-45

## Cupriethylenediamine solution - Analytical Grade

## RPE-For analysis

CARLO ERBA  
Quality since 1888Assay (ex Cu)  $0.98 + 1.02\text{ M/l}$ 

Description Blue liquid

Code	Size	Packaging
441071	ml 1000	Bottle

Titrated solution for cellulose analysis

## Curcumin

Curcumina - Curcumine - Curcumina

 $C_{21}H_{20}O_5$ 

Atomic weight: 368,370

CAS N: 458-37-7

EEC N: 207-280-5

## Curcumin - Analytical Grade

## RPE-For analysis-C.I. 75300

CARLO ERBA  
Quality since 1888Titolo (U.V.)  $\geq 98\%$ 

Description Yellow orange powder

Code	Size	Packaging
441101	g 1	Glass bottle

Indicator (pH 7,4+8,6).



## Cyanide

Cianuri - Cyanure - Cianuri

## Cyanide - Special Grade

## RS-Standard solution for ion chromatography

CARLO ERBA  
Quality since 1824

Code	Size	Packaging	Notes
503358	ml 100	Plastic bottle	conc. 1.000 ppm

For further information on above products, see following product/application section(s)  
Chromatography (p. 34)

## Cyanoacetic acid

Acido cianacetico - Acide cyanoacétique - Acido cianacético

NCCH<sub>2</sub>COOH

Atomic weight: 85,060

CAS N: 372-09-8

EEC N: 206-743-9

R: 20/21/22  
S: 7/8-24/25

## Cyanoacetic acid - Technical Grade

## RE-Pure

CARLO ERBA  
Quality since 1824

Assay (acidimetric) 98 + 100 %	Description White crystals	Melting point 60.0 + 70. ° C
Loss on drying <=1 %	Residue on ignition <=0.1 %	

Code	Size	Packaging
403624	g 100	Glass jar

## Cyclohexane

Cicloesano - Cyclohexane - Ciclohexano

CH<sub>2</sub>(CH<sub>2</sub>)<sub>4</sub>CH<sub>2</sub>

Atomic weight: 84,163

CAS N: 110-82-7

EEC N: 203-806-2

## Transport classification

ONU n. 1145

Transport class: 3

Packaging group: II

R: 11-38-50/53-65-67  
S: 9-16-25-33-60-61-62Synonymes  
Hexahydrobenzène  
Hexaméthylène

## Cyclohexane - Analytical Grade

## PA-PUREX-for analysis

sds

Assay (GC) >= 99.8 %	Refractive index at 20°C 1.424 - 1.428	Water content (K.F.) <= 100 mg/Kg
Non volatile residue <= 10 mg/Kg	Colour <= 10 Hazen	Aromatic compounds <= 150 mg/Kg
Methylcyclohexane <= 1000 mg/Kg	Clear liquid appearance Conform	Identification (IR) Conform
Density d20/4 0.775 - 0.782	Total sulphur (S) <= 1 ppm	

Code	Size	Packaging
P0250529	ml 5000	Plastic drum
P0250540	l 10	Metal tank

## RPE-ACS-for analysis-Reag. Ph.Eur.-Reag. USP

CARLO ERBA  
Quality since 1824

Assay (GLC) >=99.5 %	Description Clear liquid	Colour (APHA) <=10
Identification (I.R.) Conform	Water solubility Conform	Ready carbonizable substances Conform
Alcohol miscibility complete	Diethyl ether miscib. complete	Density at 20° C 0.776 + 0.782
Refractive index at 20° 1.4229 + 1.4299	Boiling point 80.2 + 81.2 ° C	Melting point 5.5 + 7.5 ° C
Water (K.F.) <=100 ppm	Residue on evaporation <=10 ppm	Acidity (acetic acid) <=2 ppm
Benzene <=300 ppm	Subst. reducing KMnO <sub>4</sub> <=20 ppm(5m)	Total sulphur <=50 ppm

Code	Size	Packaging
436903	ml 1000	Glass bottle
436905	ml 2500	Glass bottle
436902	kg 21	Metal drum
436908	kg 150	Metal drum

## Cyclohexane - Special Grade

## RS-Anhydrous-for analysis

sds

Assay (GC) >= 99.8 %	Refractive index at 20°C 1.424 - 1.428	Water content (K.F.) <= 50 mg/Kg
Non volatile residue <= 10 mg/Kg	Colour <= 10 Hazen	Aromatic compounds <= 150 mg/Kg
Methylcyclohexane <= 1000 mg/Kg	Clear liquid appearance Conform	Identification (IR) Conform
Density d20/4 0.775 - 0.782	Total sulphur (S) <= 1 ppm	

Code	Size	Packaging
P0251016	ml 1000	Glass bottle

For further information on above products, see following product/application section(s)  
Anhydrous solvents (p. 27)

## Cyclohexane - Special Grade

## RS-For HPLC-Isocratic Grade



Assay (GC) >= 99.8 %	Refractive index at 20°C 1.424 - 1.428	Water content (K.F.) <= 100 mg/Kg
Colour <= 10 Hazen	UV transmittance at 210 nm >= 15 %	UV transmittance at 230 nm >= 75 %
UV transmittance at 250 nm >= 98 %	Aromatic compounds <= 5 mg/Kg	Non volatile residue <= 5 mg/Kg
Free acid (as HCl) <= 10 mg/Kg		

Code	Size	Packaging
P0253716	ml 1000	Glass bottle
P0253721	ml 2500	Glass bottle

For further information on above products, see following product/application section(s)  
Chromatography (p. 34)

## RS-For HPLC-Isocratic Grade



Assay (GLC) >=99.8 %	Description Clear colourless liquid	Density at 20° C 0.776 + 0.782
Refractive index at 20° 1.4229 + 1.4299	Boiling point 80.2 + 81.2 ° C	Water (K.F.) <=100 ppm
Residue on evaporation <=2 ppm	Acidity or alkalinity <=0.0002 meq/g	<b>U.V. Transmittance -</b>
at 200 nm >=10 %	at 210 nm >=20 %	at 220 nm >=50 %
at 230 nm >=80 %	at 240 nm >=92 %	at 260 nm >=99 %

Code	Size	Packaging
412431	ml 1000	Glass bottle

For further information on above products, see following product/application section(s)  
Chromatography (p. 34)

## RS-For optical spectroscopy



Assay (GLC) >=99.8 %	Description Clear liquid	Colour (APHA) <=10
Density at 20° C 0.776 + 0.782	Refractive index at 20° 1.4229 + 1.4299	Boiling point 80.2 + 81.2 ° C
Melting point 5.5 + 7.5 ° C	Acidity or alkalinity <=0.0002 meq/g	Water (K.F.) <=100 ppm
Residue on evaporation <=2 ppm	<b>Fluorescence -</b>	at 254 nm <=2 ppb
at 365 nm <=2 ppb	<b>U.V. Transmittance -</b>	at 200 nm >=50 %
at 210 nm >=63 %	at 220 nm >=79 %	at 230 nm >=96 %
at 240 nm >=99 %	at 250 nm >=99 %	

Code	Size	Packaging
436967	ml 1000	Glass bottle
436963	ml 2500	Glass bottle

Spectrophotometric analysis (1 cm - ref. Water)

For further information on above products, see following product/application section(s)  
Solvents for spectroscopy (p. 68)

## RS-For residual pesticides analysis



Assay (GLC) >=99.5 %	Description Clear liquid	Density at 20° C 0.775 + 0.781
Water (K.F.) <=200 ppm	Residue on evaporation <=2 ppm	GC-ECD (Lindano) <=5 ng/l
GC_NPD (Parathion) <=10 ng/l	GC-FID Conform	

Code	Size	Packaging
436981	ml 1000	Glass bottle
436982	ml 2500	Glass bottle

GC-ECD: < 5 pg/ml GC-NPD: <10 pg/ml.

For further information on above products, see following product/application section(s)  
Special products for environmental analysis (p. 81)

## RS-PESTIPUR-for pesticide analysis



Assay (GC) >= 99.8 %	Refractive index at 20°C 1.424 - 1.428	Water content (K.F.) <= 100 mg/Kg
Colour <= 10 Hazen	Non volatile residue <= 2 mg/Kg	GC-ECD.Individual peak (Lindane) <= 3 ng/l
Retention time trichlorobenzene to mirex -	GC-NPD.Individual peak (Ethylparathion) <= 3 ng/l	<b>Retention time Atrazin to Coumaphos -</b>

Code	Size	Packaging
P0252216	ml 1000	Glass bottle
P0252221	ml 2500	Glass bottle

## RS-PLUS-for residual pesticide analysis



Assay (GLC) >= 99.8 %	Description Clear colourless liquid	Colour <= 10 hazen
Water <= 100 ppm	Not volatile residue <= 5 ppm	GC-ECD (Lindano) <= 3 ng/l
GC-NPD (Ethylparation) <= 3 ng/l		

Code	Size	Packaging
436931	ml 1000	Glass bottle
436932	ml 2500	Glass bottle

For further information on above products, see following product/application section(s)  
Special products for environmental analysis (p. 81)

## Cyclohexane - Special Grade

## RS-SPECTROSOL-for optical spectroscopy

sds

Assay (GC) >= 99.9 %	Refractive index at 20°C 1.424 - 1.428	Water content (K.F.) <= 100 mg/Kg
Colour <= 10 Hazen	UV transmittance at 210 nm >= 15 %	UV transmittance at 220 nm >= 45 %
UV transmittance at 230 nm >= 75 %	UV transmittance at 250 nm >= 98 %	Aromatic compounds <= 5 mg/Kg
Non volatile residue <= 5 mg/Kg	Free acid (as HCl) <= 10 mg/Kg	

Code	Size	Packaging
P0252718	ml 500	Glass bottle
P0252716	ml 1000	Glass bottle
P0252721	ml 2500	Glass bottle

For further information on above products, see following product/application section(s)  
Solvents for spectroscopy (p. 68)

## Cyclohexane - Pharmaceutical Grade

## RPH-According to pharmacopoeia: Ph.Eur.

sds

Refractive index at 20°C 1.424 - 1.428	Density d20/20 0.775 - 0.785	Clear, colourless liq. appearance Conform
Water solubility Conform	Boiling point 80 - 81 °C	

Code	Size	Packaging
P0255048	l 25	Metal drum

## Cyclohexane - Technical Grade

## PS-Pure-for synthesis

sds

Assay (GC) >= 99.8 %	Refractive index at 20°C 1.424 - 1.428	Water content (K.F.) <= 150 mg/Kg
Non volatile residue <= 50 mg/Kg	Colour <= 10 Hazen	Clear liquid appearance Conform
Identification (IR) Conform	Density d20/4 0.775 - 0.782	

Code	Size	Packaging
P0250216	ml 1000	Glass bottle
P0250229	ml 5000	Plastic drum
P0250240	l 10	Metal tank
P0250248	l 25	Metal drum
P0250268	l 200	Metal drum

## PS-Pure

sds

Assay (GC) >= 99 %	Refractive index at 20°C 1.424 - 1.428	Colour <= 10 Hazen
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Code	Size	Packaging
P0250028	ml 5000	Plastic drum
P0250048	l 25	Metal drum
P0250068	l 200	Metal drum

## RE-Pure

CARLO ERBA  
Qualità senza confini

Assay (GLC) >=99 %	Description Clear liquid	Density at 20° C 0.774 + 0.784
Refractive index at 20° 1.4214 + 1.4314	Boiling point 80 + 81 ° C	Water (K.F.) <=300 ppm
Residue on evaporation <=50 ppm		

Code	Size	Packaging
333752	ml 1000	Glass bottle
333751	ml 2500	Glass bottle
528215	ml 5000	Metal tank
528219	l 10	Bottle
333753	kg 21	Metal drum
528216	l 25	Drum
528217	l 200	Metal drum

## Cyclohexane-d12

Cicloesano-d12 - Cyclohexane-d12 - Ciclohexano-d12

**CaD12**  
Atomic weight: 96,260  
CAS N: 1735-17-7  
EEC N: 217-077-3

Transport classification  
ONU n. 1145  
Transport class: 3  
Packaging group: II



R: 11-38-50/53-65-67  
S: 9-16-25-33-60-61-62

## Cyclohexane-d12 - Special Grade

## RS-For NMR spectroscopy

sds

Code	Size	Packaging	Notes
P5151A	ml 1	Ampoule	Isotopic purity 99,50%

For further information on above products, see following product/application section(s)  
NMR Spectroscopy (p. 65)

## Cyclohexanol

Cicloesanol - Cyclohexanol - Cyclohexanol

**CH<sub>2</sub>(CH<sub>2</sub>)<sub>4</sub>CHOH**  
 Atomic weight: 100,16  
 CAS N: 108-93-0  
 EEC N: 203-630-6



R: 20/22-37/38  
 S: 24/25

**Synonymes**  
 Hexahydrophénol  
 Hexaline

## Cyclohexanol - Analytical Grade

## PA-PUREX-for analysis

Assay (GC) >= 98.5 %      Refractive index at 20°C 1.462 - 1.466      Water content (K.F.) <= 1000 mg/Kg  
 Colour <= 10 Hazen      Cyclohexanone <= 5000 mg/Kg      Phenols <= 10 mg/Kg

Code	Size	Packaging
P0260521	ml 2500	Glass bottle

## RPE-For analysis

Assay (GLC) >=99 %      Description Clear colourless liquid      Refractive index at 20° 1.4610 ± 1.4690  
 Water (K.F.) <=0.1 %      Residue on evaporation <=100 ppm      Cyclohexanone <=0.5 %

Code	Size	Packaging
437002	ml 1000	Glass bottle
437001	kg 25	Metal drum

## Cyclohexanol - Technical Grade

## PS-Pure-for synthesis

Assay (GC) >= 98.5 %      Refractive index at 20°C 1.462 - 1.466      Water content (K.F.) <= 2000 mg/Kg  
 Colour <= 15 Hazen      Cyclohexanone <= 6000 mg/Kg

Code	Size	Packaging
P0260248	l 25	Metal drum
P0260268	l 200	Metal drum

## RE-Pure

Assay (GLC) >=98 %      Description Clear colourless liquid      Refractive index at 20° 1.4600 ± 1.4670  
 Residue on evaporation <=0.1 %

Code	Size	Packaging
333801	ml 1000	Glass bottle

## Cyclohexanone

Cicloesanone - Cyclohexanone - Cyclohexanona

**CH<sub>2</sub>(CH<sub>2</sub>)<sub>4</sub>CO**  
 Atomic weight: 98,146  
 CAS N: 108-94-1  
 EEC N: 203-631-1

**Transport classification**  
 ONU n. 1915  
 Transport class: 3  
 Packaging group: III



R: 10-20  
 S: 25

**Synonymes**  
 Kétohexaméthylène

## Cyclohexanone - Analytical Grade

## RPE-For analysis

Assay (GLC) >=99.5 %      Description Clear colourless liquid      Density at 20° C 0.941 ± 0.951  
 Refractive index at 20° 1.4477 ± 1.4537      Boiling point 152 ± 157 °C      Water (K.F.) <=0.1 %  
 Residue on evaporation <=500 ppm      Aldehydes(Formaldehyde) <=500 ppm      Cyclohexanol <= 0.1 %  
 Heavy metals (Pb) <=2 ppm      Fe <=1 ppm

Code	Size	Packaging
437053	ml 1000	Glass bottle
437052	ml 2500	Glass bottle
437055	kg 25	Glass-polystyrene container

## Cyclohexanone - Technical Grade

## RE-Pure

Assay (GLC) >=99 %      Description Yellow clear liquid      Density at 20° C 0.941 ± 0.951  
 Refractive index at 20° 1.4457 ± 1.4557      Boiling point 152 ± 157 °C      Water (K.F.) <=0.1 %  
 Acidity(CycloexilcarAc) <=0.2 %      Cyclohexanol <= 0.1 %      Residue on evaporation <=500 ppm

Code	Size	Packaging
333901	ml 1000	Glass bottle
333902	kg 26	Metal drum
528332	l 200	Metallic can

## Cyclohexylamine

Cicloesilamina - Cyclohexylamine - Cyclohexilamina

**CH<sub>2</sub>(CH<sub>2</sub>)<sub>4</sub>CHNH<sub>2</sub>**  
 Atomic weight: 99,17  
 CAS N: 108-91-8  
 EEC N: 203-629-0

**Transport classification**  
 ONU n. 2357  
 Transport class: 8  
 Secondary risk: 3  
 Packaging group: II



R: 10-21/22-34  
 S: 36/37/39-45

**Synonymes**  
 Hexahydroaniline

## Cyclohexylamine - Analytical Grade

## Cyclohexylamine - Analytical Grade



## RPE-For analysis

Assay (alkalimetric) >=99 %	Description Clear colourless liquid	Density at 20° C 0.864 ± 0.870
Refractive index at 20° 1.4572 ± 1.4612	Boiling point 134.0 ± 135.0 ° C	Residue on ignition <=50 ppm

Code	Size	Packaging
437104	ml 1000	Glass bottle

## Cyclohexylamine - Technical Grade

## RE-Pure



Assay (alkalimetric) >=98 %	Description Clear colourless liquid	Density at 20° C 0.862 ± 0.872
Refractive index at 20° 1.4562 ± 1.4622	Boiling point 133.8 ± 135.3 ° C	Residue on ignition <=1 %

Code	Size	Packaging
334001	ml 1000	Glass bottle
334003	kg 24	Metal drum

## Cyclohexylbutyric acid

Acido cicloesilbutirrico - Acide cyclohexylbutyrique - Acido ciclohexilbutirico

$\text{CH}_2(\text{CH}_2)_4\text{CH}(\text{CH}_2)_2\text{CO}_2\text{H}$   
 Atomic weight: 170.24  
 CAS N: 4441-63-8  
 EEC N: 224-665-3

## Cyclohexylbutyric acid - Analytical Grade

## RPE-For analysis



Assay (GLC) 99 + 100 %	Description Semitransparent white crystals	Heavy metals (Pb) <=10 ppm
Residue on ignition <=100 ppm	Fe <=10 ppm	

Code	Size	Packaging
403641	g 5	Glass jar

## Cyclopentyl methyl ether

Ciclopentil-metil-etere - Cyclopentylméthyléther - Ciclopentil metil eter

$\text{C}_6\text{H}_{12}\text{O}$   
 Atomic weight: 100.160  
 CAS N: 5614-37-9

## Cyclopentyl methyl ether - Technical Grade

## PS-Pure-for synthesis



Code	Size	Packaging
P8010216	ml 1000	Glass bottle
P8010229	ml 5000	Plastic drum
P8010248	l 25	Metal drum
P8010268	l 200	Metal drum

For further information on above products, see following product/application section(s)  
 Green solvents (p. 45)

## p-Cymene

p-Cimene - p-Cymène - p-Cimeno

$\text{CH}_3\text{C}_6\text{H}_4\text{CH}(\text{CH}_3)_2$   
 Atomic weight: 134.22  
 CAS N: 99-87-6  
 EEC N: 202-796-7

Transport classification  
 ONU n. 2046  
 Transport class: 3  
 Packaging group: III  
 R: 10

## p-Cymene - Technical Grade

## RE-Pure



Assay (GLC) >=97 %	Description Yellow clear liquid	Alcohol miscibility Complete
Diethyl ether miscib. Complete	Density at 20° C 0.853 ± 0.861	Refractive index at 20° 1.4884 ± 1.4924
Boiling point 176.5 ± 177.5 ° C	Water (K.F.) <=100 ppm	Residue on ignition <=10 ppm
Total sulphur <=20 ppm		

Code	Size	Packaging
437151	ml 100	Glass bottle

## L(-)Cysteine

L(-)Cisteina - L(-)Cystéine - L(-)Cisteína

$\text{HSCH}_2\text{CH}(\text{NH}_2)\text{COOH}$   
 Atomic weight: 121.16  
 CAS N: 52-90-4  
 EEC N: 200-158-2



R: 22

## L(-)Cysteine - Analytical Grade

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
M  
N  
O  
P  
Q  
R  
S  
T  
U  
V  
W  
X  
Y  
Z**L(-)Cysteine - Analytical Grade****RPE-For analysis**

Assay (iodometric) $\geq 99.0\%$ (s.s.)	Description White powder	Specific optical rotation $+8 + +9.5^\circ$
Loss on drying $\leq 0.5\%$	Chloride $\leq 400$ ppm	Heavy metals (Pb) $\leq 10$ ppm
Residue on ignition $\leq 0.1\%$	Sulphate $\leq 300$ ppm	

Code	Size	Packaging
437308	g 5	Glass jar

For biochemistry

**L(-)Cystine**

L(-)Cistina - L(-)Cystine - L(-)Cistina



Atomic weight: 240.30

CAS N: 56-89-3

EEC N: 200-296-3

**L(-)Cystine - Analytical Grade****RPE-For analysis**

Assay (acidimetric) $\geq 98.5\%$	Description White crystalline powder	Loss on drying $\leq 0.5\%$
Potere rotat. spec. (C=2; HCl 1M) $-209 + -224^\circ$ (s.s.)	Ammonium $\leq 200$ ppm	Chloride $\leq 200$ ppm
Sulphate $\leq 300$ ppm	Heavy metals (Pb) $\leq 10$ ppm	Residue on ignition $\leq 0.1\%$
Fe $\leq 10$ ppm		

Code	Size	Packaging
437351	g 10	Glass jar
437355	g 100	Glass jar

For biochemistry

**Decahydronaphthalene**

Decaidronaftalene - Décahydronaphtalène - Decahidronaftaleno

C10H18

Atomic weight: 138.25

CAS N: 91-17-8

EEC N: 202-046-9

Transport classification

ONU n. 1147

Transport class: 3

Packaging group: III



R: 36/38

S: 24/25

**Decahydronaphthalene - Technical Grade****RE-Pure**

Assay (GLC) $\geq 98\%$	Description Clear colourless liquid	Density at $20^\circ\text{C}$ $0.881 + 0.891$
Refractive index at $20^\circ$ $1.4710 + 1.4810$	Boiling point $188.5 + 191.5^\circ\text{C}$	

Code	Size	Packaging
336752	ml 1000	Glass bottle

**Decalcifying agent**

Decalcificante - Décalcifiant - Descalcificante

**Decalcifying agent - Special Grade****RS-For histology**

Titolo EDTA Na2 (mom. preparaz.) $\geq 0.26\%$ (p/p)	Titolo HCl (mom. preparaz.) $\geq 2.21\%$ (p/p)	Description Clear colourless liquid
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Code	Size	Packaging
441221	ml 1000	Glass bottle

For further information on above products, see following product/application section(s)

Microscopy (p. 58)

**Delafield ematossiline**

Delafield ematossilina - Hématoxyline de Delafield - Delafield ematossilina

Transport classification

ONU n. 1993

Transport class: 3,  $31^\circ\text{C}$ 

R: 10-20/22

S: 24

**Delafield ematossiline - Special Grade****RS-For microscopy**

Code	Size	Packaging
460551	ml 250	Glass bottle


For further information on above products, see following product/application section(s)

Microscopy (p. 58)

## Deniges' reagent

Deniges reattivo soluzione in acido solforico - Réactif de Denigès - Deniges reattivo soluzione in acido solforico

**Transport classification**  
 ONU n. 2922  
 Transport class: 8  
 Secondary risk: 6.1  
 Packaging group: II

  
 R: 35-23/24/25-33  
 S: 28-45

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
M  
N  
O  
P  
Q  
R  
S  
T  
U  
V  
W  
X  
Y  
Z

## Deniges' reagent - Special Grade

## RS-For acetone test



Description Clear colourless liquid

Code	Size	Packaging
441281	ml 500	Glass bottle

## Detergent DNS

Detergente DNS - Détergent DNS - Detergente DNS



R: 36/38  
 S: 24/25

## Detergent DNS - Technical Grade

## RE-Detergent



Description Yellow clear liquid	pH of the substance 11.0 + 12.0	Density at 20° C 1.15 + 1.19 g/ml
Residue at 105°C 25.0 + 29.0 %	Residue at 900°C 14.0 + 18.0 %	Poliphosphates 10.0 + 14.0 %
Surface-active agent 7.0 + 9.0 %	Free alkalinity (KOH) Absent	Residue on filtration <=100 ppm

Code	Size	Packaging
336894	kg 30	Drum
336891	kg 220	Drum

## RE-Detergent (alcalin)



Description Yellow clear liquid	pH of the substance 13.0 + 14.0	Density at 20° C 1.16 + 1.20 g/ml
Residue at 105°C 27.0 + 31.0 %	Residue at 900°C 16.0 + 20.0 %	Poliphosphates 10.0 + 14.0 %
Surface-active agent 7.0 + 9.0 %	Free alkalinity (KOH) 1.3 + 1.9 %	Residue on filtration <=100 ppm

Code	Size	Packaging
336884	kg 30	Drum
336881		

## Deuterium oxide-d

Deuterio ossido-d - Deutérium oxyde-d - Deuterio oxido-d

D<sub>2</sub>O

Atomic weight: 20,030  
 CAS N: 7789-20-0  
 EEC N: 232-148-9

## Deuterium oxide-d - Special Grade

## RS-For NMR spectroscopy



Code	Size	Packaging	Notes
P5165	ml 25	Glass bottle	Isotopic purity 99,80%
P5165S	ml 25	Bottle with sept	Isotopic purity 99,80%
P5175	ml 25	Bottle with sept	Isotopic purity 99,98%
P5166	ml 100	Glass bottle	Isotopic purity 99,80%
P5168	ml 1000	Glass bottle	Isotopic purity 99,80%
P5160	10 x ml 0,6	Ampoule	Isotopic purity 99,80%
P5160T	10 x ml 0,6	Ampoule	+0,03% TSPD4 - Isotopic purity 99,80%
P5164	5 x ml 10	Glass bottle	Isotopic purity 99,80%
P5169	10 x ml 0,75	Ampoule	Isotopic purity 99,80%
P5170D	10 x ml 0,6	Ampoule	+0,01% DMSO - Isotopic purity 99,97%
P5179	10 x ml 0,75	Ampoule	Isotopic purity 99,98%

For further information on above products, see following product/application section(s)  
 NMR Spectroscopy (p. 65)

## Devarda's alloy powder

Lega Devarda polvere - Alliage de Devarda en poudre - Aleación según Devarda polvo

CAS N: 8049-11-4

R: 10  
 S: 7/9-16

## Devarda's alloy powder - Analytical Grade

## Devarda's alloy powder - Analytical Grade

## RPE-For analysis



Description Greyish metallic powder N >=0.005 % Al >=45 %  
 Cu >=50 % Zn >=5 %

Code	Size	Packaging
457625	g 250	Glass jar
457627	g 1000	Plastic jar

## Dextrin

Destrina - Dextrine - Dextrina

(C<sub>6</sub>H<sub>10</sub>O<sub>5</sub>)<sub>n</sub>  
 Atomic weight: (162,14)N  
 CAS N: 9004-53-9  
 EEC N: 232-675-4

## Dextrin - Technical Grade

## RE-Pure



Description White yellowish powder Loss on drying <=11 % Acidity(Sulphuric acid) <=0.3 %  
 Residue on ignition <=0.1 % Red.sugars(Dextrose) <=4 %

Code	Size	Packaging
441467	g 1000	Glass jar

For biochemistry

## Diacetin

Diacetina - Diacétine - Diacetina

C<sub>12</sub>H<sub>22</sub>O<sub>8</sub>  
 Atomic weight: 176,170  
 CAS N: 25395-31-7  
 EEC N: 246-941-2

## Diacetin - Technical Grade

## RE-Pure



Description Clear colourless liquid Density at 20° C 1.170 + 1.190 Chloride <=200 ppm  
 Residue on ignition <=0.2 % Sulphate <=200 ppm

Code	Size	Packaging
441721	ml 250	Glass bottle

## Diacetone alcohol

Diacetonalcòle - Diacétone alcool - Diacetonalcool

(CH<sub>3</sub>)<sub>2</sub>C(OH)CH<sub>2</sub>COCH<sub>3</sub>  
 Atomic weight: 116,16  
 CAS N: 123-42-2  
 EEC N: 204-626-7

Transport classification  
 ONU n. 1148  
 Transport class: 3  
 Packaging group: III



R: 36  
 S: 24/25

## Diacetone alcohol - Analytical Grade

## RPE-For analysis



Assay (GLC) >= 99 % Description Yellow clear liquid Water miscibility Conform  
 Alcohol miscibility Conform Density at 25° C 0.927 + 0.935 Refractive index at 20° 1.4212 + 1.4272  
 Water (K.F.) <= 0.1 % Residue on evaporation <= 50 ppm Acidity (acetic acid) <= 100 ppm  
 Alkalinity (NH<sub>3</sub>) <= 10 ppm Heavy metals (Pb) <= 2 ppm Fe <= 1 ppm

Code	Size	Packaging
441771	ml 250	Glass bottle
441774	ml 1000	Glass bottle

## Diacetone alcohol - Technical Grade

## PS-Pure-for synthesis



Assay (GC) >= 98.5 % Refractive index at 20°C 1.421 - 1.425 Water content (K.F.) <= 1500 mg/Kg  
 Colour <= 20 Hazen Free acid (as CH<sub>3</sub>COOH) <= 0.01 % m/m

Code	Size	Packaging
P6090068	l 200	Metal drum

## RE-Pure



Assay (GLC) >= 98 % Description Yellow clear liquid Density at 25° C 0.926 + 0.936  
 Refractive index at 20° 1.4192 + 1.4292 Water (K.F.) <= 0.3 % Residue on evaporation <= 100 ppm  
 Acidity (acetic acid) <= 100 ppm

Code	Size	Packaging
337001	ml 1000	Glass bottle
337004	ml 2500	Glass bottle
337002	kg 18	Metal drum



## Diacetyl

*Diacetile - Diacétyle - Diacético*

**CH<sub>3</sub>COCOCH<sub>3</sub>**  
 Atomic weight: 86,10  
 CAS N: 431-03-8  
 EEC N: 207-069-8

**Transport classification**  
 ONU n. 2346  
 Transport class: 3  
 Packaging group: II



## Diacetyl - Analytical Grade

## RPE-For analysis



Assay (GLC) >= 98.5 % Description Yellow clear liquid Density at 20° C 0.98 ± 0.99  
 Refractive index at 20° 1.3910 ± 1.3990

Code	Size	Packaging
441672	ml 100	Glass bottle
441677	ml 1000	Glass bottle

## Diacetyldioxime

*Diacetildiossima - Diacétildioxime - Diacetildioxima*

**CH<sub>3</sub>C:NOHC:NOHCH<sub>3</sub>**  
 Atomic weight: 116,12  
 CAS N: 95-45-4  
 EEC N: 202-420-1



## Diacetyldioxime - Analytical Grade

## RPE-ACS-for analysis



Description White crystalline powder Suitability for Ni det. Conform Melting point 239 ± 241 °C  
 Alcohol-insolub. matter <= 0.05 % Residue on calcination <= 0.05 % Melting point 239 ± 241 °C

Code	Size	Packaging
441553	g 50	Glass jar

Reagent for the spectrophotometric analysis of Co(III), Fe(II), Ni(II), Pd(II).

## Diacetyldioxime - Technical Grade

## RE-Pure



Assay (gravimetric) >=94 % Description Polvere bianco rosa Melting point 238 ± 242 °C  
 Chloride <=500 ppm Alcohol-insolub. matter <=0.1 % Residue on ignition <=0.1 %  
 Sulphate <=500 ppm

Code	Size	Packaging
336783	kg 25	Fibre drum

## Diacetyldioxime sodium salt

*Diacetildiossima sale sodico - Diacétildioxime sel sodique - Diacetildioxima sal sódica*

**CH<sub>3</sub>C:NONaC:NONaCH<sub>3</sub>.5H<sub>2</sub>O**  
 Atomic weight: 304,09  
 CAS N: 75006-64-3  
 EEC N: 262-523-2



## Diacetyldioxime sodium salt - Analytical Grade

## RPE-For analysis



Assay (gravimetric) >=99 % Description White powder Suitability for Ni det. Conform  
 Loss on drying 45.8 ± 49.0 % Chloride <=50 ppm Water-insoluble matter <=50 ppm  
 Sulphate <=50 ppm

Code	Size	Packaging
441623	g 50	Glass jar
441625	g 250	Glass jar

For the precipitation of metals

## Diacetyldioxime solution 1% in ethanol

*Diacetildiossima soluzione 1% in alcole etilico - Diacétildioxime en solution à 1% dans l'éthanol - Diacetildioxima solución 1% en alcohol etílico*

**CH<sub>3</sub>C:NOHC:NOHCH<sub>3</sub>**  
 CAS N: 95-45-4  
 EEC N: 202-420-1

**Transport classification**  
 ONU n. 1170  
 Transport class: 3  
 Packaging group: II



## Diacetyldioxime solution 1% in ethanol - Analytical Grade

## RPE-For analysis



Description Clear colourless liquid Density at 15° C 0.813 ± 0.819

Code	Size	Packaging
441581	ml 500	Bottle

Indicator for metals analysis

## 3,3'-Diaminobenzidine tetrahydrochloride

3,3'-Diamminobenzidina cloridrato - 3,3'-Diaminobenzidine chlorhydrate - 3,3'-Diaminobencidina clorhidrato

$(\text{NH}_2)_2\text{C}_6\text{H}_3\text{C}_6\text{H}_3(\text{NH}_2)_2 \cdot 5\text{HCl} \cdot 5\text{H}_2\text{O}$   
Atomic weight: 396,16  
CAS N: 7411-49-6  
EEC N: 231-018-9



R: 20/21/22

### 3,3'-Diaminobenzidine tetrahydrochloride - Analytical Grade



#### RPE-For analysis

Assay (argentimetric)  $\geq 97.5\%$  Description Pink-greyish powder Water  $\leq 10\%$   
Selenium sensitivity Conform

Code	Size	Packaging
441803	g 1	Glass jar

For the spectrophotometric analysis of Se.

## trans-1,2-Diaminocyclohexane-N,N,N',N'-tetra-acetic acid

$\text{C}_8\text{H}_{12}\text{N}_2\text{O}_6 \cdot \text{H}_2\text{O}$   
Atomic weight: 364,35  
CAS N: 13291-61-7  
EEC N: 236-308-9



R: 36/38  
S: 26-36

### trans-1,2-Diaminocyclohexane-N,N,N',N'-tetra-acetic acid - Analytical Grade



#### RPE-For analysis

Assay (complexometric)  $\geq 98\%$  (s.s.) Description White powder Residue on ignition  $\leq 1\%$

Code	Size	Packaging
405031	g 10	Glass jar

For complexometry

## 1,1'-Dianthrimide

1,1'-Diantrimmide - 1,1'-Dianthrimide - 1,1'-Diantrimida

$(\text{C}_8\text{H}_7\text{COC}_6\text{H}_4\text{CO})_2\text{NH}$   
Atomic weight: 429,44  
CAS N: 82-22-4  
EEC N: 201-405-7

### 1,1'-Dianthrimide - Analytical Grade



#### RPE-For analysis

Description Red brown powder Boron sensitivity  $\geq 10$  ng/ml

Code	Size	Packaging
441841	g 10	Glass jar

For the analysis of B

## Dibenzoyl peroxide

Dibenzoile perossido - Benzoyle peroxyde - Dibenzoilo paraòxido

$(\text{C}_6\text{H}_5\text{CO})_2\text{O}_2$   
Atomic weight: 242,22  
CAS N: 94-36-0  
EEC N: 202-327-6

Transport classification  
ONU n. 3104  
Transport class: 5.2  
Packaging group: II



R: 2-36-43  
S: 3/7-14-36/37/39

### Dibenzoyl peroxide - Technical Grade



#### RE-Pure

Assay (oxidimetric)  $72 \pm 77\%$  Description White granular powder

Code	Size	Packaging
427345	g 250	Plastic jar
427347	g 1000	Plastic jar

## Dibenzoylmethane

Dibenzoilmetano - Dibenzoylméthane - Dibenzoilmetano

$(\text{C}_6\text{H}_5\text{CO})_2\text{CH}_2$   
Atomic weight: 224,26  
CAS N: 120-46-7  
EEC N: 204-398-9

### Dibenzoylmethane - Analytical Grade



#### RPE-For analysis

Assay (GLC)  $99 \pm 100\%$  Description Yellowish crystalline powder Melting point  $77.0 \pm 79.0^\circ\text{C}$   
Water (K.F.)  $\leq 0.1\%$  Residue on ignition  $\leq 500$  ppm

Code	Size	Packaging
441873	g 25	Glass jar

## D-Dibenzoyltartaric acid anhydrous

Acido D-dibenzoiltartarico anidro - Acide D-dibenzoiltartrique anhydre - Acido D-dibenzoiltartárico anhidro

HOOC(CHOCOC<sub>6</sub>H<sub>5</sub>)<sub>2</sub>COOH

Atomic weight: 358,32

CAS N: 17026-42-5

EEC N: 241-097-1

## D-Dibenzoyltartaric acid anhydrous - Analytical Grade

## RPE-For analysis



Assay (acidimetric) 99 ± 100 %	Description Polvere granulati bianchi	Specific optical rotation +114.5 ± +117.5 °
Chloride ≤10 ppm	Alcohol-insolub. matter ≤100 ppm	Heavy metals (Pb) ≤10 ppm
Residue on ignition ≤0.1 %	Sulphate ≤50 ppm	Fe ≤10 ppm

Code	Size	Packaging
405055	g 250	Plastic jar

## L-Dibenzoyltartaric acid anhydrous

Acido L-dibenzoiltartarico anidro - Acide L-dibenzoiltartrique anhydre - Acido L-dibenzoiltartárico anhidro

HOOC(CHOCOC<sub>6</sub>H<sub>5</sub>)<sub>2</sub>COOH

Atomic weight: 358,32

CAS N: 2743-38-6

EEC N: 220-374-0

## L-Dibenzoyltartaric acid anhydrous - Technical Grade

## RE-Pure



Assay (acidimetric) ≥98 %	Description White powder	Specific optical rotation -113 ± -117 °
Residue on ignition ≤0.1 %	Heavy metals (Pb) ≤10 ppm	Fe ≤10 ppm

Code	Size	Packaging
303122	g 1000	Plastic jar
303121	kg 50	Fibre drum

## L-Dibenzoyltartaric acid monohydrate

Acido L-dibenzoiltartarico monoidrato - Acide L-dibenzoiltartrique monohydraté - Acido L-dibenzoiltartárico monohidrato

[C<sub>14</sub>H<sub>10</sub>CO<sub>2</sub>CH(CO<sub>2</sub>H)]<sub>2</sub>

Atomic weight: 358,300

CAS N: 2743-38-6

EEC N: 220-374-0

## L-Dibenzoyltartaric acid monohydrate - Technical Grade

## RE-Pure



Assay (acidimetric) 98 ± 100 %	Description Polvere granulati bianchi	Specific optical rotation on dry -116 ± -124
Water (K.F.) ≤5.5 %	Heavy metals (Pb) ≤10 ppm	Residue on ignition ≤0.1 %

Code	Size	Packaging
303117	g 5000	Plastic jar

## 2,6-Dibromo-p-benzoquinone-4-chlorimide

2,6-Dibromochinonclorimide - 2,6-Dibromoquinone-4-chloroimide - 2,6-Dibromoquinonacolorimida

ClN:CCH:CBrCOCBr:CH

Atomic weight: 299,37

CAS N: 537-45-1

EEC N: 208-667-1

R: 36/37/38  
S: 24/25

## 2,6-Dibromo-p-benzoquinone-4-chlorimide - Analytical Grade

## RPE-For analysis



Description Yellow crystalline powder	Alcohol solubility Conform	Melting point 82.0 ± 84.0 °C
Residue on ignition ≤0.1 %	Phenol sensitivity ~ 1 µg/ml	

Code	Size	Packaging
441958	g 5	Glass jar

For the analysis of phenols

## 2,4'-Dibromoacetophenone

p-Bromo fenacile bromuro - 2,4-Dibromo-acétophénone - 2,4'-Dibromo acetofenona

BrC<sub>6</sub>H<sub>4</sub>COCH<sub>2</sub>Br

Atomic weight: 277,95

CAS N: 99-73-0

EEC N: 202-783-6

Transport classification

ONU n. 2811

Transport class: 6.1

Packaging group: II

R: 36/37/38  
S: 39

## 2,4'-Dibromoacetophenone - Analytical Grade

## 2,4'-Dibromoacetophenone - Analytical Grade

## RPE-For analysis



Assay 99 + 100 % Description Pv fine giallo verde

Code	Size	Packaging
430361	g 10	Glass jar

For further information on above products, see following product/application section(s)  
Chromatography (p. 34)

## 1,1-Dichloro-1-fluoro-ethane

1,1-Dicloro-1-fluoro-etano - 1,1-Dichloro-1-fluoro-éthanol - 1,1-Dichloro-1-fluoro-etanol

Transport classification  
ONU n. 3082  
Transport class: 9  
Packaging group: III



## 1,1-Dichloro-1-fluoro-ethane - Technical Grade

## PS-Pure-for synthesis



Assay (GC) &gt;= 99.3 % Refractive index at 20°C 1.368 - 1.372 Colour &lt;= 10 Hazen

Code	Size	Packaging
P6010221	ml 2500	Glass bottle

## 1,3-Dichloro-2-propanol

1,3-Dicloro-2-propanolo - 1,3-Dichloro-2-propanol - 1,3-Dicloro-2-propanol

**CH<sub>2</sub>ClCHOHCH<sub>2</sub>Cl**  
Atomic weight: 128,99  
CAS N: 96-23-1  
EEC N: 202-491-9

Transport classification  
ONU n. 2750  
Transport class: 6.1  
Packaging group: II

R: 45-21-25  
S: 45-53Synonyms  
alpha, Y-Dichlorhydrine

## 1,3-Dichloro-2-propanol - Analytical Grade

## RPE-For analysis

Assay (argentimetric) 98 + 100 % Description Clear colourless liquid Density at 20 °C 1.356 + 1.364  
Refractive index at 20° 1.4807 + 1.4867 Acidity (HCl) <=0.1 % Residue on ignition <=100 ppm

Code	Size	Packaging
437652	ml 250	Glass bottle

## 2,3-Dichloro-5,6-dicyano-p-benzoquinone

2,3-Diclorodiciano-5,6-benzo-1,4-chinone - 2,3-Dichloro-5,6-dicyano-1,4-benzoquinone - 2,3-Dicloro-5,6-diciano-1,4-benzoquinona

**COCCl:CClCOC(CN):C(CN)**  
Atomic weight: 227,01  
CAS N: 84-58-2  
EEC N: 201-542-2

Transport classification  
ONU n. 3439  
Transport class: 6.1  
Packaging group: II

R: 25-29  
S: 22-24/25-37-45

## 2,3-Dichloro-5,6-dicyano-p-benzoquinone - Analytical Grade

## RPE-For analysis



Assay (argentimetric) 99 + 100 % Description Yellow powder

Code	Size	Packaging
442481	g 5	Glass jar

For the dehydrogenation of hydroaromatic compounds

## 2,6-Dichloro-p-benzoquinone-4-chlorimide

2,6-Diclorochinonclorimide - 2,6-Dichloroquinone-4-chloroimide - 2,6-Dicloroquinonaclorimida

**CIN:CCH:CClCOC(Cl):CH**  
Atomic weight: 210,46  
CAS N: 101-38-2  
EEC N: 202-937-2

R: 36/37/38  
S: 24/25

## 2,6-Dichloro-p-benzoquinone-4-chlorimide - Analytical Grade

## RPE-For analysis

Assay (argentimetric) >=98 % Description Yellow orange powder Melting point 65.0 + 67.0 ° C  
Residue on ignition <=0.1 % Phenol sensitivity >=1 µg/ml

Code	Size	Packaging
442458	g 5	Glass jar

For the spectrophometric analysis of B6 vitamin.

## Dichloroacetic acid

Acido dicloroacetico - Acide dichloroacétique - Acido dicloroacético

**CHCl<sub>2</sub>COOH**  
Atomic weight: 128,94  
CAS N: 79-43-6  
EEC N: 201-207-0

Transport classification  
ONU n. 1764  
Transport class: 8  
Packaging group: II

R: 35-50  
S: 26-45-61

## Dichloroacetic acid - Analytical Grade



## RPE-For analysis

Assay (acidimetric) 99.0 + 101.0 %	Description Clear liquid	Colour <= 50 APHA
Density at 20° C 1.562 + 1.572	Refractive index at 20° 1.4653 + 1.4663	

Code	Size	Packaging
405101	ml 250	Glass bottle
405103	ml 1000	Glass bottle
405104	kg 35	Polythene-metal drum

## Dichloroacetic acid - Technical Grade



## RE-Pure

Assay (acidimetric) >= 99 %	Description Clear liquid	Freezing point >= 12 °C
Water (KF) <= 0.3 %		

Code	Size	Packaging
303151	ml 1000	Glass bottle

## o-Dichlorobenzene

*o-Diclorobenzolo - o-Dichlorobenzène - o-Diclorobenceno*C<sub>6</sub>H<sub>4</sub>Cl<sub>2</sub>

Atomic weight: 147,00  
CAS N: 95-50-1  
EEC N: 202-425-9

## Transport classification

ONU n. 1591  
Transport class: 6.1  
Packaging group: III



R: 22-36/37/38-50/53  
S: 23-60-61

## o-Dichlorobenzene - Analytical Grade



## RPE-For analysis

Assay (GLC) >=99 %	Description Clear liquid	Density at 20° C 1.299 + 1.311
Refractive index at 20° 1.5450 + 1.5520	Boiling point 178.0 + 180.0 °C	Water (K.F.) <=500 ppm
Residue on evaporation <=50 ppm	Acidity (HCl) <=50 ppm	Free chlorine <=1 ppm

Code	Size	Packaging
442301	ml 500	Glass bottle

## o-Dichlorobenzene - Technical Grade



## RE-Pure

Assay (GLC) >=98 %	Description Clear liquid	Density at 20° C 1.295 + 1.315
Refractive index at 20° 1.5435 + 1.5535	Boiling point 177.8 + 180.3 °C	Residue on ignition <=0.2 %

Code	Size	Packaging
337251	ml 1000	Glass bottle

## m-Dichlorobenzene

*m-Diclorobenzolo - m-Dichlorobenzène - m-Diclorobenceno*C<sub>6</sub>H<sub>4</sub>Cl<sub>2</sub>

Atomic weight: 147,00  
CAS N: 541-73-1  
EEC N: 208-792-1

## Transport classification

ONU n. 2810  
Transport class: 6.1  
Packaging group: III



R: 22-51/53  
S: 61

## m-Dichlorobenzene - Analytical Grade



## RPE-For analysis

Assay (GLC) >= 99 %	Description Liquido incolore o giallognolo	Density at 20° C 1.283 + 1.293
Refractive index at 20° 1.5435 + 1.5485	Boiling point 171 + 173 °C	Residue on ignition <= 100 ppm

Code	Size	Packaging
442353	ml 100	Glass bottle

## p-Dichlorobenzene

*p-Diclorobenzolo - p-Dichlorobenzène - p-Diclorobenceno*C<sub>6</sub>H<sub>4</sub>Cl<sub>2</sub>

Atomic weight: 147,00  
CAS N: 106-46-7  
EEC N: 203-400-5

## Transport classification

ONU n. 3077  
Transport class: 9  
Packaging group: III



R: 36-40-50/53  
S: 36/37-46-60-61

## p-Dichlorobenzene - Analytical Grade



## RPE-For analysis

Assay (GLC) >=99 %	Description White crystals	Melting point 52.0 + 54.0 ° C
Residue on ignition <=500 ppm		

Code	Size	Packaging
442406	g 500	Plastic jar

## p-Dichlorobenzene - Technical Grade

## p-Dichlorobenzene - Technical Grade

## RE-Pure



Assay (GLC) >= 96.0 %	Description White crystals	Melting point 52 + 56 ° C
<b>Code</b>	<b>Size</b>	<b>Packaging</b>
337307	g 1000	Plastic jar
337303	kg 25	Carton drum

## 1,2-Dichlorobenzene-d4

1,2-Dichlorobenzene-d4 - 1,2-Dichlorobenzène-d4 - 1,2-Dichlorobenceno-d4

CaD<sub>2</sub>Cl<sub>2</sub>Atomic weight: 151,040  
CAS N: 2199-69-1  
EEC N: 218-606-0

## Transport classification

ONU n. 1591  
Transport class: 6.1  
Packaging group: IIIR: 22-36/37/38-50/53  
S: 23-60-61

## 1,2-Dichlorobenzene-d4 - Special Grade

## RS-For NMR spectroscopy



<b>Code</b>	<b>Size</b>	<b>Packaging</b>	<b>Notes</b>
P5533A	ml 5	Ampoule	Isotopic purity 99,00%

For further information on above products, see following product/application section(s)

NMR Spectroscopy (p. 65)

## 1,2-Dichloroethane

sim-Etano dicloro - Sym-dichloroéthane - sim-Etano dicloro

CH<sub>2</sub>ClCH<sub>2</sub>ClAtomic weight: 98,960  
CAS N: 107-06-2  
EEC N: 203-458-1

## Transport classification

ONU n. 1184  
Transport class: 3  
Secondary risk: 6.1  
Packaging group: IIR: 45-11-22-36/37/38  
S: 53-45

## 1,2-Dichloroethane - Analytical Grade

## RPE-ACS-for analysis-Reag. Ph.Eur.-Reag. USP



Assay (GLC) >= 99.5 %	Description Clear liquid	Colour (APHA) <= 10
Density at 20° C 1.248 + 1.264	Refractive index at 20° 1.4418 + 1.4478	Boiling point 83.0 + 84.0 ° C
Intervallo di distillazione (>= 95%) 82 + 84 ° C	Acidity <= 0.0003 meq/g	Water (K.F.) <= 300 ppm
Residue on evaporation <= 20 ppm	Free chlorine <= 1 ppm	Subst. reducing KMnO <sub>4</sub> <= 10 ppm
Total phosphorus <= 0.5 ppm	Total silicon <= 0.05 ppm	Total sulphur <= 0.5 ppm
Ca <= 0.5 ppm	Cu <= 0.05 ppm	Fe <= 0.1 ppm
K <= 0.2 ppm	Mg <= 0.1 ppm	Na <= 0.5 ppm
Pb <= 0.02 ppm	Zn <= 0.2 ppm	

<b>Code</b>	<b>Size</b>	<b>Packaging</b>
447121	ml 1000	Glass bottle

## 1,2-Dichloroethane - Special Grade

## RS-Anhydrous-for analysis



Assay (GC) >= 99.8 %	Refractive index at 20°C 1.443 - 1.447	Water content (K.F.) <= 100 mg/Kg
Non volatile residue <= 10 mg/Kg	Colour <= 10 Hazen	Free acid (as HCl) <= 5 mg/Kg

<b>Code</b>	<b>Size</b>	<b>Packaging</b>
P0281016	ml 1000	Glass bottle
P0281021	ml 2500	Glass bottle

For further information on above products, see following product/application section(s)

Anhydrous solvents (p. 27)

## RS-For HPLC-Isocratic Grade



Assay (GC) >= 99.8 %	Refractive index at 20°C 1.443 - 1.447	Water content (K.F.) <= 100 mg/Kg
Colour <= 10 Hazen	UV transmittance at 240 nm >= 20 %	UV transmittance at 245 nm >= 55 %
UV transmittance at 250 nm >= 78 %	UV transmittance at 255 nm >= 90 %	UV transmittance at 260 nm >= 98 %
Free acid (as HCl) <= 5 mg/Kg	Non volatile residue <= 5 mg/Kg	

<b>Code</b>	<b>Size</b>	<b>Packaging</b>
P0283716	ml 1000	Glass bottle
P0283721	ml 2500	Glass bottle

For further information on above products, see following product/application section(s)

Chromatography (p. 34)

## 1,2-Dichloroethane - Special Grade

## RS-For optical spectroscopy



Assay (GLC) >=99.8 %	Description Clear colourless liquid	Density at 20° C 1.248 ± 1.264
Refractive index at 20° 1.4418 ± 1.4478	Boiling point 83.0 ± 84.0 ° C	Water (K.F.) <=100 ppm
Residue on evaporation <=5 ppm	Acidity <=0.0005 meq/g	Alcalinity <=0.0002 meq/g
<b>Fluorescence -</b>	at 254 nm <=2 ppb	at 365 nm <=2 ppb
<b>U.V. Transmittance -</b>	at 225 nm >=10 %	at 230 nm >=50 %
at 240 nm >=90 %	at 260 nm >=98 %	

Code	Size	Packaging
447141	ml 1000	Glass bottle

Spectrophotometric analysis (1 cm - ref. Water)

For further information on above products, see following product/application section(s)

Solvents for spectroscopy (p. 68)

## 1,2-Dichloroethane - Technical Grade

## PS-Pure-for synthesis



Assay (GC) >= 99.8 %	Refractive index at 20°C 1.443 - 1.447	Water content (K.F.) <= 300 mg/Kg
Non volatile residue <= 50 mg/Kg	Colour <= 10 Hazen	Free acid (as HCl) <= 10 mg/Kg

Code	Size	Packaging
P0280228	ml 5000	Plastic drum
P0280268	l 200	Metal drum

## RE-Pure



Assay (GLC) >=99.5 %	Description Clear colourless liquid	Phosgene Conform
Density at 20° C 1.246 ± 1.266	Refractive index at 20° 1.4398 ± 1.4498	Boiling point 82.8 ± 84.3 ° C
Water (K.F.) <=500 ppm	Residue on evaporation <=50 ppm	Acidity (HCl) <=5 ppm

Code	Size	Packaging
340151	ml 1000	Glass bottle
340155	kg 34	Metal drum

## 2',7'-Dichlorofluorescein

2',7'-Dichlorofluoresceina - 2',7'-Dichlorofluoresceine - 2',7'-Dichlorofluoresceina

**C<sub>20</sub>H<sub>10</sub>O<sub>6</sub>Cl<sub>2</sub>**

Atomic weight: 401.2

CAS N: 76-54-0

EEC N: 200-968-6

## 2',7'-Dichlorofluorescein - Analytical Grade

## RPE-For analysis



Description Ochre powder	Loss on drying (110°C) <= 5 %	Assorbimento max. (in NaOH 0.1N) 501 ± 503 nm
Cu <= 50 ppm	Fe <= 50 ppm	Ni <= 50 ppm
Pb <= 50 ppm		

Code	Size	Packaging
442541	g 10	Glass jar

For further information on above products, see following product/application section(s)

Chromatography (p. 34)

## Dichloromethane

Diclorometano - Dichlorométhane - Diclorometano

**CH<sub>2</sub>Cl<sub>2</sub>**

Atomic weight: 84,933

CAS N: 75-09-2

EEC N: 200-838-9

Transport classification

ONU n. 1593

Transport class: 6.1

Packaging group: III



R: 40

S: 23-24/25-36/37

## Dichloromethane - Analytical Grade

## PA-PUREX-for analysis-Stabilized with amylene



Assay (GC) >= 99.95 %	Refractive index at 20°C 1.422 - 1.426	Water content (K.F.) <= 100 mg/Kg
Non volatile residue <= 10 mg/Kg	Colour <= 10 Hazen	Stabilizer (Amylene) 30 - 60 mg/Kg
Free acid (as HCl) <= 3 mg/Kg	Carbon tetrachloride <= 20 mg/Kg	Chloroform <= 50 mg/Kg

Code	Size	Packaging
P02905A16	ml 1000	Glass bottle
P02905A29	ml 5000	Plastic drum
P02905A40	l 10	Plastic drum
P02905A68	l 200	Metal drum

## Dichloromethane - Analytical Grade

## PA-PUREX-for analysis-Stabilized with ethanol

sds

Assay (GC) (without stabilizer) >= 99.95 %	Refractive index at 20°C 1.422 - 1.426	Water content (K.F.) <= 100 mg/Kg
Non volatile residue <= 10 mg/Kg	Colour <= 10 Hazen	Stabilizer (Ethanol) 0.1 - 0.4 % m/m
Free acid (as HCl) <= 3 mg/Kg	Carbon tetrachloride <= 20 mg/Kg	Chloroform <= 40 mg/Kg

Code	Size	Packaging
P02905E28	ml 5000	Metal tank
P02905E29	ml 5000	Plastic drum
P02905E40	l 10	Plastic drum
P02905E68	l 200	Metal drum

## RPE-ACS-for analysis-Reag. Ph.Eur.-Reag. USP-Stabilized with amylene

CARLO ERBA  
Quality since 1889

Assay (GLC) >=99.5 %	Description Clear liquid	Colour (APHA) <=10
Identification (I.R.) Conform	Ready carbonizable substances Conform	Alcohol miscibility complete
Diethyl ether miscib. complete	Density at 20° C 1.322 + 1.328	Refractive index at 20° 1.4214 + 1.4274
Boiling point 39.6 + 40.1 ° C	Water (K.F.) <=200 ppm	Residue on evaporation <=10 ppm
Acidity <=0.0003 meq/g	Amylene 30 + 50 ppm	Chloride <=1 ppm
Al <=0.5 ppm	B <=0.02 ppm	Ba <=0.1 ppm
Ca <=0.5 ppm	Cd <=0.05 ppm	Co <=0.02 ppm
Cr <=0.02 ppm	Cu <=0.02 ppm	Fe <=0.1 ppm
Mg <=0.1 ppm	Mn <=0.02 ppm	Ni <=0.02 ppm
Pb <=0.1 ppm	Sn <=0.1 ppm	Zn <=0.1 ppm
Free halogens Conform		

Code	Size	Packaging
463311	ml 1000	Glass bottle
463314	ml 2500	Glass bottle
463318	kg 20	Drum
463315	kg 35	Polythene-metal drum

## RPE-For analysis-Stabilized with amylene

CARLO ERBA  
Quality since 1889

Code	Size	Packaging
524314	l 200	Metallic can

## Dichloromethane - Special Grade

## RS-Anhydrous-for analysis-Stabilized with amylene

sds

Assay (GC) >= 99.95 %	Refractive index at 20°C 1.422 - 1.426	Water content (K.F.) <= 50 mg/Kg
Non volatile residue <= 10 mg/Kg	Colour <= 10 Hazen	Stabilizer (Amylene) 30 - 60 mg/Kg
Free acid (as HCl) <= 3 mg/Kg	Carbon tetrachloride <= 20 mg/Kg	Chloroform <= 50 mg/Kg

Code	Size	Packaging	Notes
P02910A10	ml 200	Bottle with sept	with septum
P02910AT10	ml 200	Bottle with sept	with septum and molecular sieves
P02910A16	ml 1000	Glass bottle	
P02910AT16	ml 1000	Glass bottle	
P02910A21	ml 2500	Glass bottle	
P02910A48	l 25	Metal drum	

For further information on above products, see following product/application section(s)

Anhydrous solvents (p. 27)

## RS-Anhydrous-for analysis-Stabilized with ethanol

sds

Assay (GC) (without stabilizer) >= 99.95 %	Refractive index at 20°C 1.422 - 1.426	Water content (K.F.) <= 50 mg/Kg
Non volatile residue <= 10 mg/Kg	Colour <= 10 Hazen	Stabilizer (Ethanol) 0.1 - 0.4 % m/m
Free acid (as HCl) <= 3 mg/Kg	Carbon tetrachloride <= 20 mg/Kg	Chloroform <= 40 mg/Kg

Code	Size	Packaging	Notes
P02910E10	ml 200	Bottle with sept	with septum
P02910E16	ml 1000	Glass bottle	
P02910E21	ml 2500	Glass bottle	

For further information on above products, see following product/application section(s)

Anhydrous solvents (p. 27)

## RS-ATRASOL-For analysis of volatile traces-Stabilized with amylene

sds

Assay (GC) >= 99.95 %	Refractive index at 20°C 1.422 - 1.426	Water content (K.F.) <= 100 mg/Kg
Colour <= 10 Hazen	Free acid (as HCl) <= 5 mg/Kg	Chloroform <= 50 mg/Kg
Non volatile residue <= 3 mg/Kg	Carbon tetrachloride <= 20 mg/Kg	Stabilizer (Amylene) 30 - 60 mg/Kg
GC ( FID ) - NC Atrasol Conform	GC-ECD.Individual peak (Lindane) <= 2 ng/l	Retention time trichlorobenzene to mirex -
GC-FID.Individ. peak (hexadecane) <= 5 µg/l	Retention time range over toluène -	

Code	Size	Packaging
P02932A16	ml 1000	Glass bottle
P02932A21	ml 2500	Glass bottle

For further information on above products, see following product/application section(s)

Special products for environmental analysis (p. 81)



## Dichloromethane - Special Grade

## RS-ATRASOL-For analysis of volatile traces-Stabilized with ethanol

sds

Assay (GC) (without stabilizer) >= 99.95 %	Refractive index at 20°C 1.422 - 1.426	Water content (K.F.) <= 100 mg/Kg
Colour <= 10 Hazen	Free acid (as HCl) <= 5 mg/Kg	Chloroform <= 40 mg/Kg
Non volatile residue <= 3 mg/Kg	Carbon tetrachloride <= 20 mg/Kg	Stabilizer (Ethanol) 0.1 - 0.4 % m/m
GC ( FID ) - NC Atrasol Conform	GC-ECD.Individual peak (Lindane) <= 2 ng/l	<b>Retention time trichlorobenzene to mirex -</b>
GC-FID.Individ. peak (hexadecane) <= 5 µg/l	<b>Retention time range over toluène -</b>	

Code	Size	Packaging
P02932E16	ml 1000	Glass bottle
P02932E21	ml 2500	Glass bottle

For further information on above products, see following product/application section(s)  
Special products for environmental analysis (p. 81)

## RS-For HPLC-Isocratic Grade-Stabilized with amylene

sds

Assay (GC) >= 99.9 %	Refractive index at 20°C 1.422 - 1.426	Water content (K.F.) <= 100 mg/Kg
Non volatile residue <= 5 mg/Kg	Colour <= 10 Hazen	Stabilizer (Amylene) 30 - 60 mg/Kg
UV transmittance at 240 nm >= 60 %	UV transmittance at 250 nm >= 92 %	UV transmittance at 255 nm >= 96 %
Free acid (as HCl) <= 5 mg/Kg		

Code	Size	Packaging
P02937A16	ml 1000	Glass bottle
P02937A21	ml 2500	Glass bottle

For further information on above products, see following product/application section(s)  
Chromatography (p. 34)

## RS-For HPLC-Isocratic Grade-Stabilized with amylene

CARLO ERBA  
Quality since 1938

Assay (GLC) >=99.8 %	Description Clear colourless liquid	Density at 20° C 1.322 + 1.328
Refractive index at 20° 1.4214 + 1.4274	Boiling point 39.6 + 40.1 ° C	Acidity or alkalinity <=0.0001 meq/g
Water (K.F.) <=200 ppm	Residue on evaporation <=2 ppm	<b>U.V. Transmittance -</b>
at 240 nm >=63 %	at 250 nm >=96 %	at 260 nm >=99 %
at 270 nm >=99 %	at 280 nm >=99 %	

Code	Size	Packaging
412621	ml 1000	Glass bottle
412622	ml 2500	Glass bottle

For further information on above products, see following product/application section(s)  
Chromatography (p. 34)

## RS-For HPLC-Isocratic Grade-Stabilized with ethanol

sds

Assay (GC) (without stabilizer) >= 99.9 %	Refractive index at 20°C 1.422 - 1.426	Water content (K.F.) <= 100 mg/Kg
Colour <= 10 Hazen	Non volatile residue <= 5 mg/Kg	Colour <= 10 Hazen
Stabilizer (Ethanol) 0.1 - 0.4 % m/m	Free acid (as HCl) <= 5 mg/Kg	Non volatile residue <= 5 mg/Kg
Stabilizer (Ethanol) 0.1 - 0.4 % m/m	UV transmittance at 240 nm >= 60 %	UV transmittance at 250 nm >= 92 %
GC-ECD.Individual peak (Lindane) <= 3 ng/l	<b>Retention time trichlorobenzene to mirex -</b>	UV transmittance at 255 nm >= 96 %
Free acid (as HCl) <= 5 mg/Kg	GC-NPD.Individual peak (Ethylparathion) <= 3 ng/l	<b>Retention time Atrazin to Coumaphos -</b>

Code	Size	Packaging
P02937E16	ml 1000	Glass bottle
P02937E21	ml 2500	Glass bottle

For further information on above products, see following product/application section(s)  
Chromatography (p. 34)

## RS-For optical spectroscopy-Stabilized with amylene

CARLO ERBA  
Quality since 1938

Assay (GLC) >=99.8 %	Description Clear colourless liquid	Colour (APHA) <=10
Identification (I.R.) Positive	Density at 20° C 1.322 + 1.328	Refractive index at 20° 1.4214 + 1.4274
Boiling point 39.6 + 40.1 ° C	Water (K.F.) <=200 ppm	Residue on evaporation <=5 ppm
Acidity <=0.0005 meq/g	Alcalinity <=0.0002 meq/g	<b>Fluorescence -</b>
at 254 nm <=2 ppb	at 365 nm <=2 ppb	<b>U.V. Transmittance -</b>
at 235 nm >=35 %	at 240 nm >=70 %	at 245 nm >=90 %
at 250 nm >=95 %	at 260 nm >=99 %	

Code	Size	Packaging
442371	ml 1000	Glass bottle

For further information on above products, see following product/application section(s)  
Solvents for spectroscopy (p. 68)

## RS-For preparative HPLC-Stabilized with amylene

sds

Assay (GC) >= 99.9 %	Refractive index at 20°C 1.422 - 1.426	Water content (K.F.) <= 100 mg/Kg
Non volatile residue <= 5 mg/Kg	Colour <= 10 Hazen	Stabilizer (Amylene) 30 - 60 mg/Kg
UV transmittance at 240 nm >= 50 %	UV transmittance at 260 nm >= 96 %	Free acid (as HCl) <= 5 mg/Kg

Code	Size	Packaging
P02937AP21	ml 2500	Glass bottle

## Dichloromethane - Special Grade

## RS-For preparative HPLC-Stabilized with amylene



Assay (GLC) >=99.5 %	Description Clear colourless liquid	Density at 20° C 1.322 + 1.328
Refractive index at 20° 1.4214 + 1.4274	Boiling point 39.6 + 40.1 ° C	Water (K.F.) <=500 ppm
Residue on evaporation <=5 ppm at 240 nm >=50 %	Alcalinity <=0.0002 meq/g at 260 nm >=98 %	<b>U.V. Transmittance -</b> Amylene 30 + 50 ppm

Code	Size	Packaging
463281	ml 2500	Glass bottle

For further information on above products, see following product/application section(s)  
Chromatography (p. 34)

## RS-For preparative HPLC-Stabilized with ethanol



Assay (GC) (without stabilizer) >= 99.9 %	Refractive index at 20°C 1.422 - 1.426	Water content (K.F.) <= 100 mg/Kg
Non volatile residue <= 5 mg/Kg	Colour <= 10 Hazen	Stabilizer (Ethanol) 0.1 - 0.4 % m/m
UV transmittance at 240 nm >= 50 %	UV transmittance at 260 nm >= 96 %	Free acid (as HCl) <= 5 mg/Kg

Code	Size	Packaging
P02937EP21	ml 2500	Glass bottle

## RS-For residual pesticides analysis-Stabilized with amylene



Assay (GLC) >=99.8 %	Description Clear colourless liquid	Density at 20° C 1.322 + 1.328
Water (K.F.) <=200 ppm	Residue on evaporation <=2 ppm	GC-ECD (Lindano) <=5 ng/l
GC_NPD (Parathion) <=10 ng/l	GC-FID Conform	

Code	Size	Packaging
442381	ml 1000	Glass bottle
442383	ml 2500	Glass bottle

For further information on above products, see following product/application section(s)  
Special products for environmental analysis (p. 81)

## RS-PESTIPUR-for pesticide analysis-Stabilized with amylene



Assay (GC) >= 99.9 %	Refractive index at 20°C 1.422 - 1.426	Water content (K.F.) <= 100 mg/Kg
Colour <= 10 Hazen	Stabilizer (Amylene) 30 - 60 mg/Kg	Free acid (as HCl) <= 5 mg/Kg
Non volatile residue <= 5 mg/Kg	GC-ECD.Individual peak (Lindane) <= 3 ng/l	<b>Retention time trichlorobenzene to mirex -</b>
GC-NPD.Individual peak (Ethylparathion) <= 3 ng/l	<b>Retention time Atrazin to Coumaphos -</b>	

Code	Size	Packaging
P02922A16	ml 1000	Glass bottle
P02922A21	ml 2500	Glass bottle

## RS-PESTIPUR-for pesticide analysis-Stabilized with ethanol



Code	Size	Packaging
P02922E16	ml 1000	Glass bottle
P02922E21	ml 2500	Glass bottle

## RS-PLUS-for residual pesticide analysis-Stabilized with ethanol



Code	Size	Packaging
442261	ml 1000	Glass bottle
442262	ml 2500	Glass bottle

For further information on above products, see following product/application section(s)  
Special products for environmental analysis (p. 81)

## RS-PLUS-for residual pesticide analysis-Stabilized with amylene



Assay (GLC) >= 99.9 %	Description Clear liquid	Colour <= 10 hazen
Water <= 0.01 %	Not volatile residue <= 5 mg/kg	Free acid (as HCl) <= 5 mg/kg
GC-ECD (Lindane standard) <= 3 ng/l	GC-NPD (Ethylparathion standard) <= 3 ng/l	

Code	Size	Packaging
442291	ml 1000	Glass bottle
442292	ml 2500	Glass bottle

For further information on above products, see following product/application section(s)  
Special products for environmental analysis (p. 81)

## Dichloromethane - Special Grade

## RS-RSE For electronic use-ERBATRON-Stabilized with amylene



Assay (GLC) >=99.5 %	Description Clear liquid	Colour (APHA) <=10
Density at 20° C 1.322 ± 1.328	Boiling point 39.6 ± 40.1 ° C	Resistivity >=1 Mohm.cm
Water (K.F.) <=100 ppm	Residue on evaporation <=5 ppm	Acidity (HCl) <=10 ppm
Alcalinity (NH3) <=1 ppm	Chloride <=0.5 ppm	Free chlorine <=0.2 ppm
Phosphate <=0.5 ppm	Heavy metals (Pb) <=0.1 ppm	Ag <=0.02 ppm
Al <=0.05 ppm	As <=0.01 ppm	Au <=0.05 ppm
B <=0.01 ppm	Ba <=0.1 ppm	Be <=0.02 ppm
Bi <=0.02 ppm	Ca <=0.2 ppm	Cd <=0.01 ppm
Co <=0.01 ppm	Cr <=0.01 ppm	Cu <=0.01 ppm
Fe <=0.1 ppm	Ga <=0.02 ppm	In <=0.02 ppm
K <=0.1 ppm	Li <=0.02 ppm	Mg <=0.1 ppm
Mn <=0.01 ppm	Mo <=0.05 ppm	Na <=0.2 ppm
Ni <=0.01 ppm	Pb <=0.02 ppm	Pt <=0.05 ppm
Sb <=0.01 ppm	Sn <=0.02 ppm	Sr <=0.02 ppm
Ti <=0.05 ppm	Tl <=0.05 ppm	V <=0.05 ppm
Zn <=0.05 ppm	Zr <=0.05 ppm	

Code	Size	Packaging
463161	ml 2500	Glass bottle
463164	kg 30	Glass-polystyrene container

## RS-SPECTROSOL-for optical spectroscopy-Stabilized with amylene



Assay (GC) >= 99.9 %	Assay (GC) (without stabilizer) >= 99.9 %	Refractive index at 20°C 1.422 - 1.426
Water content (K.F.) <= 100 mg/Kg	Non volatile residue <= 5 mg/Kg	Colour <= 10 Hazen
Stabilizer (Ethanol) 0.1 - 0.4 % m/m	Stabilizer (Amylene) 30 - 60 mg/Kg	UV transmittance at 230 nm >= 5 %
UV transmittance at 240 nm >= 70 %	UV transmittance at 250 nm >= 95 %	UV transmittance at 255 nm >= 98 %
Free acid (as HCl) <= 5 mg/Kg		

Code	Size	Packaging
P02927A16	ml 1000	Glass bottle
P02927A21	ml 2500	Glass bottle

For further information on above products, see following product/application section(s)  
Solvents for spectroscopy (p. 68)

## RS-SPECTROSOL-for optical spectroscopy-Stabilized with ethanol



Code	Size	Packaging
P02927E16	ml 1000	Glass bottle

For further information on above products, see following product/application section(s)  
Solvents for spectroscopy (p. 68)

## Dichloromethane - Pharmaceutical Grade

## RPH-According to pharmacopoeia: NF-Stabilized with amylene



Assay (GLC) >= 99.0 %	Description Clear colourless liquid	Free chlorine Conform USP-NF
Density at 25° C 1.318 ± 1.322	Water (K.F.) <= 200 ppm	Residue on evaporation <= 20 ppm
Acidity <= 10 ppm	Heavy metals (Pb) <= 1 ppm	Amylene 30 + 50 ppm
Origin (BSE/TSE) Synthesis		

Code	Size	Packaging
337331	ml 1000	Glass bottle
337333	ml 2500	Glass bottle
337338	kg 36	Metal drum

## RPH-According to pharmacopoeia: Ph.Eur.-Stabilized with ethanol



Assay (GLC) >= 99 %	Description Conform Ph.Eur.	Appearance of solution Clear colourless liquid Ph.Eur.
Density at 20° C 1.320 ± 1.332	Indice di rifraz. 1.423 + 1.425	Acidity Conform Ph.Eur.
Residue on evaporation <= 20 ppm	Water (K.F.) <= 0.05 %	Free chlorine Conform Ph.Eur.
Heavy metals (Pb) <= 1 ppm	Ethanol <= 2.0 %	Amylene <= 0.03 %
Related compounds <= 0.1 %		

Code	Size	Packaging
525320	ml 2500	Glass bottle

## Dichloromethane - Technical Grade

## PS-Pure-for synthesis-Stabilized with amylene



Assay (GC) >= 99.95 %	Refractive index at 20°C 1.422 - 1.426	Water content (K.F.) <= 100 mg/Kg
Non volatile residue <= 20 mg/Kg	Colour <= 10 Hazen	Stabilizer (Amylene) 30 - 60 mg/Kg
Free acid (as HCl) <= 5 mg/Kg		

Code	Size	Packaging
P02902A29	ml 5000	Plastic drum
P02902A40	l 10	Plastic drum
P02902A48	l 25	Metal drum
P02902A68	l 200	Metal drum

## Dichloromethane - Technical Grade

## PS-Pure-for synthesis-Stabilized with ethanol

sds

Assay (GC) (without stabilizer) >= 99.95 %	Refractive index at 20°C 1.422 - 1.426	Water content (K.F.) <= 100 mg/Kg
Non volatile residue <= 20 mg/Kg	Colour <= 10 Hazen	Stabilizer (Ethanol) 0.1 - 0.4 % m/m
Free acid (as HCl) <= 5 mg/Kg		

Code	Size	Packaging
P02902E21	ml 2500	Glass bottle
P02902E29	ml 5000	Plastic drum
P02902E40	l 10	Plastic drum
P02902E48	l 25	Metal drum
P02902E68	l 200	Metal drum

## RE-Pure-stabilized with amylene

CARLO ERBA  
Quality since 1874

Assay (GLC) >= 99.5 %	Description Clear colourless liquid	Colour <= 10 APHA
Density at 20°C 1.320 + 1.330	Refractive index at 20°C 1.4194 + 1.4294	Boiling point 39.1 + 40.6 °C
Acidity (HCl) <= 10 ppm	Residue on evaporation <= 20 ppm	Water (K.F.) <= 300 ppm
Amylene # 50 ppm		

Code	Size	Packaging
528461	ml 5000	Metal tank
528462	l 200	Metal drum

## RE-Pure-stabilized with ethanol

CARLO ERBA  
Quality since 1874

Assay (GLC) >=99.5 %	Description Clear colourless liquid	Colour <10 APHA
Density at 20°C 1.32 + 1.33	Refractive index at 20°C 1.4194 + 1.4294	Boiling point 39.0 + 40.3 °C
Acidity (hydrochloric acid) <=10 ppm	Residue on evaporation <=20 ppm	Water (K.F.) <= 300 ppm
Alcohol and ether miscibility Complete	Ethanol (stab) ~0.2 %	

Code	Size	Packaging
528372	ml 5000	Metal tank
528371	l 200	Metal drum

## RE-Pure-Stabilized with cyclohexane

CARLO ERBA  
Quality since 1874

Assay (GLC) >= 99.5 %	Description Clear colourless liquid	Colour <= 10 APHA
Density at 20°C 1.320 + 1.330	Refractive index at 20°C 1.4194 + 1.4294	Boiling point 39.0 + 40.5 °C
Acidity <= 1 %	Residue on evaporation <= 5 ppm	Water (K.F.) <= 500 ppm
Methyl alcohol <= 500 ppm	Ethyl alcohol <= 500 ppm	Chloroform <= 1 %
Other impurities <= 0.5 %	Cyclohexane 0.0165 + 0.0660 % (v/v)	

Code	Size	Packaging
508370	ml 1000	-
508374	ml 5000	Plastic tank

## Dichloromethane-d2

Dichlorometano-d2 - Dichlorométhane-d2 - Dichlorometano-d2

**CD<sub>2</sub>Cl<sub>2</sub>**  
Atomic weight: 86,950  
CAS N: 1665-00-5  
EEC N: 200-838-9

**Transport classification**  
ONU n. 1593  
Transport class: 6.1  
Packaging group: III



R: 40  
S: 23-24/25-36/37

## Dichloromethane-d2 - Special Grade

## RS-For NMR spectroscopy

sds

Code	Size	Packaging	Notes
P5334A	ml 10	Ampoule	Isotopic purity 99,60%
P5335	ml 25	Glass bottle	Isotopic purity 99,60%
P5330	10 x ml 0,6	Ampoule	Isotopic purity 99,60%
P5339	10 x ml 0,75	Ampoule	Isotopic purity 99,60%

For further information on above products, see following product/application section(s)  
NMR Spectroscopy (p. 65)

## 2,6-Dichlorophenolindophenol sodium salt

2,6-Dichlorofenolindofenolo sale sodico - 2,6-Dichlorophénolindophénol sel de sodium - 2,6-Dichlorofenol-indofenol sal sódica

**NaOC<sub>6</sub>H<sub>3</sub>N: C<sub>6</sub>H<sub>3</sub>(Cl<sub>2</sub>):0.5H<sub>2</sub>O**  
Atomic weight: 326,09  
CAS N: 620-45-1  
EEC N: 210-640-4

## 2,6-Dichlorophenolindophenol sodium salt - Analytical Grade

## RPE-For analysis


CARLO ERBA  
Quality since 1874

Description Dark green powder	Colouring interferences Conform	Loss on drying 120° C <=12 %
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Code	Size	Packaging
442508	g 5	Glass jar

For further information on above products, see following product/application section(s)  
Indicators (p. 50)

## N,N'-Dicyclohexylcarbodiimide

*N,N'*-Dicioesilcarbodiimide - *N,N'*-Dicyclohexylcarbodiimide - *N,N'*-DiciohexilcarbodiimidaC<sub>12</sub>H<sub>22</sub>N<sub>2</sub>C<sub>2</sub>N<sub>2</sub>C<sub>12</sub>H<sub>22</sub>  
CAS N: 538-75-0  
EEC N: 208-704-1Transport classification  
ONU n. 1759  
Transport class: 8  
Packaging group: III  
R: 22-24-41-43  
S: 24-26-37/39-45A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
M  
N  
O  
P  
Q  
R  
S  
T  
U  
V  
W  
X  
Y  
Z


## N,N'-Dicyclohexylcarbodiimide - Analytical Grade

## RPE-For analysis

Assay (ex nitrogen) 99 + 100 % Description Whitish or yellowish crystals Melting point 33.0 + 35.0 ° C  
Residue on ignition <=100 ppm

Code	Size	Packaging
442175	g 10	Glass jar

## Diethanolamine

*Dietanolamina* - *Diéthanolamine* - *Dietanolamina*(CH<sub>2</sub>OHCH<sub>2</sub>)<sub>2</sub>NH  
Atomic weight: 105,14  
CAS N: 111-42-2  
EEC N: 203-868-0  
R: 22-38-41-48/22  
S: 26-36/37/39-46

## Diethanolamine - Analytical Grade

## RPE-For analysis

Assay (alkalimetric) >=99 % Assay (GLC) >=99 % Description Clear colourless liquid  
Water miscibility Conform Alcohol miscibility complete Density at 30° C 1.085 + 1.091  
Refract. index at 30° C 1.4723 + 1.4783 Melting point 27.8 + 28.3 ° C Water (K.F.) <=0.5 %  
Monoethanolamine <=0.5 % Residue on ignition <=50 ppm Triethanolamine <=0.5 %  
Fe <=1 ppm

Code	Size	Packaging
442554	g 100	Glass bottle
442557	g 1000	Glass bottle
442552	kg 29	Metal drum

## Diethanolamine - Pharmaceutical Grade

## RPH-According to pharmacopoeia: USP-NF

Assay (alkalimetric) 98,5+101,0 % Description Clear colourless liquid Refract. index at 30° C 1,476+1,473  
Water (K.F.) <=0,15 % Triethanolamine <=1,0 % Residue solvents Conform NF  
Origin (BSE/TSE) Synthesis Residual solvents (CPMP/ICH/283/95) Conform

Code	Size	Packaging
337801	kg 220	Metal drum

## Diethoxymethane

*Etilale* - *Ethylal* - *Etilal*CH<sub>3</sub>(OC<sub>2</sub>H<sub>5</sub>)<sub>2</sub>  
Atomic weight: 104,14  
CAS N: 462-95-3  
EEC N: 207-330-6Transport classification  
ONU n. 2373  
Transport class: 3  
Packaging group: II  
  
R: 11-36/38  
S: 7/9-16-33

## Diethoxymethane - Analytical Grade

## RPE-For analysis

Assay (GLC) >=98 % Description Clear colourless liquid Density at 20° C 0.827 + 0.833  
Refractive index at 20° 1.3660 + 1.3760 Boiling point 87.3 + 88.8 ° C Water (K.F.) <=0.1 %  
Residue on evaporation <=50 ppm

Code	Size	Packaging
448005	ml 1000	Glass bottle

## N,N-Diethyl-p-phenylenediamine sulphate

*p-N,N*-Dietilfenilendiammina solfato - *n,n*-Diéthyl-p-phénylènediamine sulfate - *p-N,N*-Dietilfenilendiamonio sulfatoNH<sub>2</sub>C<sub>6</sub>H<sub>4</sub>N(C<sub>2</sub>H<sub>5</sub>)<sub>2</sub>.H<sub>2</sub>SO<sub>4</sub>  
Atomic weight: 262,20  
CAS N: 6283-63-2  
EEC N: 228-500-6Transport classification  
ONU n. 2811  
Transport class: 6.1  
Packaging group: III  
R: 23/24/25  
S: 28-45

## N,N-Diethyl-p-phenylenediamine sulphate - Analytical Grade

## RPE-For analysis

Assay (oxidimetric) >=99 % Description White crystalline powder Loss on drying <=1 %  
Chloride <=200 ppm Residue on ignition <=0.1 % Fe <=200 ppm

Code	Size	Packaging
443341	g 100	Glass jar

## N,N-Diethyl-p-phenylenediamine sulphate - Technical Grade

## N,N-Diethyl-p-phenylenediamine sulphate - Technical Grade

## RE-Pure



Assay (oxidimetric) &gt;=98 % Description White crystalline powder

Code	Size	Packaging
338124	g 100	Glass jar
338121	g 1000	Jar

## Diethyl bromomalonate

Diethylbromomalonato - Diéthyle bromomalonate - Diethylbromomalonato

**C<sub>8</sub>H<sub>10</sub>O<sub>4</sub>Br**  
 Atomic weight: 239,07  
 CAS N: 685-87-0  
 EEC N: 211-683-1

Transport classification  
 ONU n. 1760  
 Transport class: 8  
 Packaging group: III



R: 34  
 S: 24/25-45

## Diethyl bromomalonate - Analytical Grade

## RPE-For analysis



Assay (GLC) >= 90 % Description Clear colourless liquid Density at 20° C 1.419 ± 1.425  
 Boiling point 232.0 ± 236.0 ° C

Code	Size	Packaging
443002	ml 100	Glass bottle

## Diethyl carbonate

Diethylcarbonato - Diéthylcarbonate - Diethylcarbonato

**(C<sub>6</sub>H<sub>10</sub>)<sub>2</sub>CO<sub>3</sub>**  
 Atomic weight: 118,13  
 CAS N: 105-58-8  
 EEC N: 203-311-1

Transport classification  
 ONU n. 2366  
 Transport class: 3  
 Packaging group: III



R: 11-20/21/22  
 S: 7-29

## Diethyl carbonate - Analytical Grade

## RPE-For analysis



Assay (GLC) 99 ± 100 % Description Clear colourless liquid Density at 20° C 0.971 ± 0.979  
 Refractive index at 20° 1.3820 ± 1.3870 Boiling point 125.3 ± 126.8 ° C Water (K.F.) <=500 ppm  
 Residue on evaporation <=20 ppm Acidity (acetic acid) <=100 ppm Chloride <=5 ppm

Code	Size	Packaging
443056	ml 1000	Glass bottle
443051	kg 26	Metal drum

## Diethyl ether

Diétilere - Ether éthylique - Diétilere

**CH<sub>3</sub>CH<sub>2</sub>OCH<sub>2</sub>CH<sub>3</sub>**  
 Atomic weight: 74,124  
 CAS N: 60-29-7  
 EEC N: 200-467-2

Transport classification  
 ONU n. 1155  
 Transport class: 3  
 Transport class: 3.A.11  
 Packaging group: I



R: 12-19-22-66-67  
 S: 9-16-29-33

## Diethyl ether - Analytical Grade

## PA-PUREX-for analysis-Stabilized with BHT



Assay (GC) >= 99.7 % Refractive index at 20°C 1.35 - 1.354 Water content (K.F.) <= 200 mg/Kg  
 Colour <= 10 Hazen Peroxides (as H<sub>2</sub>O<sub>2</sub>) <= 1 mg/Kg Free acid (as CH<sub>3</sub>COOH) <= 30 mg/Kg  
 Ketone and Aldehyde <= 100 mg/kg Methanol <= 200 mg/Kg Stabilizer (ionol) 5 - 7 mg/Kg  
 Matter darkened by H<sub>2</sub>SO<sub>4</sub> <= 10 Hazen Non volatile residue (without stab.) <= 10 mg/Kg

Code	Size	Packaging
P0440508	ml 1000	Aluminium bottle
P0440516	ml 1000	Glass bottle
P0440521	ml 2500	Glass bottle
P0440528	ml 5000	Aluminium can

## RPE-ACS-for analysis-Reag. Ph.Eur.-Reag. USP-not stabilized



Assay (GLC) >=99.0 % Description Clear liquid Colour (APHA) <=10  
 Water (K.F.) <=300 ppm Residue on evaporation <=10 ppm Acidity <=0.0002 meq/g  
 Ethyl alcohol Conform Carbonyl Compounds (CO) <=10 ppm Peroxides (H<sub>2</sub>O<sub>2</sub>) <=1 ppm

Code	Size	Packaging
447534	ml 1000	Glass bottle
447539	ml 5000	Metallic can
447532	kg 20	Metallic can
447531	kg 140	Metal drum

## Diethyl ether - Analytical Grade

## RPE-For analysis-Stabilized with BHT

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
M  
N  
O  
P  
Q  
R  
S  
T  
U  
V  
W  
X  
Y  
Z

Assay (GLC) >=99.8 %	Description Clear liquid	Colour (APHA) <=10
Identification (I.R.) Conform	Foreign odours Conform	Ready carbonizable substances Conform
Density at 20° C 0.714 ± 0.716	Boiling point 34.0 ± 35.0 ° C	Water (K.F.) <=200 ppm
Residue on evaporation <=10 ppm	Acetone <=50 ppm	Acidity (acetic acid) <=5 ppm
Alcalinity (NH3) <=1.4 ppm	Ethyl alcohol <=100 ppm	Methyl alcohol <=200 ppm
Carbonyl Compounds (CO) <=10 ppm	Heavy metals (Pb) <=1 ppm	Peroxides (H2O2) <=1 ppm
Al <=0.5 ppm	Ca <=0.5 ppm	Cd <=0.05 ppm
Co <=0.02 ppm	Cr <=0.02 ppm	Cu <=0.02 ppm
Fe <=0.1 ppm	Mg <=0.1 ppm	Mn <=0.02 ppm
Ni <=0.02 ppm	Pb <=0.05 ppm	Sn <=0.1 ppm
Zn <=0.1 ppm		

Code	Size	Packaging
447521	ml 1000	Glass bottle
447522	ml 5000	Metallic can
447525	kg 20	Metallic can

For further information on above products, see following product/application section(s)  
Microscopy (p. 58)

## Diethyl ether - Special Grade

## RS-Anhydrous-for analysis-Stabilized with BHT



Assay (GC) >= 99.7 %	Refractive index at 20°C 1.35 - 1.354	Water content (K.F.) <= 50 mg/Kg
Colour <= 10 Hazen	Peroxides test (KI at 40%) Conform	Peroxides (as H2O2) <= 1 mg/Kg
Free acid (as CH3COOH) <= 30 mg/Kg	Stabilizer (ionol) 5 - 7 mg/Kg	Ketone and Aldehyde <= 100 mg/kg
Methanol <= 200 mg/Kg	Stabilizer (ionol) 5 - 7 mg/Kg	Matter darkened by H2SO4 <= 10 Hazen
Non volatile residue (without stab.) <= 10 mg/Kg		

Code	Size	Packaging	Notes
P04410T10	ml 200	Bottle with sept	with septum and molecular sieves
P0441008	ml 1000	Aluminium can	
P0441016	ml 1000	Glass bottle	
P04410T16	ml 1000	Glass bottle	
P0441021	ml 2500	Glass bottle	

For further information on above products, see following product/application section(s)  
Anhydrous solvents (p. 27)

## RS-For HPLC-Isocratic Grade-not stabilized



Assay (GC) >= 99.7 %	Refractive index at 20°C 1.35 - 1.354	Water content (K.F.) <= 100 mg/Kg
Colour <= 10 Hazen	Peroxides (as H2O2) <= 60 mg/Kg	UV transmittance at 230 nm >= 45 %
UV transmittance at 250 nm >= 75 %	UV transmittance at 280 nm >= 92 %	UV transmittance at 300 nm >= 98 %
UV transmittance at 220 nm >= 10 %	Non volatile residue <= 5 mg/Kg	Free acid (as CH3COOH) <= 30 mg/Kg

Code	Size	Packaging
P0443716	ml 1000	Glass bottle
P0443721	ml 2500	Glass bottle

For further information on above products, see following product/application section(s)  
Chromatography (p. 34)

## RS-For optical spectroscopy-not stabilized



Assay (GLC) >=99.8 %	Description Clear liquid	Colour (APHA) <=10
Density at 20° C 0.712 ± 0.714	Boiling point 34.4 ± 34.9 ° C	Water (K.F.) <=200 ppm
Residue on evaporation <=5 ppm	Acidity <=0.0005 meq/g	Alcalinity <=0.0002 meq/g
Peroxides (H2O2) <=0.3 ppm	<b>Fluorescence</b> -	at 254 nm <=2 ppb
at 365 nm <=2 ppb	<b>U.V. Transmittance</b> -	at 210 nm >=30 %
at 225 nm >=40 %	at 250 nm >=80 %	at 260 nm >=90 %
at 280 nm >=98 %		

Code	Size	Packaging
447593	ml 1000	Glass bottle

For further information on above products, see following product/application section(s)  
Solvents for spectroscopy (p. 68)

## RS-For residual pesticides analysis-Stabilized with copper



Assay (GLC) >=99.5 %	Description Clear colourless liquid	Density at 20° C >=0.715
Water (K.F.) <=0.25 %	Residue on evaporation <=2 ppm	GC-ECD (Lindano) <=5 ng/l
GC_NPD (Parathion) <=10 ng/l	GC-FID Conform	

Code	Size	Packaging
447671	ml 1000	Glass bottle

For further information on above products, see following product/application section(s)  
Special products for environmental analysis (p. 81)

## RS-PESTIPUR-for pesticide analysis-not stabilized



Assay (GC) >= 99.7 %	Refractive index at 20°C 1.35 - 1.354	Water content (K.F.) <= 200 mg/Kg
Colour <= 10 Hazen	Peroxides (as H2O2) <= 60 mg/Kg	Free acid (as CH3COOH) <= 30 mg/Kg
Non volatile residue <= 5 mg/Kg	GC-ECD.Individual peak (Lindane) <= 3 ng/l	Retention time trichlorobenzene to mirex -

Code	Size	Packaging
P0442216	ml 1000	Glass bottle
P0442221	ml 2500	Glass bottle

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
M  
N  
O  
P  
Q  
R  
S  
T  
U  
V  
W  
X  
Y  
Z

## Diethyl ether - Special Grade

## RS-PLUS-for residual pesticide analysis



Assay (GLC) >= 99.7 %	Description Clear liquid	Colour <= 10 hazen
Water <= 0.02 %	Acidity (acetic acid) <= 30 ppm	Not volatile residue <= 5 ppm
Peroxides (H2O2) <= 60 ppm	GC-ECD (Lindano) <= 3 ng/l	

Code	Size	Packaging
447652	ml 2500	Glass bottle

For further information on above products, see following product/application section(s)

Special products for environmental analysis (p. 81)

## RS-PLUS-for residual pesticide analysis-not stabilized



Assay (GLC) >= 99.7 %	Description Clear liquid	Colour <= 10 hazen
Water <= 0.02 %	Acidity (acetic acid) <= 30 ppm	Not volatile residue <= 5 ppm
Peroxides (H2O2) <= 60 ppm	GC-ECD (Lindano) <= 3 ng/l	

Code	Size	Packaging
447651	ml 1000	Glass bottle

For further information on above products, see following product/application section(s)

Special products for environmental analysis (p. 81)

## RS-SPECTROSOL-for optical spectroscopy-not stabilized



Assay (GC) >= 99.7 %	Refractive index at 20°C 1.35 - 1.354	Water content (K.F.) <= 100 mg/Kg
Colour <= 10 Hazen	Peroxides (as H2O2) <= 60 mg/Kg	UV transmittance at 230 nm >= 45 %
UV transmittance at 250 nm >= 75 %	UV transmittance at 280 nm >= 92 %	UV transmittance at 300 nm >= 98 %
UV transmittance at 220 nm >= 10 %	Non volatile residue <= 5 mg/Kg	Free acid (as CH3COOH) <= 30 mg/Kg

Code	Size	Packaging
P0442716	ml 1000	Glass bottle

For further information on above products, see following product/application section(s)

Solvents for spectroscopy (p. 68)

## Diethyl ether - Pharmaceutical Grade

## RPH-According to pharmacopoeia: Ph.Eur.-BP-not stabilized



Description Clear colourless liquid	Acidity Conform Ph.Eur.	Aldehydes Conform Ph.Eur.
Foreign odours Conform Ph.Eur.	Peroxide Conform Ph.Eur.	Density at 20° C 0.714 ± 0.716
Boiling point 34.0 ± 35.0 ° C	Water (K.F.) <=0.2 %	Non volat.substances <=20 ppm p/v

Code	Size	Packaging
340731	40 x g 100	Glass bottle

## RPH-According to pharmacopoeia: Ph.Eur.-BP-Stabilized with BHT



Description Clear colourless liquid	Acidity Conform Ph.Eur.	Aldehydes Conform Ph.Eur.
Foreign odours Conform Ph.Eur.	Peroxide Conform Ph.Eur.	Density at 20° C 0.714 ± 0.716
Boiling point 34.0 ± 35.0 ° C	Water (K.F.) <=0.2 %	Non volat.substances <=20 ppm p/v
Origin (BSE/TSE) Synthesis	Residual solvents (CPMP/ICH/283/95) Conform	

Code	Size	Packaging
340755	ml 100	Bottle
340751	ml 1000	Glass bottle
340752	kg 20	Metallic can
340759	kg 140	Metal drum

## Diethyl ether - Technical Grade

## PS-Pure-for synthesis-Stabilized with BHT



Assay (GC) >= 99.5 %	Refractive index at 20°C 1.35 - 1.354	Water content (K.F.) <= 500 mg/Kg
Colour <= 10 Hazen	Peroxides test (KI at 40%) Conform	Stabilizer (ionol) 5 - 7 mg/Kg

Code	Size	Packaging
P0440228	ml 5000	Aluminium can
P0440248	l 25	Metal drum
P0440268	l 200	Metal drum

## RE-Pure-Stabilized with BHT



Assay (GLC) >=99 %	Description Clear colourless liquid	Density at 20° C 0.710 ± 0.716
Boiling point 34.1 ± 35.1 ° C	Water (K.F.) <=500 ppm	Residue on evaporation <=20 ppm
Acidity (acetic acid) <=20 ppm		

Code	Size	Packaging
340762	kg 20	Metallic can
340765	kg 140	Metal drum
528276	l 25	Drum

## Diethyl malonate

Diethylmalonato - Diéthyle malonate - Dietilo malonato

CH<sub>2</sub>(COOC<sub>2</sub>H<sub>5</sub>)<sub>2</sub>  
 Atomic weight: 160,17  
 CAS N: 105-53-3  
 EEC N: 203-305-9

## Diethyl malonate - Analytical Grade



## Diethyl malonate - Analytical Grade

## RPE-For analysis



Assay (GLC) 99 + 100 %	Description Clear colourless liquid	Alcohol miscibility complete
Diethyl ether miscib. complete	Density at 20° C 1.053 + 1.057	Refractive index at 20° 1.4113 + 1.4173
Boiling point 198.0 + 200.0 ° C	Water (K.F.) <=0.5 %	Residue on evaporation <=20 ppm
Acidity ( Malonic acid) <=500 ppm	Carbonyl Compounds (CO) <=50 ppm	Heavy metals (Pb) <=2 ppm
Fe <=2 ppm		

Code	Size	Packaging
443502	ml 500	Glass bottle

## Diethyl malonate - Technical Grade

## RE-Pure



Assay (GLC) 98 + 100 %	Description Clear yellow liquid	Density at 20° C 1.4093 + 1.4193
Refractive index at 20° 1.4113 + 1.4173	Boiling point 197.8 + 200.3 ° C	Acidity ( Malonic acid) <=500 ppm
Residue on ignition <=0.1 %		

Code	Size	Packaging
338251	ml 1000	Glass bottle
338255	kg 29	Metal drum

## Diethyl oxalate

*Diétile ossalato - Diéthylloxalate - Diétilo oxalato***(COOC<sub>2</sub>H<sub>5</sub>)<sub>2</sub>**Atomic weight: 146,14  
CAS N: 95-92-1  
EEC N: 202-464-1

Transport classification

ONU n. 2525  
Transport class: 6.1  
Packaging group: IIIR: 22-36  
S: 23

## Diethyl oxalate - Analytical Grade

## RPE-For analysis



Assay (GLC) >=99.5 %	Description Clear colourless liquid	Alcohol miscibility complete
Diethyl ether miscib. complete	Density at 20° C 1.076 + 1.080	Refractive index at 20° 1.4051 + 1.4151
Boiling point 184.7 + 186.7 ° C	Water (K.F.) <=500 ppm	Residue on evaporation <=20 ppm
Acidity (Oxalic acid) <=50 ppm	Heavy metals (Pb) <=2 ppm	Fe <=2 ppm

Code	Size	Packaging
443554	ml 1000	Glass bottle
443555	kg 24	Glass-polystyrene container
443557	kg 200	Metal drum

## Diethyl oxalate - Technical Grade

## PS-Pure-for synthesis



Assay (GC) >= 99 %	Free of suspended matter Conform	Refractive index at 20°C 1.408 - 1.412
Water content (K.F.) <= 0.05 % m/m	Colour <= 15 Hazen	Free acid <= 0.05 %
Residue on evaporation <= 0.005 % m/m		

Code	Size	Packaging
P9560268	l 200	Metal drum

## RE-Pure



Assay (GLC) >=99 %	Description Clear colourless liquid	Density at 20° C 1.075 + 1.081
Refractive index at 20° 1.4051 + 1.4151	Boiling point 184.5 + 187.0 ° C	Acidity (Oxalic acid) <=500 ppm
Residue on ignition <=0.1 %		

Code	Size	Packaging
338501	ml 1000	Glass bottle
338505	kg 29	Metal drum

## Diethyl phthalate

*Diétilftalato - Diéthyle phtalate - Diétilo ftalato***C<sub>2</sub>H<sub>4</sub>(COOC<sub>2</sub>H<sub>5</sub>)<sub>2</sub>**Atomic weight: 222,24  
CAS N: 84-66-2  
EEC N: 201-550-6

## Diethyl phthalate - Analytical Grade

## RPE-For analysis



Assay (GLC) >=99 %	Description Clear colourless liquid	Density at 20° C 1.118 + 1.121
Refract.index at 14°C 1.5024 + 1.5074	Water (K.F.) <=0.1 %	Residue on ignition <=100 ppm
Heavy metals (Pb) <=5 ppm		

Code	Size	Packaging
443404	ml 1000	Glass bottle

## Diethyl phthalate - Pharmaceutical Grade

## Diethyl phthalate - Pharmaceutical Grade

## RPH-According to pharmacopoeia: Ph.Eur.-NF-BP



Assay (saponification) 99.0 + 101.0 %	Description Liquido limp. inc. o liev. giallo	Appearance Conform Ph.Eur.
Acidity Conform Ph.Eur.	Related substances(GLC) Conform Ph.Eur.	Density at 20° C 1.118 + 1.121
Refractive index at 20° 1.500 + 1.505	Sulphated ash <=0.1 %	Water (K.F.) <=0.2 %
Origin (BSE/TSE) Synthesis	Residual solvents (CPMP/ICH/283/95) Conform	

Code	Size	Packaging
338115	ml 2500	Glass bottle
338113	kg 30	Glass-polystyrene container

## Diethyl sulphate

Diethylsolfato - Diéthyle sulfate - Dietilo sulfato

**(C<sub>2</sub>H<sub>5</sub>)<sub>2</sub>SO<sub>4</sub>**Atomic weight: 154,19  
CAS N: 64-67-5  
EEC N: 200-589-6

## Transport classification

ONU n. 1594  
Transport class: 6.1  
Packaging group: IIR: 45-46-20/21/22-34  
S: 53-45

## Diethyl sulphate - Analytical Grade

## RPE-For analysis



Assay (GLC) >=99.5 %	Description Clear colourless liquid	Alcohol miscibility complete
Diethyl ether miscib. complete	Density at 20° C 1.174 + 1.180	Refractive index at 20° 1.3974 + 1.4034
Water (K.F.) <=0.1 %	Acidity (H <sub>2</sub> SO <sub>4</sub> ) <=0.1 %	Chloride <=10 ppm
Residue on ignition <=50 ppm		

Code	Size	Packaging
443602	ml 1000	Glass bottle

## Diethyl sulphate - Technical Grade

## RE-Pure



Assay (GLC) 99 + 100 %	Description Clear colourless liquid	Density at 20° C 1.174 + 1.180
Refractive index at 20° 1.3954 + 1.4054	Water (K.F.) <=0.15 %	Acidity (H <sub>2</sub> SO <sub>4</sub> ) <=0.2 %
Residue on ignition <=100 ppm		

Code	Size	Packaging
338492	ml 1000	Glass bottle
338493	kg 60	Polythene-metal drum

## Diethylamine

Diethylammina - Diéthylamine - Dietilamina

**(C<sub>2</sub>H<sub>5</sub>)<sub>2</sub>NH**Atomic weight: 73,14  
CAS N: 109-89-7  
EEC N: 203-716-3

## Transport classification

ONU n. 1154  
Transport class: 3  
Secondary risk: 8  
Packaging group: IIR: 11-20/21/22-35  
S: 3-16-26-29-36/37/39-45

## Diethylamine - Analytical Grade

## RPE-For analysis



Assay (GLC) >=99 %	Description Clear colourless liquid	Density at 20° C 0.708 + 0.712
Refractive index at 20° 1.3840 + 1.3900	Boiling point 55.8 + 56.8 ° C	Residue on evaporation <=50 ppm

Code	Size	Packaging
442756	ml 1000	Glass bottle
442757	kg 16	Drum

## Diethylamine - Technical Grade

## RE-Pure



Assay (GLC) >= 99 %	Description Clear colourless liquid	Refractive index at 20° 1.3840 + 1.3900
Boiling point 55.8 + 56.8 ° C	Water (K.F.) <= 0.2 %	Density at 20° C 0.708 + 0.712

Code	Size	Packaging
337501	ml 1000	Glass bottle

## Diethylene glycol

Glicol dietilenico - Glycol diéthylénique - Glicol dietilénico

**(HOCH<sub>2</sub>CH<sub>2</sub>)<sub>2</sub>OC<sub>2</sub>H<sub>4</sub>O<sub>2</sub>**Atomic weight: 106,12  
CAS N: 111-46-6  
EEC N: 203-872-2R: 22  
S: 46

## Diethylene glycol - Analytical Grade

## Diethylene glycol - Analytical Grade

## RPE-For analysis



Assay (GLC) >=98 %	Description Clear colourless liquid	Density at 20° C 1.115 ± 1.119
Refractive index at 20° 1.4450 ± 1.4500	Boiling point 240 ± 252 ° C	Water (K.F.) <=0.3 %
Residue on ignition <=30 ppm		

Code	Size	Packaging
443255	ml 1000	Glass bottle
443253	ml 2500	Glass bottle
443252	kg 25	Glass-metal/polythene contain.

## Diethylene glycol - Technical Grade

## PS-Pure-for synthesis



Assay (GC) >= 99 %	Refractive index at 20°C 1.445 - 1.449	Water content (K.F.) <= 3000 mg/Kg
Colour <= 10 Hazen		

Code	Size	Packaging
P0320248	l 25	Metal drum

## RE-Pure



Assay (GLC) >=98 %	Description Clear colourless liquid	Density at 20° C 1.112 ± 1.122
Refractive index at 20° 1.4425 ± 1.4525	Boiling point 240 ± 252 ° C	Residue on ignition <=0.1 %

Code	Size	Packaging
346301	ml 1000	Glass bottle
346303	ml 2500	Glass bottle
346304	kg 30	Metallic can

## Diethylene glycol dimethyl ether

Glicol dietilénico dimetilètere - Glycol diéthylénique diméthylether - Glicol dietilénico dimetiléter

**(CH<sub>3</sub>OCH<sub>2</sub>CH<sub>2</sub>)<sub>2</sub>O**  
 Atomic weight: 134,18  
 CAS N: 111-96-6  
 EEC N: 203-924-4

**Transport classification**  
 ONU n. 2810  
 Transport class: 6.1  
 Packaging group: II



R: 60-61-10-19  
 S: 53-45

## Diethylene glycol dimethyl ether - Analytical Grade

## RPE-For analysis



Assay (GLC) >=99 %	Description Clear colourless liquid	Water miscibility Conform
Benzene miscibility complete	Diethyl ether miscib. complete	Density at 20° C 0.942 ± 0.950
Refractive index at 20° 1.4056 ± 1.4096	Boiling point 160.0 ± 162.0 ° C	Water (K.F.) <=0.1 %
Acidity (acetic acid) <=600 ppm	Alcalinity (NH <sub>3</sub> ) <=0.85 ppm	Carbonyl Compounds (CO) <=500 ppm
Heavy metals (Pb) <=2 ppm	Peroxides (H <sub>2</sub> O <sub>2</sub> ) <=250 ppm	Residue on ignition <=20 ppm
Fe <=2 ppm		

Code	Size	Packaging
453861	ml 1000	Glass bottle

## Diethylene glycol dimethyl ether - Technical Grade

## PS-Pure-for synthesis



Assay (GC) >= 99.8 %	Refractive index at 20°C 1.406 - 1.41	Water content (K.F.) <= 500 mg/Kg
Colour <= 10 Hazen		

Code	Size	Packaging
P0410228	ml 5000	Metal tank
P0410248	l 25	Metal drum

## Diethylene glycol monoethyl ether

Glicol dietilénico monoetilètere - Glycol diéthylénique monoéthylether - Glicol dietilénico monoetiléter

**CH<sub>3</sub>CH<sub>2</sub>OCH<sub>2</sub>CH<sub>2</sub>OCH<sub>2</sub>CH<sub>2</sub>OH**  
 Atomic weight: 134,18  
 CAS N: 111-90-0  
 EEC N: 203-919-7



R: 36  
 S: 26

## Diethylene glycol monoethyl ether - Analytical Grade

## RPE-For analysis



Assay (GLC) >=99.5 %	Description Clear colourless liquid	Water miscibility Conform
Benzene miscibility complete	Diethyl ether miscib. complete	Density at 20° C 0.984 ± 0.992
Refractive index at 20° 1.4228 ± 1.4318	Boiling point 200.0 ± 202.0 ° C	Water (K.F.) <=0.1 %
Acidity (acetic acid) <=600 ppm	Alcalinity (NH <sub>4</sub> OH) <=0.85 ppm	Carbonyl Compounds (CO) <=500 ppm
Heavy metals (Pb) <=2 ppm	Peroxides (H <sub>2</sub> O <sub>2</sub> ) <=250 ppm	Residue on ignition <=20 ppm
Fe <=2 ppm		

Code	Size	Packaging
453873	kg 25	Metallic can

## Diethylenetriaminepentacetic acid

Acido dietilentriaminopentacetico - Acide diéthylènetriaminepentacétique - Acido dietilentriaminopentaacético

[(HOOCCH2)2NCH2CH2]3NCH2COOH

Atomic weight: 393,35

CAS N: 67-43-6

EEC N: 200-652-8



R: 36/38

S: 24/25

## Diethylenetriaminepentacetic acid - Analytical Grade

## RPE-For analysis



Assay (acidimetric) &gt;= 98.0 %

Description White crystalline powder

Code	Size	Packaging
405192	g 250	Plastic jar

For the precipitation of complexes: Na2Fe(DPTA), Na2[Cr(DPTA)] e H2[Gd(DPTA)]

## Diethylidinoxalyldihydrazone

Diethylidenoossalilididrazona - Diéthylidénoxalyldihydrazone - Diethylidenoossalilididrazona

CH3CH:NNHCOCONHN:CHCH3

Atomic weight: 170,17

CAS N: 18658-79-2

EEC N: 242-483-2



R: 20/21/22

## Diethylidinoxalyldihydrazone - Analytical Grade

## RPE-For analysis



Assay (ex nitrogen) &gt;=98 %

Description White powder

Copper sensitivity &lt;=0.25 µg/ml

Code	Size	Packaging
443423	g 10	Glass jar

## Differentiator for kit Gram

Differenziatore per kit Gram-Hucker - Différenciateur pour kit de Gram-Hucker - Diferenciador para kit Gram-Hucker

Transport classification

ONU n. 1993

Transport class: 3

Packaging group: II



R: 11

S: 16

## Differentiator for kit Gram - Special Grade

## RS-For microscopy



Description Liquido incolore

Code	Size	Packaging
444131	ml 250	Plastic bottle

For bacteriology. It contains ethanol

For further information on above products, see following product/application section(s)

Microscopy (p. 58)

## Digitonin

Digitonina - Digitonine - Digitonina

C28H42O22

Atomic weight: 1229,34

CAS N: 11024-24-1

EEC N: 234-255-6

Transport classification

ONU n. 1544

Transport class: 6.1

Packaging group: I



R: 23/24/25

S: 28-45

## Digitonin - Analytical Grade

## RPE-For analysis



Description White crystalline powder

Water (K.F.) &lt;= 6 %

Residue on calcination &lt;= 0.3 %

Potere rotat. spec. (C=10; CH3COOH 75%) -47 + -49 ° (s.s.)

Code	Size	Packaging
444207	g 1	Glass jar

## 3,4-Dihydro-2H-pyran

Diidropirano - Dihydropyrane - Dihidropirano

OCH:CHCH2CH2CH2

Atomic weight: 84,12

CAS N: 110-87-2

EEC N: 203-810-4

Transport classification

ONU n. 2376

Transport class: 3

Packaging group: II



R: 11-19-36/37/38

S: 16-33

## 3,4-Dihydro-2H-pyran - Analytical Grade

## RPE-For analysis



Assay (GLC) &gt;= 98.5 %

Description Yellow clear liquid

Refractive index at 20° 1.4405 + 1.4425

Water (K.F.) &lt;= 0.3 %

Code	Size	Packaging
444222	ml 25	Glass bottle

## Diisopropylamine

Diisopropilamina - Diisopropylamine - Diisopropilamina

 $[(CH_3)_2CH]_2NH$ 

Atomic weight: 101,19

CAS N: 108-18-9

EEC N: 203-558-5

## Transport classification

ONU n. 1158

Transport class: 3

Secondary risk: 8

Packaging group: II

R: 11-20/22-34  
S: 16-26-36/37/39-45A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
M  
N  
O  
P  
Q  
R  
S  
T  
U  
V  
W  
X  
Y  
Z

## Diisopropylamine - Analytical Grade

## RPE-For analysis

Assay (GLC) $\geq 99\%$	Description Clear colourless liquid	Density at 20° C 0.711 $\pm$ 0.721
Refractive index at 20° 1.3885 $\pm$ 1.3945	Boiling point 83.0 $\pm$ 85.0 °C	Residue on evaporation $\leq 100$ ppm

Code	Size	Packaging
445981	ml 250	Glass bottle

## Diisopropylamine - Technical Grade

## PS-Pure-for synthesis

Assay (GC) $\geq 99\%$	Refractive index at 20°C 1.39 - 1.394	Water content (K.F.) $\leq 2000$ mg/Kg
Colour $\leq 10$ Hazen		

Code	Size	Packaging
P0980216	ml 1000	Glass bottle

## Diisopropylether

Diisopropiletere - Ether isopropilique - Eter di-isopropilico

 $[(CH_3)_2CH]_2O$ 

Atomic weight: 102,18

CAS N: 108-20-3

EEC N: 203-560-6

## Transport classification

ONU n. 1159

Transport class: 3

Packaging group: II

R: 11-19-66-67  
S: 9-16-29-33

## Diisopropylether - Analytical Grade

## PA-PUREX-for analysis

Assay (GC) $\geq 98.5\%$	Refractive index at 20°C 1.366 - 1.37	Water content (K.F.) $\leq 500$ mg/Kg
Colour $\leq 10$ Hazen	Peroxides (as H <sub>2</sub> O <sub>2</sub> ) $\leq 10$ mg/Kg	Stabilizer (ionol) 20 - 200 mg/Kg
Non volatile residue (without stab.) $\leq 10$ mg/Kg	Free acid (as CH <sub>3</sub> COOH) $\leq 50$ mg/Kg	

Code	Size	Packaging
P0430528	ml 5000	Plastic drum

## RPE-For analysis

Assay (GLC) $\geq 99\%$	Description Clear colourless liquid	Identification (I.R.) Conform
Alcohol miscibility complete	Chloroform miscibility complete	Diethyl ether miscib. complete
Density at 20° C 0.719 $\pm$ 0.729	Boiling point 66.5 $\pm$ 69.5 °C	Water (K.F.) $\leq 0.1\%$
Peroxides (H <sub>2</sub> O <sub>2</sub> ) $\leq 0.4$ ppm		

Code	Size	Packaging
447932	ml 1000	Glass bottle
447935	kg 21	Metallic can

## Diisopropylether - Special Grade

## RS-Anhydrous-for analysis

Assay (GC) $\geq 98.5\%$	Refractive index at 20°C 1.366 - 1.37	Water content (K.F.) $\leq 50$ mg/Kg
Colour $\leq 10$ Hazen	Peroxides (as H <sub>2</sub> O <sub>2</sub> ) $\leq 10$ mg/Kg	Stabilizer (ionol) 20 - 200 mg/Kg
Non volatile residue (without stab.) $\leq 10$ mg/Kg	Free acid (as CH <sub>3</sub> COOH) $\leq 50$ mg/Kg	

Code	Size	Packaging
P0431016	ml 1000	Glass bottle

For further information on above products, see following product/application section(s)

Anhydrous solvents (p. 27)

## RS-For HPLC-Isocratic Grade

Assay (GC) $\geq 98.5\%$	Refractive index at 20°C 1.366 - 1.37	Water content (K.F.) $\leq 200$ mg/Kg
Colour $\leq 10$ Hazen	Peroxides (as H <sub>2</sub> O <sub>2</sub> ) $\leq 60$ mg/Kg	UV transmittance at 254 nm $\geq 45\%$
UV transmittance at 280 nm $\geq 85\%$	Non volatile residue $\leq 5$ mg/Kg	Free acid (as CH <sub>3</sub> COOH) $\leq 50$ mg/Kg

Code	Size	Packaging
P0433721	ml 2500	Glass bottle

For further information on above products, see following product/application section(s)

Chromatography (p. 34)

## RS-PESTIPUR-for pesticide analysis

Assay (GC) $\geq 98.5\%$	Refractive index at 20°C 1.366 - 1.37	Water content (K.F.) $\leq 200$ mg/Kg
Colour $\leq 10$ Hazen	Peroxides (as H <sub>2</sub> O <sub>2</sub> ) $\leq 60$ mg/Kg	Non volatile residue $\leq 5$ mg/Kg
Free acid (as CH <sub>3</sub> COOH) $\leq 50$ mg/Kg	GC-ECD. Individual peak (Lindane) $\leq 3$ ng/l	Retention time trichlorobenzene to mirex -

Code	Size	Packaging
P0432221	ml 2500	Glass bottle

## Diisopropylether - Technical Grade

## Diisopropylether - Technical Grade

## PS-Pure-for synthesis

sds

Assay (GC) >= 98.5 %	Refractive index at 20°C 1.366 - 1.37	Water content (K.F.) <= 1000 mg/Kg
Colour <= 10 Hazen	Peroxides (as H <sub>2</sub> O <sub>2</sub> ) <= 50 mg/Kg	Stabilizer (ionol) 20 - 200 mg/Kg
Non volatile residue (without stab.) <= 50 mg/Kg	Free acid (as CH <sub>3</sub> COOH) <= 50 mg/Kg	


Code	Size	Packaging
P0430228	ml 5000	Plastic drum
P0430240	l 10	Metal tank
P0430248	l 25	Metal drum
P0430268	l 200	Metal drum
P0433968	l 200	Metal drum with molecular sieves

## Diisopropylethylamine

*Diisopropyletilamina - Diisopropyléthylamine - Disopropiletilamina*

**C<sub>8</sub>H<sub>19</sub>N**  
 Atomic weight: 129,240  
 CAS N: 110-96-3  
 EEC N: 203-819-3

**Transport classification**  
 ONU n. 2733  
 Transport class: 3  
 Packaging group: II

  
 R: 11-20/22-34  
 S: 16-26-36/37/39-45

## Diisopropylethylamine - Special Grade

## RS-For peptide synthesis

sds

Assay (GC) >= 98 %	Refractive index at 20°C 1.411 - 1.415	Water content (K.F.) <= 500 mg/Kg
Colour <= 10 Hazen	Keyser Test Conform	Non volatile residue <= 10 mg/Kg

Code	Size	Packaging
P0403506	ml 250	Glass bottle
P0403516	ml 1000	Glass bottle

## Diisopropylethylamine - Technical Grade

## PS-Pure-for synthesis

sds

Assay (GC) >= 98 %	Refractive index at 20°C 1.411 - 1.415	Water content (K.F.) <= 2000 mg/Kg
Colour <= 40 Hazen		

Code	Size	Packaging
P0400272	ml 200	Bottle with sept
P0400252	l 30	Plastic drum

## Dimedone

*Dimedone - Dimédon - Dimedona*

**(CH<sub>3</sub>)<sub>2</sub>CCH<sub>2</sub>COCH<sub>2</sub>COCH<sub>2</sub>**  
 Atomic weight: 140,18  
 CAS N: 126-81-8  
 EEC N: 204-804-4

## Dimedone - Analytical Grade

## RPE-For analysis

CARLO ERBA  
Quality since 1928

Assay (GLC) >= 98.5 %	Description White crystalline powder	Melting point 147 + 150 ° C
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Code	Size	Packaging
444252	g 25	Glass jar

For the analysis of aldehydes

## 1,2-Dimethoxyethane

*1,2-Dimetossietano - Glycol éthylique diméthyléther - 1,2-Dimetoxietano*

**CH<sub>3</sub>OCH<sub>2</sub>CH<sub>2</sub>OCH<sub>3</sub>**  
 Atomic weight: 90,120  
 CAS N: 110-71-4  
 EEC N: 203-794-9

**Transport classification**  
 ONU n. 2252  
 Transport class: 3  
 Packaging group: II

  
 R: 60-61-10-19  
 S: 53-45

## 1,2-Dimethoxyethane - Technical Grade

## PS-Pure-for synthesis

sds

Assay (GC) >= 99.7 %	Refractive index at 20°C 1.377 - 1.381	Water content (K.F.) <= 200 mg/Kg
Non volatile residue <= 10 mg/Kg	Colour <= 10 Hazen	Free acid (as CH <sub>3</sub> COOH) <= 150 mg/Kg

Code	Size	Packaging
P0301016	ml 1000	Glass bottle
P03010T16	ml 1000	Glass bottle with molecular sieves
P0300221	ml 2500	Glass bottle
P0300268	l 200	Metal drum

## N,N-Dimethyl-p-phenylenediamine oxalate

*p-N,N-Dimetilfenilendiammina ossalato - p-n,n-Diméthylphénylènediamine oxalate - p-N,N-Dimetil fenilendiamina oxalato***[(CH<sub>3</sub>)<sub>2</sub>NC<sub>6</sub>H<sub>4</sub>NH<sub>2</sub>]<sub>2</sub>.5(COOH)<sub>2</sub>**Atomic weight: 362,44  
CAS N: 24631-29-6  
EEC N: 246-374-0**Transport classification**ONU n. 2811  
Transport class: 6.1  
Packaging group: IIR: 23/24/25  
S: 28-39-45

A

B

C

D

E

F

G

H

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J

K

L

M

N

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R

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X

Y

Z

## N,N-Dimethyl-p-phenylenediamine oxalate - Analytical Grade

## RPE-For analysis



Description White-grey powder

Sulphides sensitivity min. 0.1 mcg/ml

Code	Size	Packaging
444761	g 50	Glass jar

## Dimethyl malonate

*Dimetile malonato - Diméthyle malonate - Dimetil malonato***CH<sub>2</sub>(COOCH<sub>3</sub>)<sub>2</sub>**Atomic weight: 132,12  
CAS N: 108-59-8  
EEC N: 203-597-8

## Dimethyl malonate - Analytical Grade

## RPE-For analysis



Assay (GLC) &gt;=96.0 %

Description Clear colourless liquid

Refractive index at 20° 1.4120 ± 1.4140

Code	Size	Packaging
444961	ml 250	Glass bottle

## Dimethyl sulfide

*Dimetilsoifuro - Diméthyle disulfure - Sulfuro de dimetilo***C<sub>2</sub>H<sub>6</sub>S**Atomic weight: 62,130  
CAS N: 75-18-3  
EEC N: 200-846-2**Transport classification**ONU n. 2381  
Transport class: 3  
Packaging group: II

## Dimethyl sulfide - Technical Grade

## PS-Pure-for synthesis



Assay (GC) &gt;= 99 %

Refractive index at 20°C 1.522 - 1.53

Water content (K.F.) &lt;= 600 mg/Kg

Clear, colourless to light yellow liq. Conform

Code	Size	Packaging
P9410016	ml 1000	Glass bottle

## N,N-Dimethylacetamide

*N,N-Dimetilacetammide - n,n-Diméthylacétamide - N,N-Dimetil acetamida***CH<sub>3</sub>CON(CH<sub>3</sub>)<sub>2</sub>**Atomic weight: 87,122  
CAS N: 127-19-5  
EEC N: 204-826-4R: 61-20/21  
S: 53-45

## N,N-Dimethylacetamide - Analytical Grade

## RPE-For analysis



Assay (GLC) &gt;=99 %

Description Clear colourless liquid

Density at 20° C 0.940 ± 0.946

Refractive index at 20° 1.4343 ± 1.4403

Boiling point 164.0 ± 166.0 °C

Water (K.F.) &lt;=0.3 %

Residue on evaporation &lt;=50 ppm

Acidity (acetic acid) &lt;=60 ppm

Chloride &lt;=10 ppm

Heavy metals (Pb) &lt;=5 ppm

Sulphate &lt;=10 ppm

Fe &lt;=5 ppm

Code	Size	Packaging
444307	ml 1000	Glass bottle
444308	kg 25	Polythene-metal drum

## p-Dimethylaminobenzaldehyde

*p-Dimetilaminobenzaldeide - p-Diméthylaminobenzaldéhyde - p-Dimetilaminobenzaldehydo***(CH<sub>3</sub>)<sub>2</sub>NC<sub>6</sub>H<sub>4</sub>CHO**Atomic weight: 149,19  
CAS N: 100-10-7  
EEC N: 202-819-0

R: 20/21/22

## p-Dimethylaminobenzaldehyde - Analytical Grade

## p-Dimethylaminobenzaldehyde - Analytical Grade

## RPE-For analysis



Assay (non-aqueous medium)  $\geq 97.5\%$  Description Polvere grigio crema Melting point  $74 \pm 2^\circ\text{C}$   
 Fee acidity  $\leq 1\%$

Code	Size	Packaging
444604	g 100	Jar
444603	g 250	Plastic jar

For further information on above products, see following product/application section(s)  
 Chromatography (p. 34)

## p-Dimethylaminobenzylidenerhodanine

p-Dimetilaminobenzalrodanina - p-Diméthylaminobenzalrhodanine - p-Dimetilaminobencilidenderodanina

$(\text{CH}_3)_2\text{NC}_6\text{H}_4\text{CH}:\text{C}=\text{C}:\text{SNHCO}$

Atomic weight: 264,35

CAS N: 536-17-4

EEC N: 208-625-2



R: 20/21/22

## p-Dimethylaminobenzylidenerhodanine - Analytical Grade

## RPE-For analysis



Description Red crystalline powder Loss on drying  $\leq 1\%$  Residue on ignition  $\leq 0.5\%$   
 Copper sensitivity  $\geq 0.5\ \mu\text{g/ml}$  pH range 2.9 - 4.0

Code	Size	Packaging
444678	g 5	Glass jar

Indicator (pH 2,9=4,0).

## 1-Dimethylaminonaphthalene-5-sulphonylhydrazine

1-Dimetilaminonaftalene-5-solfonilidrazina - 1-Diméthylaminonaphthalène-5-sulfonyle hydrazine - 1-Dimetilaminonaftaleno-5- sulfonilidracina

$\text{C}_{12}\text{H}_{10}\text{N}_2\text{O}_2\text{S}$

Atomic weight: 265,330

CAS N: 33008-06-9

EEC N: 251-337-7

## 1-Dimethylaminonaphthalene-5-sulphonylhydrazine - Analytical Grade

## RPE-For analysis



Description xx.ni giallo verdogn Melting point  $127 + 128^\circ\text{C}$

Code	Size	Packaging
444481	g 1	Glass bottle

## 4-Dimethylaminopyridine

4-Dimetilaminopiridina - 4-Diméthylamino-pyridine - 4-Dimetilamino piridina

$(\text{CH}_3)_2\text{NC}:\text{CHCH}:\text{NCH}:\text{CH}$

Atomic weight: 122,17

CAS N: 1122-58-3

EEC N: 214-353-5

Transport classification

ONU n. 2928

Transport class: 6.1

Secondary risk: 8

Packaging group: II



R: 24/25-36/38

S: 23-27-37/39-45

## 4-Dimethylaminopyridine - Analytical Grade

## RPE-For analysis



Description Yellow powder Melting point  $112 + 113^\circ\text{C}$

Code	Size	Packaging
444512	g 25	Glass jar

Derivatizer for chromatography

For further information on above products, see following product/application section(s)  
 Chromatography (p. 34)

## N,N-Dimethylaniline

N,N-Dimetilanilina - n,n-Diméthylaniline - N,N-Dimetil anilina

$\text{C}_8\text{H}_{11}\text{N}$

Atomic weight: 121,180

CAS N: 121-69-7

EEC N: 204-493-5



R: 23/24/25-40-51/53

S: 28-36/37-45-61

## N,N-Dimethylaniline - Technical Grade

## RE-Pure



Assay (GLC)  $\geq 99\%$  Description Yellow clear liquid Density at  $20^\circ\text{C}$   $0.951 + 0.961$   
 Refractive index at  $20^\circ$   $1.5537 + 1.5637$  Boiling point  $192.6 + 195.6^\circ\text{C}$  Water (K.F.)  $\leq 0.3\%$   
 Residue on ignition  $\leq 100\text{ ppm}$

Code	Size	Packaging
339003	kg 26	Metal drum



## 2,5-Dimethylbenzenesulphonic acid

Acido 2,5-dimetilbenzensolfonico - Acide 2,5-diméthylbenzènesulfonique - Acido 2,5-dimetilbencensulfônico

**(CH<sub>3</sub>)<sub>2</sub>CO<sub>2</sub>H.SO<sub>3</sub>H.5H<sub>2</sub>O**  
 Atomic weight: 222,26  
 CAS N: 66905-17-7  
 EEC N: 210-193-5

## 2,5-Dimethylbenzenesulphonic acid - Analytical Grade

## RPE-For analysis



Assay (acidimetric) >=98.5 % Description White crystalline powder Melting point 82 + 86 °C

Code	Size	Packaging
405231	g 25	Glass jar

## Dimethyldichlorosilane

Dimetildiclorosilano - Diméthylidichlorosilane - Dimetildiclorosilano

**(CH<sub>3</sub>)<sub>2</sub>SiCl<sub>2</sub>**  
 Atomic weight: 129,06  
 CAS N: 75-78-5  
 EEC N: 200-901-0

Transport classification  
 ONU n. 1162  
 Transport class: 3  
 Secondary risk: 8  
 Packaging group: II



## Dimethyldichlorosilane - Analytical Grade

## RPE-For analysis



Assay (GLC) >= 99 % Description Clear colourless liquid Density at 20° C 1.070 + 1.072  
 Refractive index at 20° 1.4040 + 1.4060 Boiling point 68.5 + 69.5 ° C

Code	Size	Packaging
444771	ml 100	Glass bottle

Derivatizer for chromatography

For further information on above products, see following product/application section(s)  
 Chromatography (p. 34)

## Dimethylethylsilylimidazole

Dimetiletisillimidazolo - Diméthyléthylsilylimidazole - Dimetiletisillimidazol

**C<sub>7</sub>H<sub>14</sub>N<sub>2</sub>Si**  
 Atomic weight: 154,200  
 CAS N: 62365-34-8  
 EEC N: 263-525-6

## Dimethylethylsilylimidazole - Analytical Grade

## RPE-For analysis



Description Clear colourless liquid Density at 20° C >=1.0

Code	Size	Packaging
444542	ml 1	Glass vial

Derivatizer for chromatography

For further information on above products, see following product/application section(s)  
 Chromatography (p. 34)

## N,N-Dimethylformamide-d7

N,N-Dimetilformammide-d7 - n,n-Diméthylformamide-d7 - N,N-Dimetil formamida-d7

**CaD<sub>7</sub>NO**  
 Atomic weight: 80,150  
 CAS N: 4472-41-7  
 EEC N: 224-745-8

Transport classification  
 ONU n. 2265  
 Transport class: 3  
 Packaging group: III



## N,N-Dimethylformamide-d7 - Special Grade

## RS-For NMR spectroscopy



Code	Size	Packaging	Notes
P5183A	ml 5	Ampoule	Isotopic purity 99,50%
P5189A	2 x ml 0,75	Ampoule	Isotopic purity 99,50%

For further information on above products, see following product/application section(s)  
 NMR Spectroscopy (p. 65)

## N,N-Dimethylformamide anhydrous

N,N-Dimetilformammide - n,n-Diméthylformamide - N,N-Dimetil formamida

**(CH<sub>3</sub>)<sub>2</sub>NOCH**  
 Atomic weight: 73,095  
 CAS N: 68-12-2  
 EEC N: 200-679-5

Transport classification  
 ONU n. 2265  
 Transport class: 3  
 Packaging group: III



## N,N-Dimethylformamide anhydrous - Analytical Grade

## N,N-Dimethylformamide anhydrous - Analytical Grade

## PA-PUREX-for analysis

sds

Assay (GC) >= 99.9 %	Refractive index at 20°C 1.428 - 1.432	Water content (K.F.) <= 300 mg/Kg
Colour <= 10 Hazen	Methanol <= 100 mg/Kg	Non volatile residue <= 20 mg/Kg
Free acid (as HCOOH) <= 20 mg/Kg	Free alkali as HN(CH <sub>3</sub> ) <sub>2</sub> <= 20 mg/Kg	Iron (Fe) <= 5 mg/Kg

Code	Size	Packaging
P0340522	ml 5000	Plastic drum

## RPE-ACS-for analysis-Reag. Ph.Eur.-Reag. USP

CARLO ERBA  
Quality since 1848

Assay (GLC) >=99.8 %	Description Clear liquid	Colour (APHA) <=15
Identification (I.R.) Conform	Water miscibility Conform	Chloroform miscibility complete
Density at 20° C 0.949 ± 0.952	Refract. index at 25° C 1.4224 ± 1.4314	Boiling point 152.0 + 154.0 ° C
Water (K.F.) <=0.1 %	Residue on evaporation <=50 ppm	Acidity (formic acid) <=25 ppm
Alcalinity (NH <sub>3</sub> ) <=50 ppm	Chloride <=10 ppm	Heavy metals (Pb) <=1 ppm
Sulphate <=10 ppm	Cd <=0.05 ppm	Cr <=0.02 ppm
Cu <=0.02 ppm	Fe <=0.05 ppm	Ni <=0.02 ppm
Pb <=0.1 ppm		

Code	Size	Packaging
444926	ml 1000	Glass bottle
444923	ml 2500	Glass bottle
444928	kg 20	Glass-polystyrene container
444925	kg 190	Metallic can

## RPE-For analysis

CARLO ERBA  
Quality since 1848

Assay (GLC) >=99.8 %	Description Clear liquid	Colour (APHA) <=15
Identification (I.R.) Conform	Water miscibility Conform	Chloroform miscibility complete
Density at 20° C 0.949 ± 0.952	Refract. index at 25° C 1.4224 ± 1.4314	Boiling point 152.0 + 154.0 ° C
Water (K.F.) <=500 ppm	Residue on evaporation <=50 ppm	Acidity (formic acid) <=25 ppm
Alcalinity (NH <sub>3</sub> ) <=50 ppm	Chloride <=10 ppm	Heavy metals (Pb) <=1 ppm
Sulphate <=10 ppm	Cd <=0.05 ppm	Cr <=0.02 ppm
Cu <=0.02 ppm	Fe <=0.05 ppm	Ni <=0.02 ppm
Pb <=0.1 ppm		

Code	Size	Packaging
445011	ml 1000	Glass bottle

Low content of water.

## N,N-Dimethylformamide anhydrous - Special Grade

## RS-Anhydrous-for analysis

sds

Assay (GC) >= 99.9 %	Refractive index at 20°C 1.428 - 1.432	Water content (K.F.) <= 50 mg/Kg
Colour <= 10 Hazen	Methanol <= 100 mg/Kg	Non volatile residue <= 20 mg/Kg
Free acid (as HCOOH) <= 20 mg/Kg	Free alkali as HN(CH <sub>3</sub> ) <sub>2</sub> <= 20 mg/Kg	Iron (Fe) <= 5 mg/Kg

Code	Size	Packaging	Notes
P0341010	ml 200	Glass bottle	with septum
P03410T10	ml 200	Bottle with sept	with septum and molecular sieves
P0341016	ml 1000	Glass bottle	
P03410T16	ml 1000	Glass bottle	with molecular sieves
P0341021	ml 2500	Glass bottle	

For further information on above products, see following product/application section(s)  
Anhydrous solvents (p. 27)

## RS-ATRASOL-For analysis of volatile traces

sds

Assay (GC) >= 99.9 %	Refractive index at 20°C 1.428 - 1.432	Water content (K.F.) <= 500 mg/Kg
Colour <= 10 Hazen	Non volatile residue <= 10 mg/Kg	GC-FID. Individ. peak (hexane) <= 3 mg/l

Retention time range before DMF -

Code	Size	Packaging
P0343216	ml 1000	Glass bottle

For further information on above products, see following product/application section(s)  
Special products for environmental analysis (p. 81)

## RS-For optical spectroscopy

CARLO ERBA  
Quality since 1848

Assay (GLC) >=99.8 %	Description Clear liquid	Colour (APHA) <=10
Density at 20° C 0.940 ± 0.948	Refract. index at 25° C 1.4224 ± 1.4314	Boiling point 152.0 + 154.0 ° C
Water (K.F.) <=500 ppm	Residue on evaporation <=10 ppm	Acidity or alkalinity <=0.001 meq/g
Fluorescence -	at 254 nm <=2 ppb	at 365 nm <=2 ppb
U.V. Transmittance -	at 270 nm >=32 %	at 280 nm >=71 %
at 300 nm >=89 %	at 320 nm >=96 %	at 340 nm >=97 %
at 350 nm >=99 %		

Code	Size	Packaging
444957	ml 1000	Glass bottle

Spectrophotometric analysis (1 cm - ref. Water)

## N,N-Dimethylformamide anhydrous - Special Grade

## RS-For peptide synthesis

sds

Assay (GC) >= 99.8 %	Refractive index at 20°C 1.428 - 1.432	Water content (K.F.) <= 500 mg/Kg
Colour <= 10 Hazen	Bromophenol blue test Conform	Non volatile residue <= 20 mg/Kg

Code	Size	Packaging
P0343516	ml 1000	Glass bottle
P0343521	ml 2500	Glass bottle
P0343522	ml 5000	Plastic drum
P0343541	l 10	Plastic drum
P0343549	l 25	Plastic drum
P0343550	l 25	Polythene-metal drum
P0343567	l 25	Plastic drum

## RS-PESTIPUR-for pesticide analysis

sds

Assay (GC) >= 99.8 %	Refractive index at 20°C 1.428 - 1.432	Water content (K.F.) <= 500 mg/Kg
Colour <= 10 Hazen	Non volatile residue <= 10 mg/Kg	GC-ECD.Individual peak (Lindane) <= 3 ng/l

Retention time trichlorobenzene to mirex -

Code	Size	Packaging
P0342216	ml 1000	Glass bottle

## RS-PLUS-for residual pesticide analysis

CARLO ERBA  
Quality since 1824

Code	Size	Packaging
444941	ml 1000	Glass bottle

For further information on above products, see following product/application section(s)  
Special products for environmental analysis (p. 81)

## RS-SPECTROSOL-for optical spectroscopy

sds

Assay (GC) >= 99.9 %	Refractive index at 20°C 1.428 - 1.432	Water content (K.F.) <= 400 mg/Kg
Colour <= 10 Hazen	UV transmittance at 270 nm >= 28 %	UV transmittance at 280 nm >= 72 %
UV transmittance at 300 nm >= 90 %	UV transmittance at 330 nm >= 98 %	Non volatile residue <= 10 mg/Kg
Free acid (as HCOOH) <= 20 mg/Kg	Methanol <= 100 mg/Kg	Free alkali as HN(CH <sub>3</sub> ) <sub>2</sub> <= 20 mg/Kg

Code	Size	Packaging
P0342716	ml 1000	Glass bottle
P0342721	ml 2500	Glass bottle

For further information on above products, see following product/application section(s)  
Solvents for spectroscopy (p. 68)

## N,N-Dimethylformamide anhydrous - Technical Grade

## PS-Pure-for synthesis

sds

Assay (GC) >= 99.9 %	Refractive index at 20°C 1.428 - 1.432	Water content (K.F.) <= 500 mg/Kg
Colour <= 10 Hazen	Non volatile residue <= 50 mg/Kg	Methanol <= 100 mg/Kg

Code	Size	Packaging
P0340215	ml 1000	Plastic bottle
P0340221	ml 2500	Glass bottle
P0340222	ml 5000	Plastic drum
P0340249	l 25	Plastic drum
P0340266	l 200	Combined drum

## RE-Pure

CARLO ERBA  
Quality since 1824

Assay (GLC) >= 99.7 %	Density at 20°C 0.940 ± 0.960	Refractive index at 20°C 1.4229 ± 1.4329
Boiling point 152.0 ± 154.0 °C	Water (K.F.) <= 0.1 %	Residue on evaporation <= 50 ppm
pH at 20°C 6.0 ± 8.0		

Code	Size	Packaging
508801	ml 1000	Glass bottle
528221	ml 5000	Metal tank
528220	l 25	Metal drum

## N,N-Dimethylformamide dimethylacetal

N,N-Dimetilformammide dimetilacetale - n,n-Diméthylformamide diméthylacétal - N,N-Dimetil formamida dimetilacetal

(CH<sub>3</sub>)<sub>2</sub>NCH(OCH<sub>3</sub>)<sub>2</sub>  
Atomic weight: 119.16  
CAS N: 4637-24-5  
EEC N: 225-063-3

Transport classification  
ONU n. 1993  
Transport class: 3  
Packaging group: II



## N,N-Dimethylformamide dimethylacetal - Analytical Grade

## RPE-For analysis

CARLO ERBA  
Quality since 1824

Description Clear colourless liquid	Density at 20 °C >=0.90	Boiling point 102 ± 104 ° C
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Code	Size	Packaging
444901	ml 10	Glass bottle

Derivatizer for chromatography

For further information on above products, see following product/application section(s)  
Chromatography (p. 34)

## N,N'-Dimethylpropylene uree

*N,N'-Dimetilpropilene urea - N,N'-Diméthylpropylène urée - N,N'-Dimetilpropileno urea***CH<sub>2</sub>H<sub>2</sub>N<sub>2</sub>O**

Atomic weight: 128,180

CAS N: 7226-23-5

EEC N: 230-625-6

## N,N'-Dimethylpropylene uree - Technical Grade

## PS-Pure-for synthesis

sds

Code	Size	Packaging
P8020216	ml 1000	Glass bottle
P8020229	ml 5000	Plastic drum
P8020248	l 25	Metal drum
P8020268	l 200	Metal drum

For further information on above products, see following product/application section(s)

Green solvents (p. 45)

## Dimethylsulphoxide

*Dimetilsolfossido - Diméthylsulfoxyde - Dimetil sulfóxido***CH<sub>3</sub>SOCH<sub>3</sub>**

Atomic weight: 78,134

CAS N: 67-68-5

EEC N: 200-664-3

Transport classification

ONU n. 1993



R: 36/38

S: 26

## Dimethylsulphoxide - Analytical Grade

## RPE-ACS-for analysis-Reag. Ph.Eur.-Reag. USP

CARLO ERBA  
Quality since 1874

Assay (GLC) >=99.9 %	Description Clear colourless liquid	Ready carbonizable substances Conform
Density at 20° C 1.096 ± 1.106	Refractive index at 20° 1.4765 ± 1.4825	Boiling point 188.5 ± 189.5 °C
Melting point 18.3 ± 18.7 °C	Water (K.F.) <=0.1 %	Residue on evaporation <=50 ppm
Acidity <=0.001 meq/g	Chloride <=5 ppm	Heavy metals (Pb) <=20 ppm
Sulphate <=50 ppm		

Code	Size	Packaging
445108	ml 100	Bottle
445103	ml 1000	Glass bottle
445106	ml 2500	Glass bottle
445107	kg 15	Plastic jar
445101	kg 25	Polythene-metal drum

## Dimethylsulphoxide - Special Grade

## RS-ATRASOL-For analysis of volatile traces

sds

Assay (GC) >= 99.9 %	Refractive index at 20°C 1.477 - 1.481	Water content (K.F.) <= 1000 mg/Kg
Colour <= 10 Hazen	see MP assay Conform	Non volatile residue <= 3 mg/Kg
GC-FID. Individ. peak (hexane) <= 5 mg/l	Retention time range before DMSO -	

Code	Size	Packaging
P0353216	ml 1000	Glass bottle

For further information on above products, see following product/application section(s)

Special products for environmental analysis (p. 81)

## RS-For optical spectroscopy

CARLO ERBA  
Quality since 1874

Assay (GLC) >=99.8 %	Description Clear colourless liquid	Density at 20° C 1.096 ± 1.106
Refractive index at 20° 1.4765 ± 1.4825	Melting point 18.1 ± 18.7 °C	Water (K.F.) <=500 ppm
Residue on evaporation <=10 ppm	Acidity <=0.0005 meq/g	Alcalinity <=0.0002 meq/g
Fluorescence -	at 254 nm <=2 ppb	at 365 nm <=2 ppb
U.V. Transmittance -	at 265 nm >=10 %	at 275 nm >=60 %
at 315 nm >=90 %	at 335 nm >=99 %	

Code	Size	Packaging
445112	ml 1000	Glass bottle

Spectrophotometric analysis (1 cm - ref. Water)

For further information on above products, see following product/application section(s)

Solvents for spectroscopy (p. 68)

## RS-SPECTROSOL-for optical spectroscopy

sds

Assay (GC) >= 99.8 %	Refractive index at 20°C 1.477 - 1.481	Water content (K.F.) <= 1000 mg/Kg
Colour <= 10 Hazen	UV transmittance at 265 nm >= 10 %	UV transmittance at 270 nm >= 34 %
UV transmittance at 290 nm >= 71 %	UV transmittance at 340 nm >= 98 %	Non volatile residue <= 10 mg/Kg
Dimethylsulphone <= 0.1 %		

Code	Size	Packaging
P0352716	ml 1000	Glass bottle
P0352721	ml 2500	Glass bottle

For further information on above products, see following product/application section(s)

Solvents for spectroscopy (p. 68)

## Dimethylsulphoxide - Technical Grade

## Dimethylsulphoxide - Technical Grade

## PS-Pure-for synthesis

sds

Assay (GC) >= 99.8 %	Refractive index at 20°C 1.477 - 1.481	Water content (K.F.) <= 1000 mg/Kg
Water content (K.F.) <= 100 mg/Kg	Colour <= 10 Hazen	Dimethylsulphone <= 0.1 %
Non volatile residue <= 50 mg/Kg		

Code	Size	Packaging	Notes
P03502T16	ml 1000	Glass bottle	with molecular sieves
P0350221	ml 2500	Glass bottle	
P03502T21	ml 2500	Glass bottle	with molecular sieves
P0350242	l 20	Plastic drum	
P0350266	l 200	Combined drum	

## RE-Pure

CARLO ERBA  
Quality since 1884

Assay (GLC) >= 99.5 %	Colour <= 10 APHA	Density at 20°C 1.096 + 1.106
Refractive index at 20°C 1.4765 + 1.4825	Boiling point 188 + 190 °C	Acidity <= 100 ppm
Water (K.F.) <= 0.1 %	Residue on evaporation <= 50 ppm	

Code	Size	Packaging
508001	ml 1000	Glass bottle
528335	ml 5000	Metal tank

## Dimethylsulphoxide-d6

Dimetilsolfossido-d6 - Diméthylsulfoxyde-d6 - Dimetil sulfóxido-d6

CD<sub>3</sub>SOCD<sub>3</sub>

Atomic weight: 84,180  
CAS N: 2206-27-1  
EEC N: 218-617-0

R: 36/38  
S: 26

## Dimethylsulphoxide-d6 - Special Grade

## RS-For NMR spectroscopy

sds

Code	Size	Packaging	Notes
P5204A	ml 10	Ampoule	Isotopic purity 99,80%
P5205	ml 25	Glass bottle	Isotopic purity 99,80%
P5605	ml 25	Glass bottle	+0,03 % TMS - Isotopic purity 99,80%
P5206	ml 100	Glass bottle	Isotopic purity 99,80%
P5606	ml 100	Glass bottle	+0,03 % TMS - Isotopic purity 99,80%
P5200	10 x ml 0,6	Ampoule	Isotopic purity 99,80%
P5204S	5 x ml 10	Bottle with sept	Isotopic purity 99,80%
P5209	10 x ml 0,75	Ampoule	Isotopic purity 99,80%
P5220	10 x ml 0,6	Ampoule	Isotopic purity 99,96%
P5229	10 x ml 0,75	Ampoule	Isotopic purity 99,96%
P5602	10 x ml 0,6	Ampoule	+0,03 % TMS - Isotopic purity 99,80%

For further information on above products, see following product/application section(s)  
NMR Spectroscopy (p. 65)

## Dimidium bromide

Dimidio bromuro - Dimidium bromure - Dimidio bromuro

C<sub>20</sub>H<sub>16</sub>Br<sub>2</sub>N<sub>4</sub>

Atomic weight: 380,29  
CAS N: 518-67-2  
EEC N: 208-256-7



R: 20/21/22

## Dimidium bromide - Analytical Grade

## RPE-For analysis

CARLO ERBA  
Quality since 1884

Description Brown violet crystalline powder

Code	Size	Packaging
445232	g 1	Glass bottle
445231	g 5	Glass jar

For the analysis of surfactants

## 2,4-Dinitroaniline

2,4-Dinitroanilina - 2,4-Dinitroaniline - 2,4-Dinitroanilina

C<sub>6</sub>H<sub>5</sub>NaO<sub>2</sub>

Atomic weight: 183,12  
CAS N: 97-02-9  
EEC N: 202-553-5

## Transport classification

ONU n. 1596  
Transport class: 6.1  
Packaging group: II

R: 26/27/28-33-51/53  
S: 28-36/37-45-61

## 2,4-Dinitroaniline - Analytical Grade

## RPE-For analysis

CARLO ERBA  
Quality since 1884

Assay (oxidimetric) 98 + 100 %	Description Polvere xx.na gialla	Melting point 178.0 + 182.0 ° C
Residue on ignition <=0.5 %		

Code	Size	Packaging
445272	g 25	Glass jar

### 3,5-Dinitrobenzoyl chloride

3,5-Dinitrobenzoile cloruro - 3,5-Dinitrobenzoylchlorure - 3,5-Dinitrobenzoylchloruro

**(NO<sub>2</sub>)<sub>2</sub>C<sub>6</sub>H<sub>3</sub>COCl**  
Atomic weight: 230,57  
CAS N: 99-33-2  
EEC N: 202-750-6

**Transport classification**  
ONU n. 3261  
Transport class: 8  
Packaging group: II

  
R: 34  
S: 26-45

#### 3,5-Dinitrobenzoyl chloride - Analytical Grade



##### RPE-For analysis

**Assay (argentimetric) 99 + 100 %** Description Yellow irregular flakes Melting point 68 + 70 °C  
Total phosphorus <=10 ppm Residue on ignition <=0.1 % Total sulphur <=10 ppm

Code	Size	Packaging
445361	g 25	Glass jar

For further information on above products, see following product/application section(s)  
Chromatography (p. 34)

### 2,4-Dinitrochlorobenzene

2,4-Dinitrochlorobenzene - 2,4-Dinitrochlorobenzène - 2,4-Dinitro -1-chlorobenceno

**(NO<sub>2</sub>)<sub>2</sub>C<sub>6</sub>H<sub>3</sub>Cl**  
Atomic weight: 202,56  
CAS N: 97-00-7  
EEC N: 202-551-4

**Transport classification**  
ONU n. 3441  
Transport class: 6.1  
Packaging group: II

  
R: 23/24/25-33-50/53  
S: 28-36/37-45-60-61

#### 2,4-Dinitrochlorobenzene - Technical Grade



##### RE-Pure

**Assay (argentimetric) >=98 %** Description Yellow crystal. powder Melting point 48 + 52 °C  
Residue on ignition <=0.1 %

Code	Size	Packaging
445421	g 250	Glass jar

### 2,4-Dinitrofluorobenzene

2,4-Dinitrofluorobenzene - 2,4-Dinitrofluorobenzène - 2,4-Dinitrofluorobenceno

**(NO<sub>2</sub>)<sub>2</sub>C<sub>6</sub>H<sub>3</sub>F**  
Atomic weight: 186,11  
CAS N: 70-34-8  
EEC N: 200-734-3

**Transport classification**  
ONU n. 2811  
Transport class: 6.1  
Packaging group: II

  
R: 23/24/25-33  
S: 28-37-45

#### 2,4-Dinitrofluorobenzene - Analytical Grade



##### RPE-For analysis

**Assay (GLC) >= 98 %** Description Liquido giallo scuro

Code	Size	Packaging
445701	g 10	Glass bottle

For further information on above products, see following product/application section(s)  
Chromatography (p. 34)

### 2,4-Dinitrophenol solution 0.05% in water

2,4-Dinitrofenolo soluzione 0,05% in acqua - 2,4-Dinitrophenol en solution à 0,05% dans l'eau - 2,4-Dinitrofenol solución 0.05% en agua

**C<sub>6</sub>H<sub>3</sub>N<sub>2</sub>O<sub>6</sub>**  
CAS N: 51-28-5  
EEC N: 200-087-7

#### 2,4-Dinitrophenol solution 0.05% in water - Analytical Grade



##### RPE-For analysis

Description Yellow clear liquid pH range 2.4 - 4.0 Colour change colourless-yellow

Code	Size	Packaging
445596	ml 500	Glass bottle

Indicator according to Michaelis

### 2,4-Dinitrophenylhydrazine (with 50% of added water)

**(NO<sub>2</sub>)<sub>2</sub>C<sub>6</sub>H<sub>3</sub>NNH<sub>2</sub>**  
Atomic weight: 198,14  
CAS N: 119-26-6  
EEC N: 204-309-3

**Transport classification**  
ONU n. 1325  
Transport class: 4.1  
Packaging group: II

  
R: 1-22  
S: 15

#### 2,4-Dinitrophenylhydrazine (with 50% of added water) - Analytical Grade



##### RPE-For analysis

**Assay (HPLC) >= 98.5 %** Description Reddish powder Melting point 198 + 201 °C  
Water (K.F.) 30 + 35 % Residue on ignition <= 500 ppm Fe <= 10 ppm

Code	Size	Packaging
445524	g 100	Jar

## Diocetyl phthalate

Diottile ftalato - Diocetyl phthalate - Diocetilo ftalato

**C<sub>24</sub>H<sub>34</sub>(COOC<sub>8</sub>H<sub>17</sub>)<sub>2</sub>**  
 Atomic weight: 390  
 CAS N: 117-81-7  
 EEC N: 204-211-0



R: 60-61  
 S: 53-45

## Diocetyl phthalate - Analytical Grade

## RPE-For analysis



**Assay (saponification) >=99.5 %** Description Liquido limpido incolore o giallo Density at 20° C 0.982 ± 0.988  
 Refractive index at 20° 1.4820 ± 1.4880 Water (K.F.) <=0.1 % Acidity (Phthalic acid) <=0.1 %

Code	Size	Packaging
445857	ml 1000	Glass bottle

## 1,4-Dioxane

1,4-Diossano - 1,4-Dioxane - 1,4-Dioxano

**OCH<sub>2</sub>CH<sub>2</sub>OCH<sub>2</sub>CH<sub>2</sub>**  
 Atomic weight: 88,107  
 CAS N: 123-91-1  
 EEC N: 204-661-8

**Transport classification**  
 ONU n. 1165  
 Transport class: 3  
 Packaging group: II



R: 11-19-36/37-40-66  
 S: 16-36/37-46

## 1,4-Dioxane - Analytical Grade

## PA-PUREX-for analysis



**Assay (GC) >= 99.8 %** Refractive index at 20°C 1.42 - 1.424 Water content (K.F.) <= 400 mg/Kg  
 Colour <= 10 Hazen Peroxides (as H<sub>2</sub>O<sub>2</sub>) <= 50 mg/Kg Stabilizer (ionol) 20 - 80 mg/Kg  
 Non volatile residue (without stab.) <= 10 mg/Kg Free acid (as CH<sub>3</sub>COOH) <= 50 mg/Kg

Code	Size	Packaging
P0360522	ml 5000	Plastic drum

## RPE-ACS-for analysis-Reag. Ph.Eur.-Reag. USP



**Assay (GLC) >=99.8 %** Description Clear colourless liquid Density at 20° C 1.032 ± 1.036  
 Refractive index at 20° 1.4194 ± 1.4254 Boiling point 100.5 ± 101.5 °C Freezing point 11.5 ± 12.1 °C  
 Water (K.F.) <=500 ppm Residue on evaporation <=20 ppm Acetal <=50 ppm  
 Acidity <=0.0016 meq/g Total phosphorus <=0.1 ppm Total silicon <=0.05 ppm  
 Total sulphur <=0.2 ppm Ca <=0.5 ppm Cu <=0.02 ppm  
 Fe <=0.2 ppm K <=0.1 ppm Mg <=0.05 ppm  
 Na <=0.5 ppm Pb <=0.05 ppm Zn <=0.2 ppm  
 Peroxides (H<sub>2</sub>O<sub>2</sub>) <=50 ppm Carbonyl (as HCHO) <=100 ppm

Code	Size	Packaging
443202	ml 1000	Glass bottle
443206	ml 2500	Glass bottle
443201	kg 28	Metal drum

Stabilized with ~2,5 ppm of BHT.

For further information on above products, see following product/application section(s)  
 Microscopy (p. 58)

## 1,4-Dioxane - Special Grade

## RS-Anhydrous-for analysis



**Assay (GC) >= 99.8 %** Refractive index at 20°C 1.42 - 1.424 Water content (K.F.) <= 100 mg/Kg  
 Colour <= 10 Hazen Peroxides (as H<sub>2</sub>O<sub>2</sub>) <= 50 mg/Kg Stabilizer (ionol) 20 - 80 mg/Kg  
 Non volatile residue (without stab.) <= 10 mg/Kg Free acid (as CH<sub>3</sub>COOH) <= 50 mg/Kg

Code	Size	Packaging	Notes
P0361010	ml 200	Glass bottle	with septum
P0361016	ml 1000	Glass bottle	
P0361021	ml 2500	Glass bottle	

For further information on above products, see following product/application section(s)  
 Anhydrous solvents (p. 27)

## RS-Dehydrating for histology



Description Clear colourless liquid Density at 20° C 1.031 ± 1.037

Code	Size	Packaging
443182	ml 2500	Glass bottle

## RS-For HPLC-Isocratic Grade



**Assay (GC) >= 99.8 %** Non volatile residue <= 5 mg/Kg Refractive index at 20°C 1.42 - 1.424  
 Water content (K.F.) <= 250 mg/Kg Colour <= 10 Hazen UV transmittance at 240 nm >= 30 %  
 UV transmittance at 250 nm >= 50 % UV transmittance at 280 nm >= 30 % UV transmittance at 300 nm >= 95 %  
 UV transmittance at 320 nm >= 98 % Stabilizer (ionol) 40 - 60 mg/Kg Peroxides (as H<sub>2</sub>O<sub>2</sub>) <= 50 mg/Kg  
 Free acid (as CH<sub>3</sub>COOH) <= 50 mg/Kg

Code	Size	Packaging
P03637S16	ml 1000	Glass bottle

For further information on above products, see following product/application section(s)  
 Chromatography (p. 34)

## 1,4-Dioxane - Special Grade

## RS-For HPLC-Isocratic Grade



<b>Assay (GLC) &gt;=99.5 %</b>	Description Clear colourless liquid	Density at 20° C 1.032 + 1.036
Refractive index at 20° 1.4194 + 1.4254	Boiling point 100.5 + 101.5 ° C	Acidity or alkalinity <=0.0002 meq/g
Water (K.F.) <=250 ppm	Residue on evaporation <=2 ppm	<b>U.V. Transmittance -</b>
at 220 nm >=40 %	at 230 nm >=60 %	at 240 nm >=75 %
at 250 nm >=84 %	at 260 nm >=89 %	at 270 nm >=93 %
at 300 nm >=98 %		

Code	Size	Packaging
412582	ml 2500	Glass bottle

For further information on above products, see following product/application section(s)  
Chromatography (p. 34)

## RS-For optical spectroscopy



<b>Assay (GLC) &gt;=99.5 %</b>	Description Clear colourless liquid	Density at 20° C 1.032 + 1.036
Refractive index at 20° 1.4194 + 1.4254	Boiling point 100.5 + 101.5 ° C	Water (K.F.) <=200 ppm
Residue on evaporation <=2 ppm	Peroxides (H2O2) <=30 ppm	<b>U.V. Transmittance -</b>
at 220 nm >=40 %	at 230 nm >=60 %	at 240 nm >=75 %
at 250 nm >=84 %	at 260 nm >=89 %	at 270 nm >=93 %

Code	Size	Packaging
443213	ml 1000	Glass bottle

Spectrophotometric analysis (1 cm - ref. Water)

## 1,4-Dioxane - Technical Grade

## PS-Pure-for synthesis



<b>Assay (GC) &gt;= 99.5 %</b>	Refractive index at 20°C 1.42 - 1.424	Water content (K.F.) <= 1000 mg/Kg
Colour <= 10 Hazen	Peroxides (as H2O2) <= 50 mg/Kg	Stabilizer (ionol) 20 - 80 mg/Kg
Non volatile residue (without stab.) <= 50 mg/Kg	Free acid (as CH3COOH) <= 50 mg/Kg	

Code	Size	Packaging
P0360222	ml 5000	Plastic drum
P0360249	l 25	Plastic drum
P0360268	l 200	Metal drum

## RE-Pure



<b>Assay (GLC) &gt;=99 %</b>	Description Clear colourless liquid	Density at 20° C 1.031 + 1.037
Refractive index at 20° 1.4174 + 1.4274	Boiling point 100.3 + 101.8 ° C	Water (K.F.) <=0.1 %
Residue on evaporation <=50 ppm	Acetal <=0.2 %	Acidity (acetic acid) <=100 ppm
Peroxides (H2O2) <=100 ppm	Stabilized with BHT 20 + 80 ppm	

Code	Size	Packaging
338001	ml 1000	Glass bottle
338003	ml 2500	Glass bottle
528411	ml 5000	Metal tank
338005	kg 28	Metal drum
338009	kg 200	Metal drum

## 1,4-Dioxane-d8

1,4-Dioossano-d8 - 1,4-Dioxane-d8 - 1,4-Dioxano-d8

**CaD8O2**  
Atomic weight: 96,170  
CAS N: 17647-74-4  
EEC N: 241-628-7

**Transport classification**  
ONU n. 1165  
Transport class: 3  
Packaging group: II

   
R: 11-19-36/37-40-66  
S: 16-36/37-46

## 1,4-Dioxane-d8 - Special Grade

## RS-For NMR spectroscopy



Code	Size	Packaging	Notes
P5239A	2 x ml 0,75	Ampoule	Isotopic purity 99,00%

For further information on above products, see following product/application section(s)  
NMR Spectroscopy (p. 65)

## 1,3-Dioxolane

1,3-Dioossolano - 1,3-Dioxolane - 1,3-Dioxolano

**CaH6O2**  
Atomic weight: 74,080  
CAS N: 646-06-0  
EEC N: 211-463-5

## 1,3-Dioxolane - Technical Grade



## 1,3-Dioxolane - Technical Grade

## PS-Pure-for synthesis

sds

Code	Size	Packaging
P8030216	ml 1000	Glass bottle
P8030222	ml 5000	Tank
P8030249	l 25	Tank
P8030268	l 200	Metal drum

For further information on above products, see following product/application section(s)  
Green solvents (p. 45)

## Diphenylamine

Difenilammina - Diphénylamine - Difenilamina

(C6H5)2NH

Atomic weight: 169,23  
CAS N: 122-39-4  
EEC N: 204-539-4

Transport classification  
ONU n. 2811  
Transport class: 6.1  
Packaging group: II



R: 23/24/25-33-50/53  
S: 28-36/37-45-60-61

## Diphenylamine - Analytical Grade

## RPE-ACS-for analysis-Reag. Ph.Eur.-Reag. USP

CARLO ERBA  
Qualità since 1889

Description White crystalline powder Nitrate Conform Melting point 52.5 + 54.0 °C  
Nitrate sensitivity Conform Alcohol solubility Conform Residue on calcination <= 0.03 %

Code	Size	Packaging
443654	g 100	Plastic jar

Redox indicator. For the analysis of nitrates

For further information on above products, see following product/application section(s)  
Indicators (p. 50)

## 4-Diphenylaminesulphonic acid sodium salt

4-Difenilammina solfonato sodico - 4-Diphénylamine sulfonate sodique - 4-Difenilamina sulfonato sal sódica

C6H5NHC6H4SO3Na

Atomic weight: 271,27  
CAS N: 6152-67-6  
EEC N: 228-165-6



R: 20/21/22-36/38  
S: 22-26

## 4-Diphenylaminesulphonic acid sodium salt - Analytical Grade

## RPE-ACS-for analysis

CARLO ERBA  
Qualità since 1889

Description Whitish powder Sensitivity as indicat. Conform

Code	Size	Packaging
443671	g 10	Glass jar

Redox indicator

## sym-Diphenylcarbazide

sim-Difenilcarbazide - Sym-Diphénylcarbazide - sim-Difenilcarbazida

C6H5NHNHC(=O)NHNHC6H5

Atomic weight: 242,28  
CAS N: 140-22-7  
EEC N: 205-403-7

## sym-Diphenylcarbazide - Analytical Grade

## RPE-ACS-for analysis-Reag. Ph.Eur.-Reag. USP

CARLO ERBA  
Qualità since 1889

Assay (HPLC) >= 99.0 % Description White powder Melting point 173 + 176 ° C  
Loss on drying <= 1 % Chromate sensitivity Conform Sulphated ash <= 0.05 %

Code	Size	Packaging
443752	g 25	Glass jar
443754	g 100	Glass jar

Redox indicator

For further information on above products, see following product/application section(s)  
Indicators (p. 50)

## sym-Diphenylcarbazone

sim-Difenilcarbazone - Sym-Diphénylcarbazone - sim-Difenilcarbazona

C6H5N:NCONHNHC6H5

Atomic weight: 240,27  
CAS N: 538-62-5  
EEC N: 208-698-0



R: 36/37/38  
S: 22-24/25

## sym-Diphenylcarbazone - Analytical Grade

## sym-Diphenylcarbazono - Analytical Grade

RPE-ACS-for analysis-Reag. Ph.Eur.-Reag. USP



Description Orange crystalline powder Acetone solubility Conform Mercury sensitivity Conform  
Residue on ignition <=0.1 %

Code	Size	Packaging
443801	g 10	Glass jar

It contains sim-diphenylcarbazono. Indicator redox

For further information on above products, see following product/application section(s)  
Indicators (p. 50)

## 2,5-Diphenylossazole

2,5-Difenilossazolo - 2,5-Diphényloxazole - 2,5-Difeniloxazol

C<sub>16</sub>H<sub>11</sub>NO

Atomic weight: 221,25

CAS N: 92-71-7

EEC N: 202-181-3

## 2,5-Diphenylossazole - Special Grade

RS-For radiochemistry



Description White crystalline powder

Code	Size	Packaging
443972	g 100	Plastic jar

## sym-Diphenylthiocarbazono

sim-Difeniltiocarbazono - Sym-Diphénylthiocarbazono - sim-Difeniltiocarbazono

C<sub>16</sub>H<sub>12</sub>N<sub>2</sub>CSN:NC<sub>16</sub>H<sub>12</sub>

Atomic weight: 256,32

CAS N: 60-10-6

EEC N: 200-454-1



R: 20/21/22-36/37/38  
S: 22

## sym-Diphenylthiocarbazono - Analytical Grade

RPE-ACS-for analysis-Reag. Ph.Eur.-Reag. USP



Assay (spectrophotom.) >= 85.0 % Description Black-violet powder E 620/E 450 nm >= 1.55  
Heavy metals (Pb) <= 20 ppm Residue on ignition <= 0.3 %

Code	Size	Packaging
444053	g 50	Glass jar

## Dipivaloylmethano

Dipivaloilmetano - Dipivaloylméthane - Dipivaloilmetano

C<sub>11</sub>H<sub>10</sub>O<sub>2</sub>

Atomic weight: 184,24

CAS N: 1118-71-4

EEC N: 214-268-3



R: 11

## Dipivaloylmethano - Analytical Grade

RPE-For analysis



Assay (GLC) 98 ± 100 % Description Density at 20° C >=0.897

Code	Size	Packaging
446021	g 10	Glass bottle

## n-Dipropylammine

n-Dipropilammina - n-Dipropylamine - n-Dipropilamina

C<sub>6</sub>H<sub>15</sub>N

Atomic weight: 101,19

CAS N: 142-84-7

EEC N: 205-565-9

Transport classification

ONU n. 2383

Transport class: 3

Secondary risk: 8

Packaging group: II



R: 11-20/21/22-35  
S: 16-26-36/37/39-45

## n-Dipropylammine - Analytical Grade

RPE-For analysis



Assay (GLC) >=99 % Description Clear colourless liquid Density at 20° C 0.733 ± 0.743  
Refractive index at 20° 1.3996 ± 1.4096 Boiling point 108.9 ± 110.9 ° C Residue on evaporation <=100 ppm

Code	Size	Packaging
445971	ml 250	Glass bottle

## α,α'-Dipyridyl

α,α'-Dipiridile - α,α'-Dipyridyle - α,α'-Dipiridilo

N:CHCH:CHCH:CC:CHCH:N

Atomic weight: 156,18

CAS N: 366-18-7

EEC N: 206-674-4

Transport classification

ONU n. 2811

Transport class: 6.1

Packaging group: III



R: 21/22  
S: 23-36/37

**$\alpha, \alpha'$ -Dipyridyl - Analytical Grade****RPE-For analysis**

Assay (GLC)  $\geq 99.0\%$  Description Polvere crist. quasi bianca Melting point  $69 \pm 72^\circ \text{C}$   
Residue on ignition  $\leq 0.1\%$  Iron sensitivity Conform

Code	Size	Packaging
445958	g 5	Glass jar

**Disulphine blue VN**

Blu disulfina VN - Bleu disulfine VN - Azul de disulfina VN

$\text{C}_{27}\text{H}_{31}\text{N}_2\text{NaO}_6\text{S}_2$   
Atomic weight: 566,70  
CAS N: 129-17-9  
EEC N: 204-934-1



R: 20/21/22  
S: 28-45

**Disulphine blue VN - Analytical Grade****RPE-For analysis-C.I. 42045**

Description Blue powder

Code	Size	Packaging
428831	g 10	Glass jar

Stain for Microscopy (hystochemistry).

**Dithiooxamide**

Ditioossammide - Dithiooxamide - Ditiooxamida

$\text{NH}_2\text{CSCSNH}_2$   
Atomic weight: 120,19  
CAS N: 79-40-3  
EEC N: 201-203-9

Synonyms  
Acide rubéanique

**Dithiooxamide - Analytical Grade****RPE-For analysis**

Assay (ex nitrogen)  $\geq 98\%$  Description Red orange crystals Residue on ignition  $\leq 500$  ppm  
Copper sensitivity  $\leq 0.05 \mu\text{g/ml}$

Code	Size	Packaging
446008	g 5	Plastic jar

**n-Dodecyl alcohol**

Alcole n-dodecilico - Dodécanol-1 - Alcohol dodecilico

$\text{CH}_3(\text{CH}_2)_{10}\text{CH}_2\text{OH}$   
Atomic weight: 186,33  
CAS N: 112-53-8  
EEC N: 203-982-0



R: 38

**n-Dodecyl alcohol - Analytical Grade****RPE-For analysis**

Assay (GLC)  $\geq 98\%$  Description Clear colourless liquid Melting point  $22.0 \pm 27.0^\circ \text{C}$

Code	Size	Packaging
414522	ml 1000	Glass bottle

**Dodecylbenzenesulphonic acid sodium salt**

Acido dodecilbenzensolfonico sale sodico - Acide dodécylbenzènesulfonique sel sodique - Acido dodecilbensensulfónico sal sódico

$\text{C}_{22}\text{H}_{35}\text{O}_2\text{S}_2\text{Na}$   
Atomic weight: 348,49  
CAS N: 25155-30-0  
EEC N: 246-680-4



R: 22-36/38  
S: 28

**Dodecylbenzenesulphonic acid sodium salt - Special Grade****RS-Standard for detection of surfactants (biodegradable)**

Assay  $> 83\%$  Description White-yellowish crystalline powder pH sol. 1% 6.5 + 9.5  
Water  $< 2\%$

Code	Size	Packaging
405351	g 10	Glass jar

Biodegradable  $> 90\%$

**Dulcitol**

Dulcite - Dulcitol - Dulcita

$\text{CH}_2\text{OH}(\text{CHOH})_4\text{CH}_2\text{OH}$   
Atomic weight: 182,17  
CAS N: 608-66-2  
EEC N: 210-165-2

**Dulcitol - Analytical Grade**

## Dulcitol - Analytical Grade

## RPE-For analysis



Assay (GLC) >= 99.0 %	Description White powder	Melting point 188 + 189 °C
Loss on drying <= 0.1 %	Residue on ignition <= 0.1 %	Heavy metals (Pb) <= 10 ppm
As <= 0.5 ppm	Fe <= 5 ppm	

Code	Size	Packaging
446158	g 5	Glass jar

For biochemistry

## Dysprosium

Disprosio - Dysprosium - Disprosio

Dy

Transport classification  
ONU n. 3264R: 34  
S: 26-36/37/39-45

## Dysprosium - Special Grade

## RS-Standard solution for ICP



Code	Size	Packaging	Notes
504231	ml 100	Plastic bottle	Matrice: Nitric acid, conc. 1.000 ppm
504235	ml 100	Plastic bottle	Matrice: Nitric acid, conc. 10.000 ppm
504233	ml 500	Plastic bottle	Matrice: Nitric acid, conc. 1.000 ppm
504237	ml 500	Plastic bottle	Matrice: Nitric acid, conc. 10.000 ppm

Provided with real batch certificate. Verified against NIST Standard Reference

For further information on above products, see following product/application section(s)

Trace metal analysis (p. 86)

## RS-Standard solution for ICP-MS



Code	Size	Packaging	Notes
505581	ml 50	Plastic bottle	Matrice: Nitric acid, conc. 10 ppm
505582	ml 100	Plastic bottle	Matrice: Nitric acid, conc. 10 ppm
505585	ml 100	Plastic bottle	Matrice: Nitric acid, conc. 100 ppm

For further information on above products, see following product/application section(s)

Trace metal analysis (p. 86)

## Ehrlich's reagent

Ehrlich reattivo - Réactif d'Ehrlich - Ehrlich reactivo

Transport classification  
ONU n. 3264  
Transport class: 8  
Packaging group: IIIR: 36/37/38  
S: 26

## Ehrlich's reagent - Special Grade

## RS-For microscopy



Description Yellow clear liquid

Code	Size	Packaging
446302	ml 500	Glass bottle

For the analysis of urines

## Eluent for IC sodium bicarbonate

## Eluent for IC sodium bicarbonate - Special Grade

## RS-Eluent concentrates for ion chromatography



Code	Size	Packaging	Notes
504534	ml 100	Plastic bottle	0,17 M Sodium bicarbonate

For further information on above products, see following product/application section(s)

Chromatography (p. 34)

## Eluent for IC sodium carbonate

Eluente per IC sodio carbonato - Eluant sodium carbonate pour chromatographie ionique - Eluyente sodio carbonato para cromatografía iónica

## Eluent for IC sodium carbonate - Special Grade

## RS-Eluent concentrates for ion chromatography



Code	Size	Packaging	Notes
504533	ml 100	Plastic bottle	0,5 M Sodium carbonate

For further information on above products, see following product/application section(s)

Chromatography (p. 34)

## Eluent for IC sodium carbonate/sodium bicarbonate

Transport classification  
ONU n. 3264R: 34  
S: 26-36/37/39-45A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
M  
N  
O  
P  
Q  
R  
S  
T  
U  
V  
W  
X  
Y  
Z

## Eluent for IC sodium carbonate/sodium bicarbonate - Special Grade

## RS-Eluent concentrates for ion chromatography



Code	Size	Packaging	Notes
504530	ml 100	Plastic bottle	0,18 M Sodium carbonate / 0,17 M Sodium bicarbonate
504531	ml 100	Plastic bottle	0,22 M Sodium carbonate / 0,28 M Sodium bicarbonate
504532	ml 100	Plastic bottle	0,35 M Sodium carbonate / 0,1 M Sodium bicarbonate

For further information on above products, see following product/application section(s)  
Chromatography (p. 34)

## Eosin B

Eosina B - Eosine B - Eosina B

 $C_{20}H_{11}Br_2Na_2O_5$   
 Atomic weight: 624,08  
 CAS N: 548-24-3  
 EEC N: 208-943-1
R: 20/21/22  
S: 13-22

## Eosin B - Analytical Grade

## RPE-For analysis-C.I. 45400



Description Brown greyish powder      Absorbtion ind.sensit. Conform

Code	Size	Packaging
446602	g 25	Glass jar

Stain for Microscopy (hystology).

For further information on above products, see following product/application section(s)  
Indicators (p. 50)  
Microscopy (p. 58)

## Eosin ethyl

Eosina etile - Ethyl-éosine - Eosina de etilo

 $C_{22}H_{11}Br_2KO_5$   
 Atomic weight: 714,03  
 CAS N: 6359-05-3  
 EEC N: 228-793-0
R: 20/22  
S: S: 22-24/25

## Eosin ethyl - Special Grade

## RS-For microscopy-C.I. 45386

Description Red- brick powder      Identification (I.R.) Positive      Loss on drying <= 5 %  
Residue on ignition 10.0 ± 14.0 %

Code	Size	Packaging
446622	g 25	Glass bottle

## Eosin Y

Eosina Y - Eosine Y - Eosina Y

 $C_{20}H_{11}Br_2Na_2O_5$   
 Atomic weight: 691,86  
 CAS N: 17372-87-1  
 EEC N: 241-409-6
R: 20/22  
S: 22-24

## Eosin Y - Special Grade

## RS-For microscopy-C.I. 45380



Description Red-brown powder      Loss on drying &lt;= 10 %      Sens. as absorption indicator Conform

Code	Size	Packaging
446632	g 25	Glass jar
446634	g 100	Plastic jar

Stain for Histology.

For further information(s) on above products, see following product/application section(s)  
Indicators (p. 50)  
Microscopy (p. 58)

## Eosin Y solution aqueous

Eosina Y soluzione acquosa - Eosine Y en solution aqueuse - Eosina Y solución acuosa

 $C_{20}H_{11}Br_2Na_2O_5$   
 Atomic weight: 691,86  
 CAS N: 17372-87-1  
 EEC N: 241-409-6
R: 20/22  
S: 22-24

## Eosin Y solution aqueous - Special Grade

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
M  
N  
O  
P  
Q  
R  
S  
T  
U  
V  
W  
X  
Y  
Z

## Eosin Y solution aqueous - Special Grade

## RS-For microscopy-C.I. 45380



Description Brown liquid Eosina Y 1.10 + 1.20 %

Code	Size	Packaging
446644	ml 1000	Plastic jar

For further information on above products, see following product/application section(s)  
Microscopy (p. 58)

## Eosin Y solution alcoholic

*Eosina Y soluzione alcolica - Eosine Y en solution alcoolique - Eosina Y solución alcohólica*

**C<sub>20</sub>H<sub>6</sub>Br<sub>4</sub>Na<sub>2</sub>O<sub>6</sub>**  
Atomic weight: 691,860  
CAS N: 17372-87-1  
EEC N: 241-409-6

Transport classification  
ONU n. 1170  
Transport class: 3,3°B



R: 20/22  
S: 7-16

## Eosin Y solution alcoholic - Special Grade

## RS-For microscopy-C.I. 45380



Description Red- brick powder Identification (I.R.) Positive Assorbanza a 515 nm &gt;= 0.60

Code	Size	Packaging
446664	ml 1000	Glass bottle

For further information on above products, see following product/application section(s)  
Microscopy (p. 58)

## Epichlorhydrin

*Epicloridrina - Epichlorhydrine - Epiclorohidrina*

**CH<sub>2</sub>ClCH<sub>2</sub>O**  
Atomic weight: 92,53  
CAS N: 106-89-8  
EEC N: 203-439-8

Transport classification  
ONU n. 2023  
Transport class: 6.1  
Secondary risk: 3  
Packaging group: II



R: 45-10-23/24/25-34-43  
S: 53-45

## Epichlorhydrin - Analytical Grade

## RPE-For analysis



Assay (GLC) >= 98.5 % Description Clear liquid Colour (APHA) <= 15  
Refractive index at 20° 1.4365 + 1.4385 Water <= 0.02 %

Code	Size	Packaging
446752	ml 1000	Glass bottle

## Erbium

*Erbio - Erbium - Erbio*

Er

Transport classification  
ONU n. 3264



R: 34  
S: 26-36/37/39-45

## Erbium - Special Grade

## RS-Standard solution for ICP



Code	Size	Packaging	Notes
504241	ml 100	Plastic bottle	Matrice: Nitric acid, conc. 1.000 ppm
504245	ml 100	Plastic bottle	Matrice: Nitric acid, conc. 10.000 ppm
504243	ml 500	Plastic bottle	Matrice: Nitric acid, conc. 1.000 ppm
504247	ml 500	Plastic bottle	Matrice: Nitric acid, conc. 10.000 ppm

Provided with real batch certificate. Verified against NIST Standard Reference

For further information on above products, see following product/application section(s)  
Trace metal analysis (p. 86)

## RS-Standard solution for ICP-MS



Code	Size	Packaging	Notes
505591	ml 50	Plastic bottle	Matrice: Nitric acid, conc. 10 ppm
505592	ml 100	Plastic bottle	Matrice: Nitric acid, conc. 10 ppm
505595	ml 100	Plastic bottle	Matrice: Nitric acid, conc. 100 ppm

For further information on above products, see following product/application section(s)  
Trace metal analysis (p. 86)

## Eriochrome black T

*Nero eriocromo T - Noir ériochrome T - Negro de eriocromo T*

**C<sub>20</sub>H<sub>12</sub>NaNaO<sub>7</sub>S**  
Atomic weight: 461,39  
CAS N: 1787-61-7  
EEC N: 217-250-3



R: 20/21/22

## Eriochrome black T - Analytical Grade

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
M  
N  
O  
P  
Q  
R  
S  
T  
U  
V  
W  
X  
Y  
Z**Eriochrome black T - Analytical Grade****RPE-For analysis-C.I. 14645**

Description Blackish brown powder Loss on drying &lt;= 10 % Sensitivity Conform

Code	Size	Packaging
464221	g 10	Glass jar

Complexometry indicator

For further information on above products, see following product/application section(s)  
Indicators (p. 50)**Eriochromocyanine R**

Eriocromo cianina R - Eriochrome cyanine R - Eriocromocianina R

**C<sub>22</sub>H<sub>16</sub>Na<sub>3</sub>O<sub>8</sub>S**

Atomic weight: 536,40

CAS N: 3564-18-9

EEC N: 222-641-7

**Eriochromocyanine R - Analytical Grade****RPE-For analysis-C.I. 43820**

Description Red brick powder Aluminium sensitivity &gt;=1 µg/ml

Code	Size	Packaging
446811	g 10	Glass jar

For the analysis of Al. Icomplexometric indicator

For further information on above products, see following product/application section(s)  
Indicators (p. 50)**Erythrosin extra B**

Eritrosina extra B - Erythrosine extra B - Eritrosina extra B

**C<sub>20</sub>H<sub>16</sub>O<sub>8</sub>Na<sub>2</sub>**

Atomic weight: 879,8

CAS N: 16423-68-0

EEC N: 240-474-8



R: 20/22

**Erythrosin extra B - Special Grade****RS-For microscopy-C.I. 45430**

Description Red brown powder Assorbanza a 525 nm &gt;= 0.64

Code	Size	Packaging
446971	g 100	Plastic jar

Stain for Histology.

For further information on above products, see following product/application section(s)  
Microscopy (p. 58)**Esbach's reagent**

Esbach reattivo - Réactif d'Esbach - Esbach reactivo

**Esbach's reagent - Special Grade****RS-For microscopy**

Description Yellow clear liquid

Code	Size	Packaging
446981	ml 1000	Plastic bottle

For the analysis of albumin

For further information on above products, see following product/application section(s)  
Microscopy (p. 58)**Eschka's mixture**

Miscela Eschka - Mélange d'Eschka - Mezcla de Eschka

**Eschka's mixture - Special Grade****RS-For sulphur detection**Description White powder Composition MgO 60 ± 70 % Composition K<sub>2</sub>CO<sub>3</sub> 10 ± 20 %  
Composition Na<sub>2</sub>CO<sub>3</sub> 10 ± 20 % Sulphur compounds <=10 ppm HCl-insoluble matter <=100 ppm

Code	Size	Packaging
463306	g 500	Plastic jar

**Ethanol absolute**

Alcole etilico assoluto - Ethanol absolu - Alcohol etilico assoluto

**C<sub>2</sub>H<sub>6</sub>O**

Atomic weight: 46,070

CAS N: 64-17-5

EEC N: 200-578-6

Transport classification

ONU n. 1170

Transport class: 3

Packaging group: II

R: 11  
S: 7-16**Ethanol absolute - Analytical Grade**

## Ethanol absolute - Analytical Grade

## RPE-ACS-for analysis-Reag. Ph.Eur.-Reag. USP



<b>Assay(alcohol.) at 20°C &gt;=99.8 % (V/V)</b>	<b>Assay (GLC) &gt;=99.5 % (v/v)</b>	Description Clear liquid
Colour (APHA) <=10	Water miscibility Conform ACS	Furfural Conform
Tail products Conform	Substances darkened by sulphuric acid Conform ACS	Density at 20° C 0.790 + 0.793
Boiling point 78.3 + 78.8 °C	Water (K.F.) <=0.2 %	Residue on evaporation <=10 ppm
Acidity (acetic acid) <=10 ppm	Alcalinity (NH3) <=1 ppm	Isopropyl alcohol <=30 ppm
Methyl alcohol <=100 ppm	Carbonyl Compounds (CO) <=5 ppm	Subst. reducing KMnO4 <=3 ppm
Al <=0.5 ppm	B <=0.02 ppm	Ba <=0.1 ppm
Ca <=0.5 ppm	Cd <=0.05 ppm	Co <=0.02 ppm
Cr <=0.02 ppm	Cu <=0.02 ppm	Fe <=0.1 ppm
Mg <=0.1 ppm	Mn <=0.02 ppm	Ni <=0.02 ppm
Pb <=0.1 ppm	Sn <=0.1 ppm	Zn <=0.1 ppm
Absorbance Conform Ph Eur	Volatile impurities Conform Ph Eur	

Code	Size	Packaging
414601	ml 1000	Plastic bottle
414607	ml 1000	Glass bottle
414605	ml 2500	Plastic bottle
414608	ml 2500	Glass bottle
414603	ml 5000	Metallic can
414606	ml 5000	Bottle
414609	l 25	Polythene-metal drum
414602	l 200	Metal drum

For further information on above products, see following product/application section(s)

Microscopy (p. 58)

## Ethanol absolute - Special Grade

## RS-For optical spectroscopy



<b>Assay (GLC) &gt;=99.8 %</b>	Description Clear colourless liquid	Density at 20° C 0.7893 + 0.7899
Boiling point 78.3 + 78.8 °C	Acidity or alkalinity <=0.0002 meq/g	Water (K.F.) <=0.2 %
Residue on evaporation <=10 ppm	<b>Fluorescence -</b>	at 254 nm <=2 ppb
at 365 nm <=2 ppb	<b>U.V. Transmittance -</b>	at 210 nm >=25 %
at 220 nm >=50 %	at 230 nm >=75 %	at 250 nm >=89 %
at 270 nm >=94 %	at 290 nm >=97 %	

Code	Size	Packaging
414677	ml 1000	Glass bottle

Spectrophotometric analysis (1 cm - ref. Water)

For further information on above products, see following product/application section(s)

Solvents for spectroscopy (p. 68)

## Ethanol absolute - Technical Grade

## RE-Pure



<b>Assay(alcohol.) at 20°C &gt;=99.5 % (v/v)</b>	Description Clear colourless liquid	Density at 20° C 0.7866 + 0.7926
Boiling point 78.0 + 79.0 °C	Water (K.F.) <=0.5 %	Residue on evaporation <=50 ppm
Acidity (acetic acid) <=50 ppm		

Code	Size	Packaging
308602	ml 1000	Plastic bottle
308607	ml 1000	Glass bottle
308603	ml 2500	Glass bottle
308605	ml 2500	Plastic bottle
308601	l 25	Metal drum

## Ethanol 96°

Alcole etilico 96° - Ethanol 96° - Alcohol etilico 96°

**CaH<sub>5</sub>OH**  
Atomic weight: 46,070  
CAS N: 64-17-5  
EEC N: 200-578-6

**Transport classification**  
ONU n. 1170  
Transport class: 3  
Packaging group: II



R: 11  
S: 7-16

## Ethanol 96° - Analytical Grade



## Ethanol 96° - Analytical Grade

## RPE-ACS-for analysis-Reag. Ph.Eur.-Reag. USP



<b>Assay(alcohol.) at 20°C 96.0 + 96.9 % (v/v)</b>	<b>Assay(densim.) at 15.5° 94.9 + 96.0 % (v/v)</b>	<b>Assay (GLC) &gt;=95.0 %</b>
Description Clear liquid	Colour (APHA) <=10	Identification (I.R.) Positive
Appearance of solution Conform USP	Absorbance Conform Ph Eur	Volatile impurities Conform Ph Eur
Water miscibility Conform ACS	Substances darkened by sulphuric acid Conform ACS	Density at 20° C 0.8050 + 0.8124
Densità a 15.5°C 0.812 + 0.816	Boiling point 78.0 + 79.0 ° C	Residue on evaporation <=10 ppm
Acidity (acetic acid) <=30 ppm	Alcalinity (NH3) <=0.0002 meq/g	Alcole isopropilico-acetone Conform
Methyl alcohol <=0.1 %	Carbonyl Compounds (CO) <=5 ppm	Subst. reducing KMnO4 <=3 ppm
Ba <=0.1 ppm	Ca <=0.5 ppm	Cd <=0.05 ppm
Co <=0.02 ppm	Cr <=0.02 ppm	Cu <=0.02 ppm
Fe <=0.1 ppm	Mg <=0.1 ppm	Mn <=0.02 ppm
Ni <=0.02 ppm	Pb <=0.1 ppm	Sn <=0.1 ppm
Zn <=0.1 ppm		

Code	Size	Packaging
414638	ml 250	Glass bottle
414634	ml 1000	Plastic bottle
414637	ml 1000	Glass bottle
414631	ml 2500	Glass bottle
414632	ml 2500	Plastic bottle
414639	l 25	Polythene-metal drum
414633	l 200	Metal drum

For further information on above products, see following product/application section(s)

Microscopy (p. 58)

## Ethanol 96° - Special Grade

## RS-For optical spectroscopy



<b>Assay(alcohol.) at 20°C &gt;=96.0 % (v/v)</b>	Description Clear colourless liquid	Colour (APHA) <=10
Density at 20° C 0.8050 + 0.8124	Boiling point 78.0 + 79.0 ° C	Acidity or alkalinity <=0.0005 meq/g
Residue on evaporation <=10 ppm	<b>Fluorescence -</b>	at 254 nm <=2 ppb
at 365 nm <=2 ppb	<b>U.V. Transmittance -</b>	at 210 nm >=35 %
at 220 nm >=55 %	at 230 nm >=72 %	at 250 nm >=90 %
at 270 nm >=98 %		

Code	Size	Packaging
414667	ml 1000	Glass bottle

Spectrophotometric analysis (1 cm - ref. Water)

For further information on above products, see following product/application section(s)

Solvents for spectroscopy (p. 68)

## Ethanol 96° - Pharmaceutical Grade

## RPH-According to pharmacopoeia: Ph.Eur.-USP



<b>Assay(densim.) at 15.5° 94.9 + 96.0 % v/v</b>	<b>Assay(alcohol.) at 20°C 95.1 + 96.9 % v/v</b>	Description Clear colourless liquid
Density at 20° C 0.805 + 0.812	Densità a 15.5°C 0.812 + 0.816	Acidity or alkalinity Conform Ph.Eur.
Absorbance Conform Ph.Eur.	Volatile impurities Conform Ph.Eur.	Residue on evaporation <=0.0025 % m/v
Appearance of solution Conform Ph.Eur.	Boiling point ~ 78 ° C	Origin (BSE/TSE) Vegetable
Residual solvents (CPMP/ICH/283/95) Conform		

Code	Size	Packaging
308644	ml 1000	Plastic bottle
308647	ml 1000	Glass bottle
308641	ml 2500	Glass bottle
308649	ml 2500	Plastic bottle
529141	ml 5000	Plastic tank
308646	l 10	Plastic bottle
308648	l 27	Polythene-metal drum
308643	l 200	Metal drum

## Ethanol 70%

Alcole etilico 70% - Ethanol 70% v/v - Alcohol etilico 70%

**CaH<sub>6</sub>O**  
Atomic weight: 48,03  
CAS N: 64-17-5  
EEC N: 200-578-6

**Transport classification**  
ONU n. 1170  
Transport class: 3  
Packaging group: II



R: 11  
S: 7-16-23,3-51

## Ethanol 70% - Technical Grade

## RE-Pure



<b>Assay(alcohol.) at 20°C &gt;= 70 % (v/v)</b>	Description Clear liquid	Colour Incolore
Acidity <= 0.003 %	Alcalinity <= 3 ppm	Methanol <= 100 ppm
Residue on evaporation <= 30 ppm	Water miscibility Conform ACS	Substances darkened by sulphuric acid Conform ACS
Substances reducing KMnO4 (O) <= 3 ppm		

Code	Size	Packaging
308771	ml 2500	Bottle

## Ethanol absolute denaturated

Alcole etilico assoluto denaturato - Ethanol absolu dénaturé - Alcohol etílico absoluto desnaturalizado

**C<sub>2</sub>H<sub>5</sub>OH**  
Atomic weight: 46,070  
CAS N: 64-17-5  
EEC N: 200-578-6

**Transport classification**  
ONU n. 1170  
Transport class: 3  
Packaging group: II

  
R: 11  
S: 7-16

## Ethanol absolute denaturated - Technical Grade

## RE-Pure



**Assay (alcohol.) at 20°C >= 99.7 % (V/V)**  
Boiling point 77 + 79 °C

Description Clear pink liquid

Density at 15° C - 0.794

Code	Size	Packaging
308652	l 200	Metal drum

## Ethanol anhydrous

Alcole etilico anidro - Ethanol anhydre - Alcohol etílico anhidro

**C<sub>2</sub>H<sub>5</sub>OH**  
Atomic weight: 46,070  
CAS N: 64-17-5  
EEC N: 200-578-6

**Transport classification**  
ONU n. 1170  
Transport class: 3  
Packaging group: II

  
R: 11  
S: 7-16

## Ethanol anhydrous - Analytical Grade

## RPE-For analysis



Assay (GLC) &gt;=99.9 %

Description Clear liquid

Colour (APHA) &lt;=10

Identification (I.R.) Conform

Water miscibility Conform

Furfural Conform

Tail products Conform

Ready carbonizable substances Conform

Density at 20° C 0.7866 + 0.7926

Refractive index at 20° 1.3602 + 1.3622

Boiling point 78.3 + 78.8 ° C

Water (K.F.) &lt;=0.1 %

Residue on evaporation &lt;=10 ppm

Acidity (acetic acid) &lt;=10 ppm

Alcalinity (NH<sub>3</sub>) <=1 ppm

Isopropyl alcohol &lt;=30 ppm

Methyl alcohol &lt;=100 ppm

Carbonyl Compounds (CO) &lt;=5 ppm

Subst. reducing KMnO<sub>4</sub> <=3 ppm

Al &lt;=0.5 ppm

B &lt;=0.02 ppm

Ba &lt;=0.1 ppm

Ca &lt;=0.5 ppm

Cd &lt;=0.05 ppm

Co &lt;=0.02 ppm

Cr &lt;=0.02 ppm

Cu &lt;=0.02 ppm

Fe &lt;=0.1 ppm

Mg &lt;=0.1 ppm

Mn &lt;=0.02 ppm

Ni &lt;=0.02 ppm

Pb &lt;=0.1 ppm

Sn &lt;=0.1 ppm

Zn &lt;=0.1 ppm

Code	Size	Packaging
414573	ml 1000	Plastic bottle
414577	ml 1000	Glass bottle
414571	ml 2500	Glass bottle
414575	ml 2500	Plastic bottle
414578	l 25	Polythene-metal drum

## Ethanol anhydrous - Special Grade

## RS-Anhydrous-for analysis



Assay (GLC) &gt;=99.8 %

Description Clear colourless liquid

Identification (I.R.) Positive

Acidity &lt;=0.0005 meq/g

Alcalinity &lt;=0.0002 meq/g

Residue on evaporation &lt;=10 ppm

Water (K.F.) &lt;=200 ppm

Acetone &lt;=0.01 %

Methyl alcohol &lt;=0.05 %

Isopropyl alcohol &lt;=0.1 %

Al &lt;=0.5 ppm

Ba &lt;=0.1 ppm

Ca &lt;=0.5 ppm

Cu &lt;=0.02 ppm

Fe &lt;=0.1 ppm

Pb &lt;=0.1 ppm

Zn &lt;=0.1 ppm

Code	Size	Packaging
414701	ml 1000	Glass bottle

## RS-For HPLC-Isocratic Grade



Assay (GLC) &gt;=99.8 %

Description Clear colourless liquid

Density at 20° C 0.7893 + 0.7899

Refractive index at 20° 1.3602 + 1.3622

Boiling point 78.3 + 78.8 ° C

Acidity or alkalinity &lt;=0.0002 meq/g

Water (K.F.) &lt;=0.1 %

Residue on evaporation &lt;=10 ppm

**U.V. Transmittance -**

at 210 nm &gt;=25 %

at 220 nm &gt;=50 %

at 230 nm &gt;=75 %

at 250 nm &gt;=89 %

at 270 nm &gt;=94 %

at 290 nm &gt;=97 %

Code	Size	Packaging
412522	ml 2500	Glass bottle

For further information on above products, see following product/application section(s)

Chromatography (p. 34)

## Ethanol anhydrous - Special Grade

## RS-For HPLC-PLUS-Gradient Grade



<b>Assay (GLC) &gt;=99.8 %</b>	Description Clear colourless liquid	Density at 20° C 0.7893 ± 0.7899
Refractive index at 20° 1.3602 ± 1.3622	Boiling point 78.3 ± 78.8 ° C	Acidity or alkalinity <=0.0002 meq/g
Water (K.F.) <=0.1 %	Residue on evaporation <=10 ppm	<b>Fluorescence -</b>
at 254 nm <=2 ppb	at 365 nm <=2 ppb	<b>U.V. Transmittance -</b>
at 210 nm >=25 %	at 220 nm >=50 %	at 230 nm >=75 %
at 250 nm >=89 %	at 270 nm >=94 %	at 290 nm >=97 %

Code	Size	Packaging
412701	ml 1000	Glass bottle
412702	ml 2500	Glass bottle

For further information on above products, see following product/application section(s)

Chromatography (p. 34)

## RS-For preparative HPLC



<b>Assay (GLC) &gt;=99.9 %</b>	Description Clear colourless liquid	Density at 20° C 0.7893 ± 0.7899
Refractive index at 20° 1.3602 ± 1.3622	Water (K.F.) <=0.1 %	Residue on evaporation <=10 ppm
Alcalinity <=0.0002 meq/g	<b>U.V. Transmittance -</b>	at 220 nm >=50 %
at 270 nm >=98 %		

Code	Size	Packaging
414643	l 23	Drum

## RS-MOS For electronic use-ERBATRON



<b>Assay (GLC) &gt;=99.9 %</b>	Description Clear colourless liquid	Colour (APHA) <=10
Water miscibility Conform	Ready carbonizable substances Conform	Density at 20° C 0.7893 ± 0.7899
Boiling point 78.3 ± 78.8 ° C	Resistivity >=0.5 Mohm cm	Water (K.F.) <=0.1 %
Residue on evaporation <=10 ppm	Acidity (acetic acid) <=10 ppm	Alcalinity (NH3) <=1 ppm
Methyl alcohol <=100 ppm	Chloride <=0.2 ppm	Carbonyl Compounds (CO) <=10 ppm
Phosphate <=0.5 ppm	Heavy metals (Pb) <=0.2 ppm	Subst. reducing KMnO4 <=2.5 ppm
Total sulphur <=1 ppm	Ag <=0.02 ppm	Al <=0.05 ppm
As <=0.01 ppm	Au <=0.05 ppm	B <=0.01 ppm
Ba <=0.1 ppm	Be <=0.02 ppm	Bi <=0.02 ppm
Ca <=0.5 ppm	Cd <=0.01 ppm	Co <=0.01 ppm
Cr <=0.02 ppm	Cu <=0.02 ppm	Fe <=0.1 ppm
Ga <=0.02 ppm	In <=0.02 ppm	K <=0.1 ppm
Li <=0.02 ppm	Mg <=0.1 ppm	Mn <=0.01 ppm
Mo <=0.05 ppm	Na <=0.5 ppm	Ni <=0.01 ppm
Pb <=0.02 ppm	Pt <=0.05 ppm	Sb <=0.01 ppm
Sn <=0.02 ppm	Sr <=0.02 ppm	Ti <=0.05 ppm
Tl <=0.05 ppm	V <=0.05 ppm	Zn <=0.03 ppm
Zr <=0.05 ppm		

Code	Size	Packaging
414692	ml 2500	Glass bottle

Minimum order: 48 bottles

## RS-RSE For electronic use-ERBATRON



<b>Assay(alcohol.) at 20°C &gt;=99.9 %</b>	Description Clear colourless liquid	Colour (APHA) <=10
Water miscibility Conform	Ready carbonizable substances Conform	Density at 20° C 0.790 ± 0.793
Boiling point 78.3 ± 78.8 ° C	Resistivity >=0.5 Mohm cm	Water (K.F.) <=0.1 %
Residue on evaporation <=10 ppm	Acidity (acetic acid) <=10 ppm	Alcalinity (NH3) <=1 ppm
Methyl alcohol <=100 ppm	Chloride <=0.2 ppm	Carbonyl Compounds (CO) <=10 ppm
Phosphate <=0.5 ppm	Heavy metals (Pb) <=0.2 ppm	Subst. reducing KMnO4 <=2.5 ppm
Total sulphur <=1 ppm	Ag <=0.02 ppm	Al <=0.05 ppm
As <=0.01 ppm	Au <=0.05 ppm	B <=0.01 ppm
Ba <=0.1 ppm	Be <=0.02 ppm	Bi <=0.02 ppm
Ca <=0.5 ppm	Cd <=0.01 ppm	Co <=0.01 ppm
Cr <=0.02 ppm	Cu <=0.02 ppm	Fe <=0.1 ppm
Ga <=0.02 ppm	In <=0.02 ppm	K <=0.1 ppm
Li <=0.02 ppm	Mg <=0.1 ppm	Mn <=0.01 ppm
Mo <=0.05 ppm	Na <=0.5 ppm	Ni <=0.01 ppm
Pb <=0.02 ppm	Pt <=0.05 ppm	Sb <=0.01 ppm
Sn <=0.02 ppm	Sr <=0.02 ppm	Ti <=0.05 ppm
Tl <=0.05 ppm	V <=0.05 ppm	Zn <=0.03 ppm
Zr <=0.05 ppm		

Code	Size	Packaging
414587	ml 1000	Glass bottle
414583	ml 2500	Glass bottle

## Ethanol anhydrous - Pharmaceutical Grade

## RPH-According to pharmacopoeia: Ph.Eur.



<b>Assay(alcohol.) at 20°C &gt;=99.5 % v/v</b>	Description Clear colourless liquid	Relative density 0.790 ± 0.794
Boiling point ~ 78 ° C	Appearance of solution Conform Ph.Eur.	Absorbance Conform Ph.Eur.
Volatile impurities Conform Ph.Eur.	Acidity or alkalinity <=0.003 %	Residue on evaporation <=0.0025 % m/v
Origin (BSE/TSE) Vegetable	Residual solvents (CPMP/ICH/283/95) Conform	

Code	Size	Packaging
308615	l 25	Drum

## Ethanol anhydrous - Pharmaceutical Grade

## RPH-According to pharmacopoeia: Ph.Eur.-USP-BP



Assay (alcohol.) at 20°C >=99.5 % (v/v)	Description Clear colourless liquid	Appearance of solution Conform Ph.Eur.
Absorbance Conform Ph.Eur.	Volatile impurities Conform Ph.Eur.	Acidity or alkalinity <=30 ppm
Density at 20° C 0.790 ± 0.793	Boiling point ~ 78 °C	Residue on evaporation <=25 ppm m/v
Origin (BSE/TSE) Vegetable	Residual solvents (CPMP/ICH/283/95) Conform	

Code	Size	Packaging
308661	ml 2500	Plastic bottle
308662	ml 2500	Glass bottle
308665	l 23	Glass-polystyrene container
308664	l 25	Polythene-metal drum
308663	l 200	Metal drum

Spectrophotometric analysis (1 cm - ref. Water)

## Ethanol-d6 anhydrous

Alcole etilico anidro-d6 - Ethanol anhydre-d6 - Alcohol etilico anhidro-d6

CD<sub>3</sub>CD<sub>2</sub>ODAtomic weight: 52,120  
CAS N: 1516-01-6  
EEC N: 200-578-6Transport classification  
ONU n. 1170  
Transport class: 3  
Packaging group: IIR: 11  
S: 7-16

## Ethanol-d6 anhydrous - Special Grade

## RS-For NMR spectroscopy



Code	Size	Packaging	Notes
P5262A	2 x ml 1	Ampoule	Isotopic purity 99,00%

For further information on above products, see following product/application section(s)  
NMR Spectroscopy (p. 65)

## Ethanolamine

Etanolamina - Ethanolamine - Etanolamina

NH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>OHAtomic weight: 61,084  
CAS N: 141-43-5  
EEC N: 205-483-3Transport classification  
ONU n. 2491  
Transport class: 8  
Packaging group: IIIR: 20/21/22-34  
S: 26-36/37/39-45Synonyms  
2-Aminoethanol

## Ethanolamine - Analytical Grade

## RPE-For analysis



Assay (alkalimetric) >=99 %	Description Clear colourless liquid	Water miscibility Conform
Alcohol miscibility complete	Refractive index at 20° 1.4491 ± 1.4591	Boiling point 169.5 ± 170.5 °C
Melting point 9.8 ± 10.8 ° C	Chloride <=10 ppm	Diethanolamine <=0.5 %
Heavy metals (Pb) <=2 ppm	Residue on ignition <=50 ppm	Sulphate <=20 ppm
Triethanolamine <=0.5 %	Fe <=1 ppm	

Code	Size	Packaging
447351	ml 1000	Glass bottle
447352	kg 30	Metallic can

## 2-Ethoxyethanol

2-Etossietanolo - Glycol éthylique monoéthyléther - 2-Ethoxietanol

CH<sub>3</sub>CH<sub>2</sub>OCH<sub>2</sub>CH<sub>2</sub>OHAtomic weight: 90,123  
CAS N: 110-80-5  
EEC N: 203-804-1Transport classification  
ONU n. 1171  
Transport class: 3  
Packaging group: IIIR: 60-61-10-20/21/22  
S: 53-45

## 2-Ethoxyethanol - Analytical Grade

## PA-PUREX-for analysis



Assay (GC) >= 99 %	Refractive index at 20°C 1.406 - 1.41	Water content (K.F.) <= 1000 mg/Kg
Colour <= 10 Hazen	Non volatile residue <= 10 mg/Kg	Free acid (as CH <sub>3</sub> COOH) <= 50 mg/Kg

Code	Size	Packaging
P0460521	ml 2500	Glass bottle

## RPE-For analysis



Assay (GLC) >=99 %	Description Clear colourless liquid	Density at 20° C 0.927 ± 0.933
Refractive index at 20° 1.4055 ± 1.4105	Boiling point 134 ± 137 ° C	Water (K.F.) <=0.2 %
Residue on evaporation <=20 ppm		

Code	Size	Packaging
453951	ml 1000	Glass bottle
453952	kg 20	Glass-metal/polythene contain.

## 2-Ethoxyethanol - Technical Grade

## 2-Ethoxyethanol - Technical Grade

## PS-Pure-for synthesis

sds

Assay (GC) >= 99 %	Refractive index at 20°C 1.406 - 1.41	Water content (K.F.) <= 100 mg/Kg
Colour <= 10 Hazen	Non volatile residue <= 10 mg/Kg	Free acid (as CH <sub>3</sub> COOH) <= 50 mg/Kg

Code	Size	Packaging
P0461016	ml 1000	Glass bottle

## 2-Ethyl-1-hexylamine

2-Etlesilammna-1 - 2-Ethyl-1-hexylamine - 2-Etil-1-hexilamina

C<sub>8</sub>H<sub>19</sub>N

Atomic weight: 129,250  
CAS N: 104-75-6  
EEC N: 203-233-8

## 2-Ethyl-1-hexylamine - Analytical Grade

## RPE-For analysis

CARLO ERBA  
Quality since 1874

Assay (GLC) 98 ± 100 %	Description Clear colourless liquid	Density at 20° C 0.784 ± 0.790
Boiling point 166.5 ± 169.5 ° C	Residue on ignition <=100 ppm	

Code	Size	Packaging
448801	ml 250	Glass bottle

## Ethyl acetate

Etile acetato - Ethyle acétate - Etilo acetato

CH<sub>3</sub>COOC<sub>2</sub>H<sub>5</sub>

Atomic weight: 88,107  
CAS N: 141-78-6  
EEC N: 205-500-4

## Transport classification

ONU n. 1173  
Transport class: 3  
Packaging group: II



R: 11-36-66-67  
S: 16-26-33

## Ethyl acetate - Analytical Grade

## PA-PUREX-for analysis

sds

Assay (GC) >= 99.8 %	Refractive index at 20°C 1.37 - 1.374	Water content (K.F.) <= 300 mg/Kg
Non volatile residue <= 10 mg/Kg	Colour <= 10 Hazen	Free acid (as CH <sub>3</sub> COOH) <= 30 mg/Kg
Methanol <= 100 mg/Kg	Ethanol <= 400 mg/Kg	Density d20/4 0.898 - 0.902
Methyl acetate <= 0.1 %		

Code	Size	Packaging
P0020516	ml 1000	Glass bottle
P0020529	ml 5000	Plastic drum
P0020540	l 10	Metal tank
P0020068	l 200	Metal drum
P0020568	l 200	Metal drum

## RPE-ACS-for analysis

CARLO ERBA  
Quality since 1874

Assay (GLC) >=99.8 %	Description Clear liquid	Colour (APHA) <=10
Identification (I.R.) Conform	Alcohol miscibility complete	Chloroform miscibility complete
Diethyl ether miscib. complete	Foreign esters Conform	Water solubility Conform
Substances darkened by sulphuric acid Conform	Density at 20° C 0.901 ± 0.902	Refractive index at 20° 1.3699 ± 1.3739
Boiling point 76.9 ± 77.4 ° C	Water (K.F.) <=500 ppm	Residue on evaporation <=10 ppm
Acidity <=0.0009 meq/g	Ethyl alcohol <=0.1 %	Methyl alcohol <=0.1 %
Methyl acetate <=0.1 %	Al <=0.5 ppm	B <=0.02 ppm
Ba <=0.1 ppm	Ca <=0.5 ppm	Cd <=0.05 ppm
Co <=0.02 ppm	Cr <=0.02 ppm	Cu <=0.02 ppm
Fe <=0.02 ppm	Mg <=0.1 ppm	Mn <=0.02 ppm
Ni <=0.02 ppm	Pb <=0.02 ppm	Sn <=0.1 ppm
Zn <=0.02 ppm		

Code	Size	Packaging
448251	ml 1000	Glass bottle
448256	ml 2500	Glass bottle
448253	kg 24	Metallic can
448255	kg 180	Metal drum

## Ethyl acetate - Special Grade

## RS-Anhydrous-for analysis

sds

Assay (GC) >= 99.8 %	Refractive index at 20°C 1.37 - 1.374	Water content (K.F.) <= 100 mg/Kg
Non volatile residue <= 10 mg/Kg	Colour <= 10 Hazen	Free acid (as CH <sub>3</sub> COOH) <= 30 mg/Kg
Methanol <= 100 mg/Kg	Ethanol <= 400 mg/Kg	Density d20/4 0.898 - 0.902
Methyl acetate <= 0.1 %		

Code	Size	Packaging
P0021016	ml 1000	Glass bottle
P0021021	ml 2500	Glass bottle
P00210T21	ml 2500	Glass bottle with molecular sieves

For further information on above products, see following product/application section(s)

Anhydrous solvents (p. 27)

## Ethyl acetate - Special Grade

## RS-ATRASOL-For analysis of volatile traces

sds

Assay (GC) >= 99.8 %	Refractive index at 20°C 1.37 - 1.374	Water content (K.F.) <= 150 mg/Kg
Colour <= 10 Hazen	Methanol <= 100 mg/Kg	Non volatile residue <= 2 mg/Kg
Ethanol <= 100 mg/Kg	Free acid (as CH <sub>3</sub> COOH) <= 30 mg/Kg	GC ( FID ) - NC Atrasol Conform
GC-ECD.Individual peak (Lindane) <= 2 ng/l	<b>Retention time trichlorobenzene to mirex -</b>	GC-FID. Individ. peak (hexadecane) <= 5 µg/l

Retention time range over toluène -

Code	Size	Packaging
P0023216	ml 1000	Glass bottle
P0023221	ml 2500	Glass bottle

For further information on above products, see following product/application section(s)  
Special products for environmental analysis (p. 81)

## RS-For HPLC-Isocratic Grade

sds

Assay (GC) >= 99.8 %	Refractive index at 20°C 1.37 - 1.374	Water content (K.F.) <= 200 mg/Kg
Non volatile residue <= 10 mg/Kg	Colour <= 10 Hazen	UV transmittance at 260 nm >= 75 %
UV transmittance at 270 nm >= 90 %	UV transmittance at 300 nm >= 95 %	Ethanol <= 400 mg/Kg
Free acid (as CH <sub>3</sub> COOH) <= 30 mg/Kg	Methanol <= 100 mg/Kg	

Code	Size	Packaging
P0023716	ml 1000	Glass bottle
P0023721	ml 2500	Glass bottle

For further information on above products, see following product/application section(s)  
Chromatography (p. 34)

## RS-For HPLC-Isocratic Grade

CARLO ERBA  
Quality since 1884

Assay (GLC) >=99.5 %	Description Clear colourless liquid	Density at 20° C 0.898 + 0.902
Refractive index at 20° 1.3699 + 1.3739	Boiling point 76.9 + 77.4 ° C	Water (K.F.) <=300 ppm
Residue on evaporation <=2 ppm	Acidity or alkalinity <=0.0015 meq/g	<b>U.V. Transmittance -</b>
at 260 nm >=76 %	at 270 nm >=94 %	at 280 nm >=98 %

Code	Size	Packaging
412612	ml 2500	Glass bottle

For further information on above products, see following product/application section(s)  
Chromatography (p. 34)

## RS-For preparative HPLC

sds

Assay (GC) >= 99.8 %	Refractive index at 20°C 1.37 - 1.374	Water content (K.F.) <= 300 mg/Kg
Non volatile residue <= 10 mg/Kg	Colour <= 10 Hazen	UV transmittance at 255 nm >= 25 %
UV transmittance at 300 nm >= 90 %	Free acid (as CH <sub>3</sub> COOH) <= 30 mg/Kg	

Code	Size	Packaging
P00237P21	ml 2500	Glass bottle

Filtered at 1 mm

For further information on above products, see following product/application section(s)  
Chromatography (p. 34)

## RS-For preparative HPLC

CARLO ERBA  
Quality since 1884

Assay (GLC) >= 99.9 %	Description Clear colourless liquid	Density at 20° C 0.901 + 0.902
Refractive index at 20° 1.3699 + 1.3739	Boiling point 76.9 + 77.4 ° C	Water (K.F.) <= 300 ppm
Residue on evaporation <= 5 ppm	Alcalinity <= 0.0002 meq/g	<b>U.V. Transmittance -</b>
at 265 nm >= 70 %	at 280 nm >= 98 %	

Code	Size	Packaging
448211	ml 2500	Glass bottle

For further information on above products, see following product/application section(s)  
Chromatography (p. 34)

## RS-For residual pesticides analysis

CARLO ERBA  
Quality since 1884

Assay (GLC) >=99.8 %	Description Clear colourless liquid	Density at 20° C 0.898 + 0.902
Water (K.F.) <=500 ppm	Residue on evaporation <=2 ppm	GC-ECD (Lindano) <=5 ng/l
GC_NPD (Parathion) <=10 ng/l	GC-FID Conform	

Code	Size	Packaging
448311	ml 1000	Glass bottle
448312	ml 2500	Glass bottle

For further information on above products, see following product/application section(s)  
Special products for environmental analysis (p. 81)

## RS-PESTIPUR-for pesticide analysis

sds

Assay (GC) >= 99.8 %	Refractive index at 20°C 1.37 - 1.374	Water content (K.F.) <= 300 mg/Kg
Colour <= 10 Hazen	Free acid (as CH <sub>3</sub> COOH) <= 30 mg/Kg	Non volatile residue <= 2 mg/Kg
GC-ECD.Individual peak (Lindane) <= 3 ng/l	<b>Retention time trichlorobenzene to mirex -</b>	GC-NPD.Individual peak (Ethylparathion) <= 3 ng/l

Retention time Atrazin to Coumaphos -

Code	Size	Packaging
P0022216	ml 1000	Glass bottle
P0022221	ml 2500	Glass bottle

## Ethyl acetate - Special Grade

## RS-PLUS-for residual pesticide analysis



Assay (GLC) >= 99.8 %	Description Clear liquid	Colour <= 10 hazen
Water <= 0.03 %	Not volatile residue <= 5 mg/kg	Free acid (as CH <sub>3</sub> COOH) <= 30 mg/kg
GC-ECD (Lindane standard) <= 3 ng/l	GC-NPD (Ethylparathion standard) <= 3 ng/l	

Code	Size	Packaging
448351	ml 1000	Glass bottle
448352	ml 2500	Glass bottle

For further information on above products, see following product/application section(s)  
Special products for environmental analysis (p. 81)

## RS-RSE For electronic use-ERBATRON



Assay (GLC) >=99.9 %	Description Clear liquid	Colour (APHA) <=10
Ready carbonizable substances Conform	Resistivity >=20 Mohm.cm	Density at 20° C 0.898 ± 0.902
Boiling point 76.6 + 77.6 ° C	Water (K.F.) <=500 ppm	Residue on evaporation <=10 ppm
Acidity (acetic acid) <=50 ppm	Alcalinity (NH <sub>3</sub> ) <=1 ppm	Phosphate <=0.5 ppm
Heavy metals (Pb) <=0.1 ppm	Ag <=0.02 ppm	Al <=0.05 ppm
As <=0.01 ppm	Au <=0.05 ppm	B <=0.01 ppm
Ba <=0.1 ppm	Be <=0.02 ppm	Bi <=0.02 ppm
Ca <=0.2 ppm	Cd <=0.01 ppm	Co <=0.01 ppm
Cr <=0.01 ppm	Cu <=0.01 ppm	Fe <=0.02 ppm
Ga <=0.02 ppm	In <=0.02 ppm	K <=0.1 ppm
Li <=0.02 ppm	Mg <=0.1 ppm	Mn <=0.01 ppm
Mo <=0.05 ppm	Na <=0.2 ppm	Ni <=0.01 ppm
Pb <=0.02 ppm	Pt <=0.05 ppm	Sb <=0.01 ppm
Sn <=0.02 ppm	Sr <=0.02 ppm	Ti <=0.05 ppm
Tl <=0.05 ppm	V <=0.05 ppm	Zn <=0.02 ppm
Zr <=0.05 ppm		

Code	Size	Packaging
448308	ml 2500	Glass bottle
448306	ml 5000	Metallic can
448301	kg 24	Metal drum

## RS-SPECTROSOL-for optical spectroscopy



Assay (GC) >= 99.8 %	Refractive index at 20°C 1.37 - 1.374	Water content (K.F.) <= 200 mg/Kg
Non volatile residue <= 10 mg/Kg	Colour <= 10 Hazen	UV transmittance at 255 nm >= 15 %
UV transmittance at 260 nm >= 75 %	UV transmittance at 270 nm >= 95 %	UV transmittance at 280 nm >= 98 %
Ethanol <= 100 mg/Kg	Free acid (as CH <sub>3</sub> COOH) <= 30 mg/Kg	Methanol <= 100 mg/Kg

Code	Size	Packaging
P0022721	ml 2500	Glass bottle

For further information on above products, see following product/application section(s)  
Solvents for spectroscopy (p. 68)

## Ethyl acetate - Pharmaceutical Grade

## RPH-According to pharmacopoeia: NF



Assay (saponification) 99.0 + 100.5 %	Description Clear colourless liquid	Acidity Conform USP-NF
Ready carbonizable substances Conform USP-NF	Methyl compounds Conform USP-NF	Residue solvents Conform USP-NF
Density at 25° C 0.894 + 0.898	Residue on evaporation <=0.02 %	Chromatographic purity >=99.5 %
Origin (BSE/TSE) Synthesis	Residual solvents (CPMP/ICH/283/95) Conform	

Code	Size	Packaging
341506	ml 1000	Glass bottle
341503	ml 2500	Glass bottle
341502	kg 24	Metallic can

## RPH-According to pharmacopoeia: NF-low water content



Assay (saponification) 99.0 + 100.5 %	Description Clear colourless liquid	Acidity Conform USP-NF
Ready carbonizable substances Conform USP-NF	Methyl compounds Conform USP-NF	Organic volatile impurities Conform USP-NF
Density at 25° C 0.894 + 0.898	Residue on evaporation <=0.02 %	Water (K.F.) <=0.1 %
Chromatographic purity >=99.5 %		

Code	Size	Packaging
341511	ml 1000	Glass bottle

## RPH-According to pharmacopoeia: Ph.Eur.



Assay (GC) >= 99.8 %	Clear, colourless liq. appearance Conform	Clear, colourless aqueous sol. appearance Conform
Water solubility Conform	Acetone miscibility Conform	Alcohol miscibility Conform
Dichloromethane miscibility Conform	Identification (IR) Conform	Acidity Conform
Density d <sub>20/20</sub> 0.898 - 0.902	Refractive index at 20°C 1.370 - 1.373	Reaction with H <sub>2</sub> SO <sub>4</sub> Conform
Related substances (GC) Conform	Non volatile residue <= 30 mg/Kg	Water content (K.F.) <= 0.1 % m/m

Code	Size	Packaging
P0025048	l 25	Metal drum

## Ethyl acetate - Pharmaceutical Grade

## RPH-According to pharmacopoeia: Ph.Eur.-NF-DAB



Titolo (saponificazione) 99.0 + 100.5 %	Assay (GLC) >= 99.8 %	Description Clear colourless liquid
Colour <= 10 APHA	Appearance Conform Ph.Eur.	Density at 20°C 0.898 + 0.902
Refractive index at 20°C 1.370 + 1.373	Boiling point 76 + 78 °C	Acidity Conform USP-NF
Residue on evaporation <= 0.003 %	Water (K.F.) <= 0.1 %	Readily carbonizable substances Conform USP-NF
Methyl compounds Conform USP-NF	Organic volatile impurities Conform USP-NF	Related compounds <= 0.2 %
Density at 25 °C 0.894 + 0.898	Origin (BSE/TSE) Synthesis	Residual solvents (CPMP/ICH/283/95) Conform

Code	Size	Packaging
529221	l 25	Plastic tank
529222	l 200	Metallic can

## Ethyl acetate - Technical Grade

## PS-Pure-for synthesis



Assay (GC) >= 99.8 %	Refractive index at 20°C 1.37 - 1.374	Water content (K.F.) <= 500 mg/Kg
Non volatile residue <= 20 mg/Kg	Colour <= 10 Hazen	Free acid (as CH <sub>3</sub> COOH) <= 30 mg/Kg
Ethanol <= 400 mg/Kg	Density d20/4 0.898 - 0.902	

Code	Size	Packaging
P0020229	ml 5000	Plastic drum
P0020240	l 10	Metal tank
P0020248	l 25	Metal drum
P0020268	l 200	Metal drum

## RE-Pure



Assay (GLC) >= 99 %	Description Clear colourless liquid	Colour <= 10 APHA
Identity (IR) Positive	Density at 20°C 0.898 + 0.902	Boiling point 76.0 + 77.5 °C
Refractive index at 20°C 1.3699 + 1.3739	Acidity (acetic ac) <= 30 ppm	Residue on evaporation <= 30 ppm
Water (K.F.) <= 500 ppm		

Code	Size	Packaging
508221	ml 1000	Glass bottle
508222	ml 2500	Glass bottle
528295	ml 5000	Metal tank
528297	l 200	Metal drum

## Ethyl acetoacetate

*Etile acetoacetato - Ethyle acétoacétate - Etilo acetoacetato*

**CH<sub>3</sub>CH<sub>2</sub>OCOCH<sub>2</sub>COCH<sub>3</sub>**  
 Atomic weight: 130,15  
 CAS N: 141-97-9  
 EEC N: 205-516-1



R: 36/37/38  
 S: 26

## Ethyl acetoacetate - Analytical Grade

## RPE-For analysis



Assay (GLC) >= 99 %	Description Clear colourless liquid	Density at 20 °C 1.021 + 1.029
Refractive index at 20° 1.4154 + 1.4234	Boiling point 179.4 + 181 °C	Acidity or alkalinity <= 0.005 meq/g
Water (K.F.) <= 500 ppm	Residue on evaporation <= 50 ppm	

Code	Size	Packaging
448323	ml 1000	Glass bottle

## Ethyl acetoacetate - Technical Grade

## RE-Pure



Assay (GLC) >= 98 %	Description Clear colourless liquid	Density at 20 °C 1.021 + 1.029
Refractive index at 20° 1.415 + 1.424	Boiling point 179 + 181 °C	Water (K.F.) <= 0.1 %

Code	Size	Packaging
341751	ml 1000	Glass bottle

## Ethyl benzoate

*Etile benzoato - Ethyle benzoate - Etilo benzoato*

**C<sub>9</sub>H<sub>10</sub>COOC<sub>2</sub>H<sub>5</sub>**  
 Atomic weight: 150,17  
 CAS N: 93-89-0  
 EEC N: 202-284-3

## Ethyl benzoate - Analytical Grade

## RPE-For analysis



Assay (GLC) >= 99.0 %	Description Yellow colourless liquid	Density at 20 °C 1.043 + 1.047
Refractive index at 20° 1.5040 + 1.5060	Acidity <= 0.1 %	

Code	Size	Packaging
448371	ml 100	Glass bottle
448377	ml 1000	Glass bottle
448372	kg 20	Metallic can



## Ethyl bromide

*Etile bromuro - Ethyle bromure - Etilo bromuro***C<sub>2</sub>H<sub>5</sub>Br**Atomic weight: 108,97  
CAS N: 74-96-4  
EEC N: 200-825-8**Transport classification**  
ONU n. 1891  
Transport class: 6.1  
Packaging group: IIR: 11-20/22-40  
S: 36/37A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
M  
N  
O  
P  
Q  
R  
S  
T  
U  
V  
W  
X  
Y  
Z

## Ethyl bromide - Technical Grade

## RE-Pure



Assay (GLC) >=98 %	Description Clear colourless liquid	Density at 20° C 1.410 ± 1.510
Refractive index at 20° 1.4189 ± 1.4289	Boiling point 37.7 ± 39.2° C	Residue on evaporation <=100 ppm

Code	Size	Packaging
342001	ml 1000	Glass bottle

## Ethyl bromoacetate

*Etile bromoacetato - Ethyle bromoacétate - Etilo bromoacetato***CH<sub>3</sub>CH<sub>2</sub>OCOCH<sub>2</sub>Br**Atomic weight: 167,01  
CAS N: 105-36-2  
EEC N: 203-290-9**Transport classification**  
ONU n. 1603  
Transport class: 6.1  
Secondary risk: 3  
Packaging group: IIR: 26/27/28  
S: 7/9-26-45

## Ethyl bromoacetate - Analytical Grade

## RPE-For analysis



Assay (GLC) >=98 %	Description Clear liquid	Colour (APHA) <= 10
Refractive index at 20° 1.4500 ± 1.4520		

Code	Size	Packaging
448424	ml 100	Glass bottle

## Ethyl formate

*Etile formiato - Ethyle formiate - Etilo formiato***CH<sub>3</sub>CH<sub>2</sub>OOCH**Atomic weight: 74,080  
CAS N: 109-94-4  
EEC N: 203-721-0**Transport classification**  
ONU n. 1190  
Transport class: 3  
Packaging group: IIR: 11-20/22-36/37  
S: 9-16-24-26-33

## Ethyl formate - Technical Grade

## RE-Pure



Assay (GLC) >=98.0 %	Description Clear liquid	Density at 20° C 0.907 ± 0.927
Refractive index at 20° 1.3547 ± 1.3647	Colour (APHA) <= 20	Boiling point 53.3 ± 55.3° C
Acidity <= 0.002 meq/g		

Code	Size	Packaging
342101	ml 1000	Glass bottle
342102	kg 25	Metal drum

## Ethyl iodide

*Etile ioduro - Ethyle iodure - Etilo ioduro***C<sub>2</sub>H<sub>5</sub>I**Atomic weight: 155,97  
CAS N: 75-03-6  
EEC N: 200-833-1**Transport classification**  
ONU n. 1993  
Packaging group: IIIR: 10-36/38  
S: 16-24/25

## Ethyl iodide - Analytical Grade

## RPE-For analysis



Assay (GLC) =>99 %	Description Yellow clear liquid	Alcohol miscibility complete
Benzene miscibility complete	Diethyl ether miscib. complete	Density at 20° C 1.911 ± 1.961
Refractive index at 20° 1.5073 ± 1.5193	Boiling point 71.5 ± 72.5° C	Water (K.F.) <=0.1 %
Residue on evaporation <=50 ppm	Aidity(Hydrogen iodide) <=50 ppm	

Code	Size	Packaging
448873	ml 100	Glass bottle
448877	ml 1000	Glass bottle
448876	kg 43	Glass-polystyrene container

Stabilized with Ag.

## Ethyl p-aminobenzoate

*Etile p-amminobenzoato - Ethyle-p-aminobenzoate - Etilo p-aminobenzoato***C<sub>9</sub>H<sub>9</sub>(NH<sub>2</sub>)COOC<sub>2</sub>H<sub>5</sub>**Atomic weight: 165,18  
CAS N: 94-09-7  
EEC N: 202-303-5

R: 20/21/22

## Ethyl p-aminobenzoate - Pharmaceutical Grade

## Ethyl p-aminobenzoate - Pharmaceutical Grade

RPH-According to pharmacopoeia: Ph.Eur.-USP-FU-Ph.Franc.-BP-DAB



Assay 99.0 + 101.0 % s.s.	Description White crystalline powder	Appearance of solution Conform Ph.Eur.
Acidity or alkalinity Conform Ph.Eur.	Melting point 89 + 92 ° C	Loss on drying <=0.5 %
Sulphated ash <=0.1 %	Origin (BSE/TSE) Synthesis	Residual solvents (CPMP/ICH/283/95) Conform

Code	Size	Packaging
341871	g 50	Bottle

## Ethyl propionate

Etile propionato - Ethyle propionate - Etilo propionato

**CH<sub>3</sub>CH<sub>2</sub>COOC<sub>2</sub>H<sub>5</sub>**  
 Atomic weight: 102,13  
 CAS N: 105-37-3  
 EEC N: 203-291-4

**Transport classification**  
 ONU n. 1195  
 Transport class: 3  
 Packaging group: II



R: 11  
 S: 16-23-24-29-33

## Ethyl propionate - Analytical Grade

RPE-For analysis



Assay (GLC) 99 + 100 %	Description Clear colourless liquid	Density at 20° C 0.884 + 0.894
Refractive index at 20° 1.3809 + 1.3869	Boiling point 98.6 + 99.6 ° C	Water (K.F.) <=500 ppm
Residue on evaporation <=50 ppm	Acidity (propionic ac.) <=500 ppm	

Code	Size	Packaging
449227	ml 1000	Glass bottle

## Ethyl vinyl ether

Etere etilvinilico - Ether éthyvinilyque - Eter etilvinilico

**CH<sub>3</sub>CH<sub>2</sub>OCH:CH<sub>2</sub>**  
 Atomic weight: 72,108  
 CAS N: 109-92-2  
 EEC N: 203-718-4

**Transport classification**  
 ONU n. 1302  
 Transport class: 3  
 Packaging group: I



R: 12-19-38  
 S: 9-16-29-33

## Ethyl vinyl ether - Analytical Grade

RPE-For analysis



Assay (GLC) 99 + 100 %	Description Clear colourless liquid	Diethyl ether miscib. complete
Density at 20° C 0.757 + 0.761	Refractive index at 20° 1.3732 + 1.3802	Boiling point 35.3 + 35.8 ° C
Water (K.F.) <=0.1 %	Residue on evaporation <=500 ppm	Acidity (acetic acid) <=10 ppm
Alcalinity (NH <sub>3</sub> ) <=85 ppm	Peroxides (H <sub>2</sub> O <sub>2</sub> ) <=50 ppm	

Code	Size	Packaging
447691	ml 250	Glass bottle

## Ethylamine solution 70% in water

Etilammina soluzione 70% in acqua - Ethylamine 70% - Etilamina solución 70% en agua

**C<sub>2</sub>H<sub>5</sub>NH<sub>2</sub>**  
 CAS N: 75-04-7  
 EEC N: 200-834-7

**Transport classification**  
 ONU n. 2270  
 Transport class: 3  
 Secondary risk: 8  
 Packaging group: II



R: 11-36/37  
 S: 16-26-29

## Ethylamine solution 70% in water - Analytical Grade

RPE-For analysis



Assay (alkalimetric) 67 + 73 %	Description Clear colourless liquid or opaline	Density at 20°C 0.80 + 0.82
Refractive index at 20° 1.382 + 1.386		

Code	Size	Packaging
448074	ml 1000	Glass bottle

## Ethylbenzene

Etilbenzene - Ethyle benzène - Etilbenceno

**C<sub>8</sub>H<sub>10</sub>**  
 Atomic weight: 106,17  
 CAS N: 100-41-4  
 EEC N: 202-849-4

**Transport classification**  
 ONU n. 1175  
 Transport class: 3  
 Packaging group: II



R: 11-20  
 S: 16-24/25-29

## Ethylbenzene - Analytical Grade

RPE-For analysis



Assay (GLC) >=99.5 %	Description Clear colourless liquid	Ready carbonizable substances Conform
Density at 20° C 0.864 + 0.870	Refractive index at 20° 1.4919 + 1.4999	Boiling point 135.5 + 136.5 ° c
Water (K.F.) <=200 ppm	Residue on evaporation <=10 ppm	Acidity (benzoic acid) <=14 ppm
Alcalinity (NH <sub>3</sub> ) <=2 ppm	Benzene <=0.25 %	Toluene <=0.25 %
Total sulphur <=3 ppm		

Code	Size	Packaging
448111	ml 250	Glass bottle
448112	ml 1000	Glass bottle

## Ethylbenzene - Technical Grade

## PS-Pure-for synthesis

sds

Assay (GC) >= 99.6 %      Refractive index at 20°C 1.494 - 1.498      Colour <= 10 Hazen  
 Non-aromatic compounds <= 1700 mg/Kg

Code	Size	Packaging
P9770268	l 200	Metal drum

## Ethylene carbonate

Etilene carbonato - Ethylene carbonate - Etileno carbonato

**CH<sub>2</sub>OCOOCH<sub>2</sub>**  
 Atomic weight: 88,10  
 CAS N: 96-49-1  
 EEC N: 202-510-0

## Ethylene carbonate - Analytical Grade

## RPE-For analysis

CARLO ERBA  
Quality since 1848

Assay (oxidimetric) >= 99 %      Description White crystals      Residue on ignition <= 200 ppm  
 Density at 40°C 1.320 + 1.324      Melting point 35 + 37 °C

Code	Size	Packaging
449532	ml 1000	Glass bottle

## Ethylene glycol

Glicol etilenico - Ethylène glycol - Etil englicol

**CH<sub>2</sub>OHCH<sub>2</sub>OH**  
 Atomic weight: 62,070  
 CAS N: 107-21-1  
 EEC N: 203-473-3



R: 22

## Ethylene glycol - Analytical Grade

## RPE-For analysis

CARLO ERBA  
Quality since 1848

Assay (GLC) >= 99.5 %      Description Clear colourless liquid      Water miscibility Conform  
 Miscb. with Acetone complete      Alcohol miscibility complete      Reac.with Ammonium hydr Conform  
 Sub reducing AgNO<sub>3</sub> amm. Conform      Ready carbonizable substances Conform      Density at 20° C 1.108 + 1.118  
 Refractive index at 20° 1.4274 + 1.4354      Boiling point 197 + 199 ° C      Water (K.F.) <= 0.1 %  
 Acidity (acetic acid) <= 3 ppm      Chloride <= 2 ppm      Carbonyl Compounds (CO) <= 100 ppm  
 Heavy metals (Pb) <= 2 ppm      Peroxides (H<sub>2</sub>O<sub>2</sub>) <= 5 ppm      Residue on ignition <= 30 ppm  
 Sulphate <= 20 ppm      Fe <= 1 ppm

Code	Size	Packaging
453905	ml 1000	Glass bottle
453904	ml 2500	Glass bottle
453902	kg 30	Plastic drum
453903	kg 230	Plastic drum

## Ethylene glycol - Technical Grade

## PS-Pure-for synthesis

sds

Assay (GC) >= 99 %      Refractive index at 20°C 1.43 - 1.434      Water content (K.F.) <= 2000 mg/Kg  
 Colour <= 10 Hazen

Code	Size	Packaging
P0390228	ml 5000	Metal tank
P0390229	ml 5000	Plastic drum
P0390249	l 25	Plastic drum
P0390268	l 200	Metal drum

## RE-Pure

CARLO ERBA  
Quality since 1848

Assay (GLC) >=98 %      Description Clear colourless liquid      Density at 20° C 1.108 + 1.118  
 Refractive index at 20° 1.4264 + 1.4364      Boiling point 197.0 + 199.0 ° C      Water (K.F.) <=0.3 %  
 Residue on ignition <=100 ppm

Code	Size	Packaging
346501	ml 1000	Glass bottle
346503	ml 2500	Glass bottle
346509	kg 60	Plastic drum
346508	kg 230	Plastic drum

For further information on above products, see following product/application section(s)  
 Microscopy (p. 58)

## Ethylene glycol bis(2-aminoethyl ether)-N,N,N',N'-tetraacetic acid

**(HOOCCH<sub>2</sub>)<sub>2</sub>N(CH<sub>2</sub>CH<sub>2</sub>O)<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>N(CH<sub>2</sub>COOH)<sub>2</sub>**  
 Atomic weight: 380,35  
 CAS N: 67-42-5  
 EEC N: 200-651-2

## Ethylene glycol bis(2-aminoethyl ether)-N,N,N',N'-tetraacetic acid - Analytical Grade

## Ethylene glycol bis(2-aminoethyl ether)-N,N,N',N'-tetraacetic acid - Analytical Grade

## RPE-For analysis



Assay (complexometric) >=98 %	Description White cryst. powder	Loss on drying <=1 %
Chloride <=500 ppm	NH4OH-insoluble subst. <=50 ppm	Heavy metals (Pb) <=10 ppm
Residue on ignition <=0.1 %	Sulphate <=100 ppm	

Code	Size	Packaging
405522	g 100	Plastic jar

For complexometry

## Ethylenediamine

Etilendiammina - Ethylènediamine - Etilendiamina



Atomic weight: 60,099  
CAS N: 107-15-3  
EEC N: 203-468-6

## Transport classification

ONU n. 1604

Transport class: 8

Secondary risk: 3

Packaging group: II



R: 10-21/22-34-42/43  
S: 23-26-36/37/39-45

## Ethylenediamine - Analytical Grade

## RPE-For analysis



Assay (GLC) >= 98 %	Description Clear colourless liquid	Alcohol miscibility complete
Density at 20° C 0.890 ± 0.906	Refractive index at 20° 1.4470 ± 1.4570	Boiling point 115.8 ± 117.3 °C
Melting point 10 ± 12 °C	Heavy metals (Pb) <= 5 ppm	Residue on ignition <= 100 ppm
Fe <= 5 ppm		

Code	Size	Packaging
449425	ml 1000	Glass bottle
449424	kg 25	Glass-metal/polythene contain.

## Ethylenediamine - Special Grade

## RS-RSE For electronic use-ERBATRON



Assay (GLC) >= 98.0 %	Description Clear liquid	Colour (APHA) <= 10
Density at 20° C 0.890 ± 0.906 g/l	Freezing point 10 ± 12 °C	Residue on ignition <= 100 ppm
Cr <= 50 ppb	Cu <= 50 ppb	Fe <= 50 ppb
Ni <= 50 ppb		

Code	Size	Packaging
449435	kg 180	Drum

## Ethylenediaminetetraacetic acid

Acido etilendiamminotetraacetico - Acide éthylènediaminotétracétique (EDTA) - Acido etilendiaminotetraacetico (EDTA)



Atomic weight: 292,25  
CAS N: 60-00-4  
EEC N: 200-449-4



R: 20/21/22  
S: 13

## Ethylenediaminetetraacetic acid - Analytical Grade

## RPE-For analysis



Assay (complexometric) >=99 %	Description White powder	Chelation power Conform
Loss on drying <=0.1 %	Nitrilotriacetic acid <=0.15 %	Chloride <=40 ppm
NH4OH-insoluble subst. <=5 ppm	Heavy metals (Pb) <=5 ppm	Residue on ignition <=0.1 %
Cu <=2 ppm	Fe <=5 ppm	

Code	Size	Packaging
405465	g 250	Plastic jar
405463	g 1000	Plastic jar
405462	g 5000	Plastic jar
405461	kg 50	Carton drum

For complexometry

## Ethylenediaminetetraacetic acid - Pharmaceutical Grade

## RPH-According to pharmacopoeia: NF



Assay (complexometric) 98.0 ± 100.5 %	Description White powder	Nitrilotriacetic acid <=0.3 %
Heavy metals (Pb) <=30 ppm	Residue on ignition <=0.2 %	Fe <=50 ppm
Origin (BSE/TSE) Synthesis	Residual solvents (CPMP/ICH/283/95) Conform	

Code	Size	Packaging
303251	g 5000	Plastic bottle
303252	kg 25	Tank
303254	kg 50	Drum

For complexometry

## Ethylenediaminetetraacetic acid 0,01 mol/l



Atomic weight: 292,250  
CAS N: 60-00-4  
EEC N: 200-449-4

## Ethylenediaminetetraacetic acid 0,01 mol/l - Analytical Grade

## Ethylenediaminetetraacetic acid 0,01 mol/l - Analytical Grade

## RPE-For analysis-Superior



Description Clear colourless liquid Titration factor 0.999 + 1.001

Code	Size	Packaging
405601	ml 1000	Plastic bottle

For further information on above products, see following product/application section(s)  
Volumetry (p. 92)

## Ethylenediaminetetraacetic acid dipotassium salt



Atomic weight: 404,46

CAS N: 25102-12-9

EEC N: 217-895-0

R: 20/21/22  
S: 13

## Ethylenediaminetetraacetic acid dipotassium salt - Analytical Grade

## RPE-For analysis

Assay (complexometric) 99.0 + 101.5 % Description White powder pH sol. 5% at 25° C 4.0 + 5.0  
Chloride <=50 ppm Heavy metals (Pb) <=10 ppm Fe <=10 ppm

Code	Size	Packaging
405531	g 50	Glass jar

For complexometry

## Ethylenediaminetetraacetic acid dipotassium salt - Technical Grade

## RE-Pure

Assay (complexometric) >=99.0 % Description White granular powder pH sol. 5% in H2O 4.0+5.0  
Water-insoluble matter <=0.003 % Fe <= 0.001 % Heavy metals (Pb) <= 0.0005 %  
Chloride <=0.004 % Cyanide <= 0.001 % Sulphate <=0.01 %  
Cu <=0.0001 % Nitritotriacetic acid <=0.05 % Loss on drying 150° C 8.5+9.5 %

Code	Size	Packaging
405582	kg 25	Drum

## Ethylenediaminetetraacetic acid disodium salt

Acido etilendiamminotetraacetico sale bisodico - Acide éthylènediaminotétracétique sel disodique - Acido etilendiaminotetraacético sal disódica



Atomic weight: 372,24

CAS N: 6381-92-6

EEC N: 205-358-3

R: 20/21/22  
S: 13

## Ethylenediaminetetraacetic acid disodium salt - Analytical Grade

## RPE-ACS-for analysis

Assay (complexometric) 99.0 + 101.0 % Description White powder pH sol. 5% at 25° C 4.0 + 6.0  
Nitritotriacetic acid <=0.1 % Water-insoluble matter <=50 ppm Heavy metals (Pb) <=50 ppm  
Fe <=100 ppm

Code	Size	Packaging
405494	g 100	Plastic jar
405491	g 250	Plastic jar
405497	g 1000	Plastic jar
405492	kg 25	Fibre drum

For complexometry

## Ethylenediaminetetraacetic acid disodium salt - Pharmaceutical Grade

## RPH-According to pharmacopoeia: Ph.Eur.-FU

Assay (complexometric) 98.5 + 101.0 % Description White powder Appearance of solution Conform Ph.Eur.  
pH sol. 5% at 25° C 4.0 + 5.5 Heavy metals (Pb) <=20 ppm Fe <=80 ppm  
Origin (BSE/TSE) Synthesis Residual solvents (CPMP/ICH/283/95) Conform Impurity A <= 0.1 %

Code	Size	Packaging
303201	g 1000	Plastic jar
303202	kg 25	Carton drum

For complexometry

## RPH-According to pharmacopoeia: Ph.Eur.-USP

Assay (complexometric) 99.0 + 101.0 % s.s. Assay (complexometric) 98.5 + 101.0 % t.q. Description White powder  
Appearance of solution Conform Ph.Eur. Ca Conform USP-NF pH sol. 5% at 25° C 4.0 + 5.5  
Loss on drying 8.7 + 11.4 % Ac. nitrilotriacetic (Impurezza A) <= 0.1 % Heavy metals (Pb) <= 20 ppm  
Fe <= 80 ppm Origin (BSE/TSE) Synthesis Residual solvents (CPMP/ICH/283/95) Conform

Code	Size	Packaging
303227	g 1000	Plastic jar
303225	kg 25	Carton drum

## Ethylenediaminetetraacetic acid disodium salt 0.1 mol/l

 $[\text{CH}_2\text{N}(\text{CH}_2\text{COOH})\text{CH}_2\text{COONa}]_2 \cdot 2\text{H}_2\text{O}$ 

Atomic weight: 372,240

CAS N: 6381-92-6

EEC N: 205-358-3

## Ethylenediaminetetraacetic acid disodium salt 0.1 mol/l - Analytical Grade

## PA-PUREX-for analysis

sds

Assay (colorimetry) 0.1998 - 0.2002 N

Code	Size	Packaging
P3300015	ml 1000	Plastic bottle

## RPE-For analysis

CARLO ERBA  
Quality since 1889

Description Clear colourless liquid Titration factor 0.998 + 1.002

Code	Size	Packaging
405511	ml 1000	Plastic bottle
405512	l 10	Kubidos

Ready-to-use volumetric solution

## RPE-For analysis-Superior

CARLO ERBA  
Quality since 1889

Description Clear colourless liquid Titration factor 0.999 + 1.001

Code	Size	Packaging
405571	ml 1000	Plastic bottle

## RPE-NORMEX-for analysis

CARLO ERBA  
Quality since 1889

Assay (complexometric)  $\geq 99.0\%$  Description White crystalline powder pH sol. 5% in H<sub>2</sub>O 8.0+9.0  
 Water-insoluble matter  $\leq 0.01\%$  Solution colour  $\leq 10$  APHA Heavy metals (Pb)  $\leq 0.01\%$   
 Fe  $\leq 0.02\%$

Code	Size	Packaging
405421	Ampoule	Plastic vial

For further information on above products, see following product/application section(s)  
 Volumetry (p. 92)

## Ethylenediaminetetraacetic acid disodium salt 0.05 mol/l

 $[\text{CH}_2\text{N}(\text{CH}_2\text{COOH})\text{CH}_2\text{COONa}]_2 \cdot 2\text{H}_2\text{O}$ 

Atomic weight: 372,240

CAS N: 6381-92-6

EEC N: 205-358-3



R: 20/21/22

S: 13

## Ethylenediaminetetraacetic acid disodium salt 0.05 mol/l - Analytical Grade

## PA-PUREX-for analysis

sds

Assay (colorimetry) 0.0999 - 0.1001 N

Code	Size	Packaging
P3290015	ml 1000	Plastic bottle
P3290022	ml 5000	Plastic drum

## RPE-For analysis

CARLO ERBA  
Quality since 1889

Description Clear colourless liquid Titration factor 0.998 + 1.002

Code	Size	Packaging
405501	ml 1000	Plastic bottle

Ready-to-use volumetric solution

## Ethylenediaminetetraacetic acid disodium salt 0.01 mol/l

 $[\text{CH}_2\text{N}(\text{CH}_2\text{COOH})\text{CH}_2\text{COONa}]_2 \cdot 2\text{H}_2\text{O}$ 

Atomic weight: 372,240

CAS N: 6381-92-6

EEC N: 205-358-3

## Ethylenediaminetetraacetic acid disodium salt 0.01 mol/l - Analytical Grade

## PA-PUREX-for analysis

sds

Assay (colorimetry) 0.01998 - 0.02002 N

Code	Size	Packaging
P3980015	ml 1000	Plastic bottle

## RPE-NORMEX-for analysis

CARLO ERBA  
Quality since 1889

Description Clear colourless liquid Titration factor 0.995 + 1.005

Code	Size	Packaging
405431	Ampoule	Plastic ampoule

3,3621 gr of EDTA sodium salt. Concentrated volumetric solution to prepare 1 l of solution 0,01 M.

For further information on above products, see following product/application section(s)  
 Volumetry (p. 92)

## Ethylenediaminetetraacetic acid disodium salt 0,0178 mol/l (N/28)

[CH2N(CH2COOH)CH2COONa]2.2H2O

Atomic weight: 372,240

CAS N: 6381-92-6

EEC N: 205-358-3

A

B

C

D

E

F

G

H

I

J

K

L

M

N

O

P

Q

R

S

T

U

V

W

X

Y

Z

## Ethylenediaminetetraacetic acid disodium salt 0,0178 mol/l (N/28) - Special Grade

## RS-For agroalimentary analysis



Assay 0.0158 + 0.0198 M

Description Clear liquid

Color &lt;= 10 APHA

Code	Size	Packaging
526011	l 10	Plastic tank

## Ethylenediaminetetraacetic acid potassium and magnesium salt

Mg(OOCCH2)NCH2CH2N(CH2COOK)2.2H2O

Atomic weight: 426,74

CAS N: 15708-48-2

EEC N: 239-803-8



R: 20/21/22

S: 13

## Ethylenediaminetetraacetic acid potassium and magnesium salt - Analytical Grade

## RPE-For analysis



Assay (complexometric) &gt;= 98 %

Description White powder

pH (0.1M a 20°C) 8.5 + 9.5

Chloride &lt;= 50 ppm

Sulphate &lt;= 100 ppm

Heavy metals (Pb) &lt;= 10 ppm

Fe &lt;= 10 ppm

Code	Size	Packaging
405541	g 100	Jar

For complexometry

## Ethylenediaminetetraacetic acid tetrasodium salt tetrahydrate

[CH2N(CH2COONa)2]2.5H2O

Atomic weight: 452,24

CAS N: 13235-36-4

EEC N: 200-573-9



R: 20/21/22

S: 13

## Ethylenediaminetetraacetic acid tetrasodium salt tetrahydrate - Analytical Grade

## RPE-For analysis



Assay (complexometric) &gt;= 98.5 % (s.s.)

Description White crystalline powder

pH sol. 1% 9.5 + 10.5

Water (K.F.) &lt;= 9 %

Code	Size	Packaging
405482	g 250	Plastic jar
405486	kg 25	Carton drum

For complexometry

## Ethylenediaminetetraacetic acid tripotassic salt solution 20%

C10H16K3NaO8.2H2O

Atomic weight: 406,53

CAS N: 65501-24-8

EEC N: 241-543-5

## Ethylenediaminetetraacetic acid tripotassic salt solution 20% - Analytical Grade

## RPE-For analysis



Assay (complexometric) 19 + 21 % p/v

Description Clear colourless liquid

Density at 20° C 1.104 + 1.106

Code	Size	Packaging
405411	ml 1000	Plastic bottle

## Ethylenediaminetetraacetic acid tripotassic salt solution 20% - Technical Grade

## RE-Pure



Assay (complexometric) &gt;=99.0 %

Description White crystalline powder

pH sol. 5% in H2O 8.0+9.0

Water-insoluble matter &lt;=0.01 %

Solution colour &lt;=10 APHA

Heavy metals (Pb) &lt;=0.01 %

Fe &lt;=0.02 %

Code	Size	Packaging
405422	kg 25	Drum

## 2-Ethylhexanoic acid

*Acido 2-etilhexanoico - Acide 2-éthylhexanoïque - Acido 2-etilhexanoico*CH3(CH2)4CH(C2H5)COOH

Atomic weight: 144,22

CAS N: 149-57-5

EEC N: 205-743-6



R: 63

S: 36/37

## 2-Ethylhexanoic acid - Analytical Grade

## 2-Ethylhexanoic acid - Analytical Grade

## RPE-For analysis



Assay (GLC) >=99 %	Description Clear colourless liquid	Density at 20° C 0.904 ± 0.908
Refractive index at 20° 1.4230 ± 1.4280	Boiling point 227.0 ± 229.0 °C	Chloride <=50 ppm
Heavy metals (Pb) <=20 ppm	Sulphate <=50 ppm	Fe <=50 ppm

Code	Size	Packaging
405551	ml 500	Glass bottle

## Bis-(2-ethylhexyl)phosphate

*Bis (2-ethylhexyl)fosfato - Bis-(2-éthylhexyl)phosphate - Bis-(2-etilohexilo)fosfato*C<sub>16</sub>H<sub>32</sub>O<sub>4</sub>P

Atomic weight: 322,43

CAS N: 298-07-7

EEC N: 206-056-4

R: 22  
S: 7-25

## Bis-(2-ethylhexyl)phosphate - Analytical Grade

## RPE-For analysis



Assay >= 94 %	Description Clear liquid	Refractive index at 20° 1.440 ± 1.446
---------------	--------------------------	---------------------------------------

Code	Size	Packaging
406042	ml 250	Glass bottle

## Eugenol

*Eugenolo - Eugenol - Eugenol*C<sub>10</sub>H<sub>12</sub>O<sub>2</sub>

Atomic weight: 164,20

CAS N: 97-53-0

EEC N: 202-589-1

R: 22  
S: 24/25

## Eugenol - Analytical Grade

## RPE-For analysis



Assay (GLC) >= 98.5 %	Description Yellow clear liquid	Density at 20° C 1.064 ± 1.070
Refractive index at 20° 1.5400 ± 1.5420		

Code	Size	Packaging
449773	ml 100	Glass bottle

## Eukitt

*Eukitt - EUKITT - Eukitt*Transport classification  
ONU n. 1866  
Transport class: 3  
Packaging group: IIIR: 10-20/21-38  
S: 25

## Eukitt - Special Grade

## RS-For microscopy



Description Viscous liquid
----------------------------

Code	Size	Packaging
554194	ml 100	Aluminium bottle
554193	ml 250	Aluminium bottle
554192	ml 500	Aluminium bottle

*Balm for rapid inclusion***For further information on above products, see following product/application section(s)**

Microscopy (p. 58)

## Europium

*Europio - Europium - Europio*

Eu

## Europium - Special Grade

## RS-Standard solution for ICP



Code	Size	Packaging	Notes
503571	ml 100	Plastic bottle	Matrice: Nitric acid, conc. 1.000 ppm
503575	ml 100	Plastic bottle	Matrice: Nitric acid, conc. 10.000 ppm
503573	ml 500	Plastic bottle	Matrice: Nitric acid, conc. 1.000 ppm
503577	ml 500	Plastic bottle	Matrice: Nitric acid, conc. 10.000 ppm

*Provided with real batch certificate. Verified against NIST Standard Reference***For further information on above products, see following product/application section(s)**

Trace metal analysis (p. 86)



## Europium - Special Grade

## RS-Standard solution for ICP-MS



Code	Size	Packaging	Notes
505601	ml 50	Plastic bottle	Matrice: Nitric acid, conc. 10 ppm
505602	ml 100	Plastic bottle	Matrice: Nitric acid, conc. 10 ppm
505605	ml 100	Plastic bottle	Matrice: Nitric acid, conc. 100 ppm

For further information on above products, see following product/application section(s)

Trace metal analysis (p. 86)

## Fabris-Villavecchia's reagent solution A

Fabris-Villavecchia reattivo soluzione A - Réactif de Fabris-Villavecchia solution A - Fabris-Villavecchia reactivo solución A

## Transport classification

ONU n. 1993

Transport class: 3

Packaging group: II



R: 11-20/22

S: 7-16-36/37

## Fabris-Villavecchia's reagent solution A - Special Grade

## RS-For sesame oil



Description Liq.limp lievemem giallogn

Code	Size	Packaging
449871	ml 250	Bottle

Mixture of furfuryl alcohol and ethanol

## Fabris-Villavecchia's reagent solution B

Fabris-Villavecchia reattivo soluzione B - Réactif de Fabris-Villavecchia solution B - Fabris-Villavecchia reactivo solución B

## Transport classification

ONU n. 1789

Transport class: 8

Packaging group: II



R: 34-37

S: 26-45

## Fabris-Villavecchia's reagent solution B - Special Grade

## RS-For sesame oil



Description Clear colourless liquid

Code	Size	Packaging
449881	ml 1000	Bottle

Hydrochloric acid

## Fast green FCF

Verde solido FCF - Vert solide FCF - Verde sólido FCF

$C_{27}H_{34}Na_2N_2O_{10}S_6$

Atomic weight: 808,86

CAS N: 2353-45-9

EEC N: 219-091-5

## Fast green FCF - Special Grade

## RS-For microscopy-C.I. 42053



Description Red brown powder

Code	Size	Packaging
491391	g 25	Glass jar

Stain for Histology.

For further information on above products, see following product/application section(s)

Microscopy (p. 58)

## Fehling's A reagent

Fehling reattivo soluzione A - Réactif de Fehling solution A - Fehling reactivo solución A

## Fehling's A reagent - Special Grade

## RS-For glucose detection



Assay 69.12 + 69.40 %

Description Clear blue liquid

Density at 20° C 1.037 + 1.043

Code	Size	Packaging
449926	ml 500	Bottle
449927	ml 1000	Bottle

Copper II sulphate

## Fehling's B reagent

Fehling reattivo soluzione B - Réactif de Fehling solution B - Fehling reactivo solución B

## Transport classification

ONU n. 1824

Transport class: 8

Packaging group: II



R: 35

S: 27-37/39-45

## Fehling's B reagent - Special Grade

## RS-For glucose detection



Description Clear colourless liquid

Density at 20° C 1.259 ± 1.265

Alcalinity (NaOH) 119 ± 121 0/00

Code	Size	Packaging
449936	ml 500	Bottle
449937	ml 1000	Bottle

Potassium sodium tartrate and sodium hydroxide

## Ferrocene

Ferrocene - Ferrocène - Ferroceno

 $(C_8H_8)_2Fe$ 

Atomic weight: 186,04

CAS N: 102-54-5

EEC N: 203-039-3



R: 22

S: 36

## Ferrocene - Analytical Grade

## RPE-For analysis



Description Ochre powder

Code	Size	Packaging
451351	g 10	Glass jar

## Ferrioin 0,025 mol/l solution

Ferrioina 0,025 mol/l soluzione - Indicateur Ferrioin 0,025 mol/l - Ferrioina solución 0,025 mol/l

## Ferrioin 0,025 mol/l solution - Special Grade

## RS-For environmental analysis (COD determination)



Code	Size	Packaging
526751	ml 100	Bottle

## Ferron

Ferron - Ferron - Acido 7-yodo-8-hidroxiquinolein-5-sulfónico

 $IC_6H(OH)SO_3HN:CHCH:CH$ 

Atomic weight: 351,13

CAS N: 547-91-1

EEC N: 208-938-4

Synonyms

Acide iodo-7-oxy-8-quinoléine-5-sulfo...

## Ferron - Analytical Grade

## RPE-For analysis



Description Yellow crystalline powder

Loss on drying &lt;=0.5 %

Heavy metals (Pb) &lt;=20 ppm

Residue on ignition &lt;=0.1 %

Iron sensitivity &gt;=5 µg/ml

Fe &lt;=20 ppm

Code	Size	Packaging
406918	g 5	Glass jar

For the extraction and the spectrophometric analysis of Mo(VI), Pd(II), U(VI), V(III)..

## Fixative AFA liquid

Liquido fissatore AFA - Liquide fixateur AFA - Liquido fijador AFA

Transport classification

ONU n. 1993

Transport class: 3

Packaging group: II



R: 11-43

S: 7-9-16-24-37

## Fixative AFA liquid - Special Grade

## RS-For histology



Appearance Yellow liquid

Code	Size	Packaging
526263001	ml 5000	Plastic tank
508840	480 x ml 30	Jar

For further information on above products, see following product/application section(s)

Microscopy (p. 58)

## Fixative Bouin Duboscq Brazil liquid

Liquido fissatore di Bouin Duboscq Brazil - Liquide de Bouin Duboscq-Brazil - Liquido fijador de Bouin Duboscq-Brazil

Transport classification

ONU n. 1993

Transport class: 3

Packaging group: II



R: 20/21/22-36/37/38-40-43

S: 7-16-26-36/37-51

## Fixative Bouin Duboscq Brazil liquid - Special Grade

## Fixative Bouin Duboscq Brazil liquid - Special Grade

## RS-For histology



Code	Size	Packaging
526271	ml 1000	Plastic bottle
526262	ml 5000	Plastic tank

For further information on above products, see following product/application section(s)  
Microscopy (p. 58)

## Fixative Bouin Hollande liquid

Liquido fissatore di Bouin Hollande - Liquide de Bouin Hollande - Liquido fijador de Bouin Holland

Transport classification  
ONU n. 1993  
Transport class: 3  
Packaging group: II



R: 20/21/22-43  
S: 26-36/37/39-51

## Fixative Bouin Hollande liquid - Special Grade

## RS-For histology



Appearance Yellow liquid

Code	Size	Packaging
526268	ml 1000	Plastic bottle
526269	ml 5000	Plastic tank

For further information on above products, see following product/application section(s)  
Microscopy (p. 58)

## Fixative Bouin liquid

Liquido fissatore di Bouin - Liquide de Bouin - Liquido fijador de Bouin

Transport classification  
ONU n. 2810  
Transport class: 3  
Transport class: 6.1  
Packaging group: II



R: 20/21/22-36/37/38-40-43  
S: 26-36/37-51

## Fixative Bouin liquid - Special Grade

## RS-For hematology



Description Yellow clear liquid

Code	Size	Packaging
429751	ml 1000	Glass bottle

## RS-For histology



Code	Size	Packaging
526270	ml 1000	Plastic bottle
526261	ml 5000	Plastic tank
508835	640 x ml 20	Jar

For further information on above products, see following product/application section(s)  
Microscopy (p. 58)

## Fixative Davidson liquid

Liquido fissatore di Davidson - Liquide fixateur de Davidson - Liquido fijador de Davidson

Transport classification  
ONU n. 1993  
Transport class: 3  
Packaging group: II



R: 11-20/21/22-36/37/38-40-43  
S: 24-36/37

## Fixative Davidson liquid - Special Grade

## RS-For histology



Code	Size	Packaging
526277	ml 5000	Plastic tank

For further information on above products, see following product/application section(s)  
Microscopy (p. 58)

## Fixing oil

Olio d'immersione - Huile pour immersion - Aceite de inmersión

Atomic weight: NO  
CAS N: NO  
EEC N: NO



R: 22  
S: 46

## Fixing oil - Special Grade

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
M  
N  
O  
P  
Q  
R  
S  
T  
U  
V  
W  
X  
Y  
Z

## Fixing oil - Special Grade

## RS-For microscopy



Description Clear liquid Density at 20° C &gt;=1.0

Code	Size	Packaging
466782	ml 100	Glass bottle
466783	ml 1000	Glass bottle

For further information on above products, see following product/application section(s)  
Microscopy (p. 58)

## Florisol 60-100 mesh

Florisol 60-100 mesh - Florisol 60-100 mesh - Florisol 60-100 mesh

## Florisol 60-100 mesh - Special Grade

## RS-Adsorbent for chromatography



Description White powder

Code	Size	Packaging	Notes
452331	g 100	Plastic bottle	60-100 mesh
452333	g 500	Plastic jar	60-100 mesh

For further information on above products, see following product/application section(s)  
Chromatography (p. 34)

## RS-For residual pesticides analysis



Description White powder Granulometry 60 mesh ca 2.0 %  
70 mesh ca 20.0 % 80 mesh ca 41.0 % 100 mesh ca 30.0 %  
140 mesh ca 6.9 %

Code	Size	Packaging	Notes
452271	g 100	Plastic bottle	60-100 mesh
452273	g 500	Plastic jar	60-100 mesh

For further information on above products, see following product/application section(s)  
Chromatography (p. 34)

## Florisol 60-100 mesh - Technical Grade

## PS-Pure-for synthesis



Particle size 60 - 100 Mesh MgO 15 - 16 % Na2SO4 <= 1 %  
Silicate (as SiO2) 83.5 - 84.5 mg/Kg

Code	Size	Packaging
P1870013	g 100	Plastic jar
P1870027	g 5000	Metal bucket

## Florisol 100-200 mesh

Florisol 100-200 mesh - Florisol 100-200 mesh - Florisol 100-200 mesh

## Florisol 100-200 mesh - Special Grade

## RS-Adsorbent for chromatography



Description White powder

Code	Size	Packaging	Notes
452351	g 100	Plastic bottle	100-200 mesh
452353	g 500	Plastic jar	100-200 mesh

For further information on above products, see following product/application section(s)  
Chromatography (p. 34)

## Fluorescein acid

Fluoresceina acida - Fluorescèine acide - Fluoresceína acida

$C_{20}H_{12}O_5$   
Atomic weight: 332.3  
CAS N: 2321-07-5  
EEC N: 219-031-8

## Fluorescein acid - Analytical Grade

## RPE-For analysis



Description Red brown powder

Code	Size	Packaging
452083	g 50	Glass bottle
452087	g 500	Metallic can

For further information on above products, see following product/application section(s)  
Chromatography (p. 34)  
Indicators (p. 50)  
Microscopy (p. 58)

## Fluorescein sodium salt

Fluoresceina sodica - Fluorescéine sodique - Fluoresceína sódica

**C<sub>20</sub>H<sub>10</sub>Na<sub>2</sub>O<sub>6</sub>**

Atomic weight: 376,28

CAS N: 518-47-8

EEC N: 208-253-0

R: 36  
S: 25-26-39A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
M  
N  
O  
P  
Q  
R  
S  
T  
U  
V  
W  
X  
Y  
Z

## Fluorescein sodium salt - Analytical Grade

## RPE-For analysis-C.I. 45350

Description Red brick powder  
Absorbtion ind.sensit. Conform  
Loss on drying <=10 %  
Water-insoluble matter <=100 ppm

Code	Size	Packaging
452113	g 50	Jar
452117	g 1000	Plastic jar

For further information on above products, see following product/application section(s)

Chromatography (p. 34)

Indicators (p. 50)

Microscopy (p. 58)

## Fluorescein sodium salt - Technical Grade

## RE-Pure-C.I. 45350



Description Red brick powder

Code	Size	Packaging
345357	g 1000	Plastic jar
345352	g 10000	Carton drum

## Fluorexone

Fluorexone - Fluorexone - Fluorexona

**C<sub>20</sub>H<sub>12</sub>O<sub>13</sub>Na<sub>2</sub>**

Atomic weight: 666,6

CAS N: 1461-15-0

EEC N: 215-957-1

## Fluorexone - Analytical Grade

## RPE-For analysis



Description Orange red powder

Code	Size	Packaging
452141	g 1	Glass bottle

Complexometry indicator

For further information on above products, see following product/application section(s)

Indicators (p. 50)

## Fluoride

Fluoruri - Fluorure - Fluoruro

## Fluoride - Special Grade

## RS-Standard solution for ion chromatography



Code	Size	Packaging	Notes
503250	ml 50	Plastic bottle	conc. 1.000 ppm
503251	ml 100	Plastic bottle	conc. 1.000 ppm
503252	ml 250	Plastic bottle	conc. 1.000 ppm
503253	ml 500	Plastic bottle	conc. 1.000 ppm

For further information on above products, see following product/application section(s)

Chromatography (p. 34)

## Fluorobenzene

Fluorobenzene - Fluorobenzène - Fluorobenceno

**C<sub>6</sub>H<sub>5</sub>F**

Atomic weight: 96,11

CAS N: 462-06-6

EEC N: 207-321-7

Transport classification

ONU n. 2387

Transport class: 3

Packaging group: II

R: 11-20  
S: 16-24/25

## Fluorobenzene - Analytical Grade

## RPE-For analysis

Assay (GLC) >= 98.5 %  
Description Clear colourless liquid

Code	Size	Packaging
452122	ml 100	Glass bottle

## p-Fluorobenzoic acid

Acido p-fluorobenzoico - Acide p-fluorobenzoïque - Acido p-fluorobenzoico

FC<sub>6</sub>H<sub>4</sub>COOH

Atomic weight: 140,12

CAS N: 456-22-4

EEC N: 207-259-0

## p-Fluorobenzoic acid - Analytical Grade

## RPE-For analysis



Assay (acidimetric) &gt;=98.5 %

Description Polvere scaglie bianche

Melting point 184 + 187 ° C

Code	Size	Packaging
405781	g 10	Glass jar

## Folic acid

Acido folico - Acide folique - Acido fólico

C<sub>19</sub>H<sub>19</sub>O<sub>6</sub>N<sub>7</sub>

Atomic weight: 441,40

CAS N: 59-30-3

EEC N: 200-419-0

## Folic acid - Pharmaceutical Grade

## RPH-According to pharmacopoeia: Ph.Eur.-FU-Ph.Franc.-BP-DAB



Assay (HPLC) 96.0 + 102.0 % s.s.

Description Yellow crystalline powder

Sostanze analoghe (HPLC) Conform Ph.Eur.

Water (K.F.) 5.0 + 8.5 %

Sulphated ash &lt;= 0.2 %

Origin (BSE/TSE) Vegetable

Code	Size	Packaging
390308	g 5	Glass bottle

## Folin-Ciocalteu's reagent

Folin-Ciocalteu reattivo - Réactif de Folin-Ciocalteu - Folin-Ciocalteu reactivo

Transport classification

ONU n. 3264

Transport class: 8

Packaging group: III



R: 36/38

S: 28

## Folin-Ciocalteu's reagent - Special Grade

## RS-For microscopy



Titolo (equiv. di acido) 1.9 + 2.1 N

Description Yellow clear liquid

Sensibilità ai fenoli (A a 650nm) &gt;= 0.26

Code	Size	Packaging
463562	ml 500	Glass bottle

For the analysis of phenols. Keep at +4°C.

## Formaldehyde 40% m/v

Aldeide formica 40% (m/v) - Aldéhyde formique 40% m/v - Formaldehído 40% m/v

HCHO

Atomic weight: 30,026

CAS N: 50-00-0

EEC N: 200-001-8

Transport classification

ONU n. 2209

Transport class: 8

Packaging group: III



R: 23/24/25-34-40-43-68/20/21/22

S: 7-26-36/37/39-45

## Formaldehyde 40% m/v - Analytical Grade

## RPE-For analysis



Assay (oxidimetric) &gt;=37 % (m/v)

Description Clear liquid

Colour (APHA) &lt;=10

Density at 20°C 1.085 + 1.092

Acidity (formic acid) &lt;=200 ppm

Chloride &lt;=5 ppm

Heavy metals (Pb) &lt;=2 ppm

Residue on ignition &lt;=100 ppm

Sulphate &lt;=20 ppm

Fe &lt;=1 ppm

Pb &lt;=1 ppm

Code	Size	Packaging
415661	ml 1000	Plastic bottle
415666	ml 2500	Plastic bottle
415667	ml 5000	Plastic bottle
415669	kg 30	Plastic drum
415662	kg 55	Plastic drum

Stabilized with 10% of methanol.

For further information on above products, see following product/application section(s)

Microscopy (p. 58)

## Formaldehyde 40% m/v neutralized

Aldeide formica 40% (m/v) neutralizzata - Aldéhyde formique 40% m/v neutre - Formaldehído 40% m/v neutralizada

HCHO

Atomic weight: 30,026

CAS N: 50-00-0

EEC N: 200-001-8

Transport classification

ONU n. 2209

Transport class: 8

Packaging group: III



R: 23/24/25-34-40-43-68/20/21/22

S: 7-26-36/37/39-45

## Formaldehyde 40% m/v neutralized - Special Grade

## Formaldehyde 40% m/v neutralized - Special Grade



## RS-For histology

Code	Size	Packaging
415683	g 10000	Plastic drum
415686	ml 1000	Plastic bottle
415682	ml 5000	Plastic bottle
415684	kg 30	Plastic drum
415685	kg 55	Plastic drum

Stabilized with 10% of methanol. Neutralized with dolomia

For further information on above products, see following product/application section(s)  
Microscopy (p. 58)

## Formaldehyde 35% m/m

Aldeide formica 35% (m/m) - Aldéhyde formique 35% m/m - Formaldehído 35% (m/m)

## HCHO

Atomic weight: 30,026  
CAS N: 50-00-0  
EEC N: 200-001-8

## Transport classification

ONU n. 2209  
Transport class: 3  
Transport class: 8  
Secondary risk: 8  
Packaging group: IIIR: 23/24/25-34-40-43-68/20/21/22  
S: 7-26-36/37/39-45

## Formaldehyde 35% m/m - Pharmaceutical Grade



## RPH-According to pharmacopoeia: Ph.Eur.-FU-Ph.Franc.-BP

Code	Size	Packaging
310351	ml 1000	Plastic bottle
310356	ml 2500	Plastic bottle
310358	ml 5000	Plastic bottle
310349	g 10000	Plastic drum
310348	kg 30	Plastic drum
310355	kg 55	Plastic drum
310353	kg 55	Drum

Stabilized with 10% of methanol.

For further information on above products, see following product/application section(s)  
Microscopy (p. 58)

## Formaldehyde 35% m/m - Technical Grade



## RE-Pure

Code	Size	Packaging
524930	ml 5000	Plastic tank

For further information on above products, see following product/application section(s)  
Microscopy (p. 58)

## Formaldehyde 10% (v/v) according to Lillie

Aldeide formica 10% (v/v) (Liquido di Lillie) - Aldéhyde formique 10% v/v selon Lillie - Formaldehído 10% (v/v) según Lillie

## HCHO

Atomic weight: 30,038  
CAS N: 50-00-0  
EEC N: 200-001-8R: 40-43  
S: 26-36/37

## Formaldehyde 10% (v/v) according to Lillie - Special Grade



## RS-For histology

Code	Size	Packaging
415703	l 10	Kubidos

Not buffered

For further information on above products, see following product/application section(s)  
Microscopy (p. 58)

## Formaldehyde 10% (v/v) according to Lillie Rose

Aldeide formica 10% (v/v) secondo Lillie Rose - Aldéhyde formique 10% v/v selon Lillie Rose - Formaldehído 10% (v/v) según Lillie Rose

CH<sub>2</sub>OHCHOAtomic weight: 30,038  
CAS N: 50-00-0  
EEC N: 200-001-8

## Transport classification

Transport class: 3  
Packaging group: IIR: 20/21/22-26-36/37-40-43  
S: 24-36/37

## Formaldehyde 10% (v/v) according to Lillie Rose - Special Grade

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
M  
N  
O  
P  
Q  
R  
S  
T  
U  
V  
W  
X  
Y  
Z

## Formaldehyde 10% (v/v) according to Lillie Rose - Special Grade

## RS-For histology



Description Clear pink liquid pH at 20°C 6.8 + 7.0

Code	Size	Packaging
508850	480 x ml 30	Jar

Contains Eosin.

For further information on above products, see following product/application section(s)  
Microscopy (p. 58)

## Formaldehyde 4% m/v buffered at pH 6.9

Aldeide formica 4% (m/v) tamponata pH 6,9 - Aldéhyde formique 4% m/v tamponné à pH 6,9 - Formaldehído 4% (m/v) tamponata pH 6,9

## HCHO

Atomic weight: 30,038  
CAS N: 50-00-0  
EEC N: 200-001-8

## Transport classification

Transport class: 3  
Packaging group: IIR: 40-43  
S: 7-26-36/37/39-45

## Formaldehyde 4% m/v buffered at pH 6.9 - Special Grade

## RS-For histology

Assay (oxidimetric) >= 4.0 % Description Clear colourless liquid pH at 20°C 6.8 + 7.0  
Density at 20°C >= 1.00

Code	Size	Packaging
415694	ml 1000	Plastic bottle
415691	ml 5000	Plastic bottle
415695	ml 5000	Kubidos
415693	l 10	Kubidos
415692	kg 30	Plastic drum
508861	480 x ml 30	Jar
508862	160 x ml 120	Jar

Formaldehyde 10% (v/v) - 4% (m/v) buffered at pH 6,9 and stabilized with ~1% of methanol.

For further information on above products, see following product/application section(s)  
Microscopy (p. 58)

## Formaldehyde 4% m/v with sodium chloride

Aldeide formica 4% (m/v) con sodio cloruro - Aldéhyde formique 4% m/v salé - Formaldehído 4% (m/m) con sodio cloruro

## HCHO

Atomic weight: 30,026  
CAS N: 50-00-0  
EEC N: 200-001-8R: 40-43  
S: 7-26-36/37/39-45

## Formaldehyde 4% m/v with sodium chloride - Special Grade

## RS-For histology



Description Clear colourless liquid pH at 20°C 7.30 + 7.40 Stabilized with 1% of methyl alcohol

Code	Size	Packaging
526934	ml 1000	Plastic bottle

## Formaldehyde and acetic acid

Aldeide formica e acido acetico - Formol acétique - Formol acético

## HCHO

CAS N: 50-00-0  
EEC N: 200-001-8

## Transport classification

ONU n. 3265  
Transport class: 3  
Transport class: 8  
Packaging group: II  
Packaging group: IIIR: 20/21/22-36/37-40-43  
S: 24-36/37

## Formaldehyde and acetic acid - Special Grade

## RS-For histology



Code	Size	Packaging
526273	ml 5000	Plastic tank
508871	480 x ml 30	Jar

For further information on above products, see following product/application section(s)  
Microscopy (p. 58)

## Formamide

Formammide - Formamide - Formamida

HCONH<sub>2</sub>Atomic weight: 45,041  
CAS N: 75-12-7  
EEC N: 200-842-0R: 61  
S: 53-45Synonyms  
Carbamaldéhyde

## Formamide - Analytical Grade



A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
M  
N  
O  
P  
Q  
R  
S  
T  
U  
V  
W  
X  
Y  
Z

## Formamide - Analytical Grade

## PA-PUREX-for analysis

sds

Assay (GC) >= 99 % Refractive index at 20°C 1.445 - 1.449 Water content (K.F.) <= 1000 mg/Kg  
 Colour <= 10 Hazen

Code	Size	Packaging
P6150515	ml 1000	Plastic bottle
P6150567	l 200	Plastic drum

## RPE-ACS-for analysis

CARLO ERBA  
Quality since 1874

Assay (GLC) >= 99.5 % Description Clear liquid Colour (APHA) <= 10  
 Freezing point 2.0 + 3.0 °C

Code	Size	Packaging
452282	ml 250	Glass bottle
452286	ml 1000	Glass bottle
452281	kg 230	Metal drum

## Formamide - Special Grade

## RS-Anhydrous-for analysis

sds

Assay (GC) >= 99 % Refractive index at 20°C 1.445 - 1.449 Water content (K.F.) <= 500 mg/Kg  
 Colour <= 10 Hazen Methanol <= 0.1 %

Code	Size	Packaging	Notes
P6151010	ml 200	Bottle with sept	with septum

For further information on above products, see following product/application section(s)  
 Anhydrous solvents (p. 27)

## Formic acid 99%

Acido formico 99% - Acide formique 99% - Acido fórmico 99%

HCOOH  
 Atomic weight: 46,026  
 CAS N: 64-18-6  
 EEC N: 200-579-1

Transport classification  
 ONU n. 1779  
 Transport class: 8  
 Packaging group: II



R: 34  
 S: 23-26-45

## Formic acid 99% - Analytical Grade

## RPE-ACS-for analysis-Reag. Ph.Eur.-Reag. USP

CARLO ERBA  
Quality since 1874

Assay (acidimetric) >=98 % Description Clear liquid Colour (APHA) <=10  
 Water miscibility Conform Density at 20° C 1.218 + 1.222 Refractive index at 20° 1.3709 + 1.3719  
 Boiling point 100.2 + 101.2 °C Residue on evaporation <=20 ppm Acetic acid <=500 ppm  
 Ammonium <=10 ppm Total nitrogen <=20 ppm Chloride <=5 ppm  
 Heavy metals (Pb) <=2 ppm Oxalate <=50 ppm Sulphate <=5 ppm  
 Sulphite <=10 ppm Ag <=0.02 ppm Al <=0.05 ppm  
 Ba <=0.05 ppm Bi <=0.1 ppm Ca <=0.2 ppm  
 Cd <=0.05 ppm Co <=0.02 ppm Cr <=0.05 ppm  
 Cu <=0.02 ppm Fe <=2 ppm K <=0.1 ppm  
 Li <=0.02 ppm Mg <=0.5 ppm Mn <=0.05 ppm  
 Mo <=0.02 ppm Na <=0.5 ppm Ni <=0.05 ppm  
 Pb <=0.02 ppm Sr <=0.02 ppm V <=0.05 ppm  
 Zn <=0.05 ppm

Code	Size	Packaging
405792	ml 1000	Glass bottle
405794	kg 30	Polythene-carton drum

## Formic acid 99% - Pharmaceutical Grade

## RPH-According to pharmacopoeia: DAB

CARLO ERBA  
Quality since 1874

Assay (acidimetric) >= 98 % m/m Description Clear colourless liquid Density at 20° C 1.218 + 1.222  
 Origin (BSE/TSE) Synthesis

Code	Size	Packaging
303911	ml 1000	Glass bottle
303913	kg 30	Polythene-carton drum

## Formic acid 98%

Acido formico 98% - Acide formique 98% - Acido fórmico 98%

HCOOH  
 Atomic weight: 46,026  
 CAS N: 64-18-6  
 EEC N: 200-579-1

Transport classification  
 ONU n. 1779  
 Transport class: 8  
 Packaging group: II



R: 34  
 S: 23-26-45

## Formic acid 98% - Analytical Grade

## Formic acid 98% - Analytical Grade

## PA-PUREX-for analysis

sds

Refractive index at 20°C 1.369 - 1.373

Colour &lt;= 10 Hazen

Formic acid content &gt;= 98 %

Acetic acid &lt;= 150 mg/Kg

Iron (Fe) &lt;= 1 mg/Kg

Chloride (Cl-) &lt;= 1 mg/Kg

Sulphate (SO4--) &lt;= 1 mg/Kg

Heavy metals (as Pb) &lt;= 1 mg/Kg

Non volatile residue &lt;= 20 mg/Kg

Code	Size	Packaging
P6160529	ml 5000	Plastic drum
P6160567	l 200	Plastic drum

## Formic acid 85%

Acido formico 85% - Acide formique 85% - Acido fórmico 85%

## HCOOH

Atomic weight: 46,026

CAS N: 64-18-6

EEC N: 200-579-1

## Transport classification

ONU n. 1779

ONU n. 3412

Transport class: 8

Packaging group: II



R: 34

S: 23-26-45

## Formic acid 85% - Analytical Grade

## RPE-For analysis

CARLO ERBA  
Quality since 1824

Assay (acidimetric) 85 ± 87 %

Description Clear liquid

Colour (APHA) &lt;=10

Water miscibility Conform

Density at 20° C 1.197 ± 1.199

Residue on evaporation &lt;=20 ppm

Acidity (acetic acid) &lt;=500 ppm

Ammonium &lt;=10 ppm

Total nitrogen &lt;=20 ppm

Chloride &lt;=5 ppm

Heavy metals (Pb) &lt;=2 ppm

Oxalate &lt;=50 ppm

Sulphate &lt;=5 ppm

Sulphite &lt;=10 ppm

Ag &lt;=0.02 ppm

Ba &lt;=0.05 ppm

Bi &lt;=0.1 ppm

Cd &lt;=0.05 ppm

Co &lt;=0.02 ppm

Cr &lt;=0.05 ppm

Cu &lt;=0.02 ppm

Fe &lt;=2 ppm

K &lt;=0.1 ppm

Li &lt;=0.02 ppm

Mg &lt;=0.5 ppm

Mn &lt;=0.05 ppm

Mo &lt;=0.02 ppm

Ni &lt;=0.05 ppm

Sr &lt;=0.02 ppm

V &lt;=0.05 ppm

Zn &lt;=0.05 ppm

Code	Size	Packaging
405832	ml 1000	Glass bottle
405833	ml 2500	Glass bottle
405835	kg 30	Polythene-carton drum

## Formic acid 85% - Technical Grade

## RE-Pure

CARLO ERBA  
Quality since 1824

Assay (acidimetric) 84 ± 87 %

Description Clear liquid

Density at 20° C 1.197 ± 1.199

Residue on evaporation &lt;=0.5 %

Chloride &lt;=10 ppm

Heavy metals (Pb) &lt;=50 ppm

Sulphate &lt;=300 ppm

Fe &lt;=50 ppm

Code	Size	Packaging
303905	ml 1000	Glass bottle
303901	kg 30	Polythene-carton drum

## Formic acid-d

Acido formico-d - Acide formique-d - Acido fórmico-d

## HCOOD

Atomic weight: 47,040

CAS N: 917-71-5

EEC N: 200-579-1

## Transport classification

ONU n. 1779

Transport class: 8

Packaging group: II



R: 34

S: 23-26-45

## Formic acid-d - Special Grade

## RS-For NMR spectroscopy

sds

Code	Size	Packaging	Notes
P5733	1 x ml 5	Glass bottle	Isotopic purity 99,00%

For further information on above products, see following product/application section(s)

NMR Spectroscopy (p. 65)

## D(-)Fructose

D(-)Fructosio - D(-)Fructose - D(-)Fructosa

CH<sub>2</sub>OH(C(OH)(CHOH))<sub>5</sub>CH<sub>2</sub>

Atomic weight: 180,16

CAS N: 57-48-7

EEC N: 200-333-3

Synonyms  
Lévulose

## D(-)Fructose - Analytical Grade

## D(-)Fructose - Analytical Grade



## RPE-For analysis

Description White powder	Melting point 101.5 ± 104.5 ° C	Specific optical rotation -93.0 ± -91.0 °
Loss on drying ≤0.5 %	Chloride ≤10 ppm	Water-insoluble matter ≤100 ppm
Heavy metals (Pb) ≤10 ppm	Residue on ignition ≤300 ppm	Sulphate ≤50 ppm
As ≤1 ppm	Fe ≤10 ppm	

Code	Size	Packaging
452666	g 500	Plastic jar
452662	g 5000	Plastic jar
452667	kg 50	Fibre drum

For biochemistry

## Fuchsin acid

*Fucsina acida - Fuchsine acide - Fucsina ácida*

**C<sub>20</sub>H<sub>17</sub>Na<sub>2</sub>O<sub>8</sub>S<sub>2</sub>**  
 Atomic weight: 585.54  
 CAS N: 3244-88-0  
 EEC N: 221-816-5



R: 20/21/22  
 S: 36/37

## Fuchsin acid - Analytical Grade



## RPE-For analysis-C.I. 42685

Description Dark green crystals      Decolorization with SO<sub>2</sub> Conform

Code	Size	Packaging
452812	g 25	Glass jar

Stain for Microscopy (botany-histology). Indicator (pH 12,0±14,0).

For further information on above products, see following product/application section(s)  
 Microscopy (p. 58)

## Fuchsin basic

*Fucsina basica - Fuchsine basique - Fucsina básica*

**C<sub>20</sub>H<sub>20</sub>ClN<sub>2</sub>**  
 Atomic weight: 337.85  
 CAS N: 632-99-5  
 EEC N: 211-189-6



R: 20/21/22-40  
 S: 22-36/37/39-45

## Fuchsin basic - Analytical Grade



## RPE-For analysis-C.I. 42510

Description Green crystals      Decolorization with SO<sub>2</sub> Conform

Code	Size	Packaging
452842	g 25	Glass jar
452844	g 100	Plastic jar

Stain for Microscopy (bacteriology-botany-histology) Indicator (pH 1,0-3,1).

For further information on above products, see following product/application section(s)  
 Microscopy (p. 58)

## Fumaric acid

*Acido fumarico - Acide fumarique - Acido fumárico*

**HOOCCH<sub>2</sub>CHCOOH**  
 Atomic weight: 116.07  
 CAS N: 110-17-8  
 EEC N: 203-743-0



R: 36  
 S: 26

## Fumaric acid - Analytical Grade



## RPE-For analysis

Assay (acidimetric) ≥99.5 %	Description White cryst. powder	Melting point 288.5 ± 293.5 ° C
Chloride ≤50 ppm	Heavy metals (Pb) ≤5 ppm	Residue on ignition ≤50 ppm
Total sulphur ≤5 ppm	As ≤2 ppm	Fe ≤5 ppm

Code	Size	Packaging
406284	g 100	Glass jar
406287	g 1000	Plastic jar

## Fumaric acid - Pharmaceutical Grade



## RPH-According to pharmacopoeia: NF

Assay (acidimetric) 99.5 ± 100.5 % s.s.	Description White crystalline powder	Organic volatile impurities Conform USP-NF
Maleic acid (HPLC) ≤0.1 %	Water (K.F.) ≤0.5 %	Sulphated ash ≤0.1 %
Heavy metals (Pb) ≤10 ppm	Origin (BSE/TSE) Synthesis	Residual solvents (CPMP/ICH/283/95) Conform

Code	Size	Packaging
304151	kg 25	Fibre drum

## 2-Furaldehyde

2-Furaldeide - 2-Furaldéhyde - 2-Furaldehido

**OCH:CHCH:CCHO**  
 Atomic weight: 96,086  
 CAS N: 98-01-1  
 EEC N: 202-627-7

**Transport classification**  
 ONU n. 1199  
 Transport class: 6.1  
 Secondary risk: 3  
 Packaging group: II



R: 21-23/25-36/37-40  
 S: 26-36/37/39-45

## 2-Furaldehyde - Analytical Grade

## RPE-For analysis



Assay (GLC) >=98 %	Description Yellow clear liquid	Density at 20° C 1.156 ± 1.164
Refractive index at 20° 1.5226 ± 1.5296	Boiling point 161.2 ± 162.2 °C	Acidity <=0.025 meq/g
Water (K.F.) <=0.1 %	Residue on ignition <=10 ppm	

Code	Size	Packaging
452942	ml 100	Glass vial

## 2-Furaldehyde - Technical Grade

## RE-Pure



Assay (GLC) >=98 %	Description Brown clear liquid	Density at 20° C 1.155 ± 1.165
Refractive index at 20° 1.5211 ± 1.5311	Boiling point 160.7 ± 162.7 °C	Water (K.F.) <=0.5 %
Acidity(Furancarbons.ac) <=0.5 %	Residue on ignition <=100 ppm	

Code	Size	Packaging
346001	ml 1000	Glass bottle

## Furfuryl alcohol

Alcole furfurilico - Alcool furfurylique - Alcohol furfurilico

**OCH:CHCH:CCH<sub>2</sub>OH**  
 Atomic weight: 98,10  
 CAS N: 98-00-0  
 EEC N: 202-626-1

**Transport classification**  
 ONU n. 2874  
 Transport class: 6.1  
 Packaging group: III



R: 20/21/22

## Furfuryl alcohol - Analytical Grade

## RPE-For analysis



Assay (GLC) >=99 %	Description Yellow clear liquid	Density at 20° C 1.128 ± 1.132
Refractive index at 20° 1.4825 ± 1.4865	Boiling point 165.5 ± 170.5 °C	Water (K.F.) <=0.2 %
Acidity (acetic acid) <=500 ppm	Alcalinity (NaOH) <=10 ppm	Carbonyl Compounds (CO) <=0.1 %
Residue on ignition <=100 ppm		

Code	Size	Packaging
414767	ml 1000	Bottle

## Furfuryl alcohol - Technical Grade

## RE-Pure



Assay (GLC) >=98 %	Description Yellow-brown clear liquid	Density at 20° C 1.126 ± 1.134
Refractive index at 20° 1.4805 ± 1.4885	Boiling point 169.0 ± 171.0 °C	Water (K.F.) <=0.2 %
Acidity (acetic acid) <=0.1 %	Residue on ignition <=100 ppm	

Code	Size	Packaging
308751	ml 1000	Glass bottle

## α-Furildioxime

alfa-Furildiossima - alpha-Furildioxime - alpha-Furildioxima

**OCH:CHCH:CC(NOH)C(NOH)C:CHCH:CHO**  
 Atomic weight: 220,19  
 CAS N: 522-27-0  
 EEC N: 208-326-7

## α-Furildioxime - Analytical Grade

## RPE-For analysis



Description Ivory powder	Residue on ignition <=100 ppm	Nikel sensitivity <=0.2 µg/ml
--------------------------	-------------------------------	-------------------------------

Code	Size	Packaging
452981	g 1	Glass bottle

## Gadolinium

Gadolinio - Gadolinium - Gadolinio

Gd

**Transport classification**  
 ONU n. 3264



R: 34  
 S: 26-36/37/39-45

## Gadolinium - Special Grade

## Gadolinium - Special Grade

## RS-Standard solution for ICP



Code	Size	Packaging	Notes
503601	ml 100	Plastic bottle	Matrice: Nitric acid, conc. 1.000 ppm
503605	ml 100	Plastic bottle	Matrice: Nitric acid, conc. 10.000 ppm
503603	ml 500	Plastic bottle	Matrice: Nitric acid, conc. 1.000 ppm
503607	ml 500	Plastic bottle	Matrice: Nitric acid, conc. 10.000 ppm

Provided with real batch certificate. Verified against NIST Standard Reference

For further information on above products, see following product/application section(s)  
Trace metal analysis (p. 86)

## RS-Standard solution for ICP-MS



Code	Size	Packaging	Notes
505621	ml 50	Plastic bottle	Matrice: Nitric acid, conc. 10 ppm
505622	ml 100	Plastic bottle	Matrice: Nitric acid, conc. 10 ppm
505625	ml 100	Plastic bottle	Matrice: Nitric acid, conc. 100 ppm

For further information on above products, see following product/application section(s)  
Trace metal analysis (p. 86)

## D(+)-Galactose

D(+)-Galattosio - D(+)-Galactose - D(+)-Galactosa

CH2OHCH(CHOH)5CHOH

Atomic weight: 180,16

CAS N: 59-23-4

EEC N: 200-416-4

Synonyms  
Cérébrose

## D(+)-Galactose - Analytical Grade

## RPE-For analysis



Description White powder Potere rotat. spec. a20°C (C=10;H2O;NH3) +78 + +81.5 ° (s.s.) Water (K.F.) <= 0.3 %  
Sulphated ash <= 0.1 %

Code	Size	Packaging
453125	g 250	Plastic jar
453126	g 1000	Plastic jar
453121	kg 25	Fibre drum

For biochemistry

## Gallic acid

Acido gallico - Acide gallique - Acido gálico

3,4,5-(OH)3C6H2COOH.H2O

Atomic weight: 188,14

CAS N: 5995-86-8

EEC N: 205-749-9



R: 36/38  
S: 7-22

## Gallic acid - Analytical Grade

## RPE-For analysis



Assay (acidimetric) >= 99.0 % (s.s.) Description White powder Loss on drying <= 10 %  
Sulphate <=200 ppm Sulphated ash <= 0.1 %

Code	Size	Packaging
406335	g 250	Plastic jar

## Gallic acid - Technical Grade

## RE-Pure



Description Yellow crystalline powder Loss on drying 100° C <=10 % Residue on ignition <=0.1 %  
Sulphate <=500 ppm

Code	Size	Packaging
304202	g 5000	Carton box

## Gallium

Gallio - Gallium - Galio

Ga

## Gallium - Special Grade

## RS-Standard solution for ICP-MS



Code	Size	Packaging	Notes
505616	ml 50	Plastic bottle	Matrice: Nitric acid, conc. 10 ppm
505617	ml 100	Plastic bottle	Matrice: Nitric acid, conc. 10 ppm
505618	ml 100	Plastic bottle	Matrice: Nitric acid, conc. 100 ppm

For further information on above products, see following product/application section(s)  
Trace metal analysis (p. 86)

## Gelatine

Gelatina - Gélatine - Gelatina

CAS N: 9000-70-8  
EEC N: 232-554-6

## Gelatine - Special Grade

## RS-For microbiology



Description Yellowish crystalline powder Loss on drying &lt;= 13 % Sulphated ash &lt;= 2 %

Code	Size	Packaging
453226	g 500	Bag

For further information on above products, see following product/application section(s)

Microscopy (p. 58)

## Gentian violet

Violetto genziana - Violet de gentiane - Violeta de genciana

CAS H<sub>260</sub> C<sub>16</sub> N<sub>4</sub>  
Atomic weight: 408,0  
CAS N: 548-62-9  
EEC N: 208-953-6Transport classification  
ONU n. 3077  
Transport class: 9  
Packaging group: IIIR: 22-40-41-50/53  
S: 26-36/37/39-46-60-61

## Gentian violet - Technical Grade

## RE-Pure



Description Dark green powder Loss on drying 100° C &lt;=10 %

Code	Size	Packaging
388701	g 50	Glass jar
388702	g 1000	Plastic jar

Stain for Microscopy (bacteriology).

For further information on above products, see following product/application section(s)

Microscopy (p. 58)

## Gentian Violet carbolated solution

Violetto genziana soluzione fenicata - Violet de gentiane solution phéniquée - Violeta de genciana solución fenicada

CAS H<sub>260</sub> C<sub>16</sub> N<sub>4</sub>  
CAS N: 548-62-9  
EEC N: 208-953-6R: 10-21/22-36/38  
S: 24

## Gentian Violet carbolated solution - Special Grade

## RS-For microscopy



Description Violet clear liquid

Code	Size	Packaging	Notes
491661	ml 250	Glass bottle	According to Nicolle
491651	ml 250	Glass bottle	According to Gram
491661	ml 250	Glass bottle	According to Nicolle

For further information on above products, see following product/application section(s)

Microscopy (p. 58)

## Germanium

Germanio - Germanium - Germanio

Ge

Transport classification  
ONU n. 3289R: R23/24/25-34  
S: S36/37-26

## Germanium - Special Grade

## RS-Standard solution for ICP



Code	Size	Packaging	Notes
504251	ml 100	Plastic bottle	Matrice: Nitric acid and hydrofluoric acid, conc. 1.000 ppm
504255	ml 100	Plastic bottle	Matrice: Nitric acid and hydrofluoric acid, conc. 10.000 ppm
504253	ml 500	Plastic bottle	Matrice: Nitric acid and hydrofluoric acid, conc. 1.000 ppm
504257	ml 500	Plastic bottle	Matrice: Nitric acid and hydrofluoric acid, conc. 10.000 ppm

Provided with real batch certificate. Verified against NIST Standard Reference

For further information on above products, see following product/application section(s)

Trace metal analysis (p. 86)

## RS-Standard solution for ICP-MS



Code	Size	Packaging	Notes
505631	ml 50	Plastic bottle	Matrice: Nitric acid and hydrofluoric acid, conc. 10 ppm
505632	ml 100	Plastic bottle	Matrice: Nitric acid and hydrofluoric acid, conc. 10 ppm
505635	ml 100	Plastic bottle	Matrice: Nitric acid and hydrofluoric acid, conc. 100 ppm

For further information on above products, see following product/application section(s)

Trace metal analysis (p. 86)

## Giemsa's reagent

Giemsa reattivo - Réactif de Giemsa - Giemsa reactivo

## Transport classification

ONU n. 1992

Transport class: 3

Secondary risk: 6.1

Packaging group: II

R: 11-23/24/25-39/23/24/25  
S: 7-16-24-45A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
M  
N  
O  
P  
Q  
R  
S  
T  
U  
V  
W  
X  
Y  
Z

## Giemsa's reagent - Special Grade

## RS-For microscopy



Description Blue clear liquid

Functionality Conform

Code	Size	Packaging
453612	6 x ml 100	Glass bottle
453613	6 x ml 500	Glass bottle
453615	4 x ml 2500	Glass bottle

Stain for Haematology According to Romanowski.

## Girard's P reagent

Girard P reattivo - Réactif de Girard P - Girard P reactivo

 $[\text{NH}_2\text{NHCOC}_6\text{H}_4\text{N}(\text{C}_6\text{H}_5)_2\text{Cl}]$ 

Atomic weight: 187,64

CAS N: 1126-58-5

EEC N: 214-421-4

## Girard's P reagent - Special Grade

## RS-For microscopy



Assay (argentimetric) 98 + 100 %

Description Yellowish powder

Residue on ignition &lt;=100 ppm

Code	Size	Packaging
453682	g 25	Glass jar

Stain for Microscopy.

## Girard's T reagent

Girard T reattivo - Réactif de Girard T - Girard T reactivo

 $[\text{NH}_2\text{NHCOC}_6\text{H}_4\text{N}(\text{CH}_3)_2\text{Cl}]$ 

Atomic weight: 167,65

CAS N: 123-46-6

EEC N: 204-629-3

## Girard's T reagent - Special Grade

## RS-For microscopy



Assay (non-aqueous medium) &gt;=99 %

Description White crystalline powder

Residue on ignition &lt;=100 ppm

Code	Size	Packaging
453702	g 25	Glass jar

Stain for Microscopy.

## Glass wool

Lana di vetro - Laine de verre - Lana de vidrio

CAS N: 7631-86-9

EEC N: 231-545-4

## Glass wool - Analytical Grade

## RPE-For analysis



Description White fibres

Alcalinity (NaOH) &lt;=0.1 %

Heavy metals (Pb) &lt;=50 ppm

Code	Size	Packaging
457521	g 250	Plastic bottle

## Glucono-d-lactone

Glucono-d-lattone - Glucono-Ŷ-lactone - Glucono-lactona

 $\text{C}_6\text{H}_{10}\text{O}_6$ 

Atomic weight: 178,14

CAS N: 90-80-2

EEC N: 202-016-5

## Glucono-d-lactone - Technical Grade

## RE-Pure



Assay (acidimetric) 99 + 100 %

Description Whitish powder

Melting point 152.0 + 157.0 ° C

Heavy metals (Pb) &lt;=20 ppm

Residue on ignition &lt;=0.1 %

Pb &lt;=2 ppm

Reducing substances &lt;=0.5 %

Code	Size	Packaging
346801	g 100	Glass jar

**D(+)**Glucose anhydrous*D(+)*Glucosio anidro - *D(+)*Glucose anhydre - *D(+)*Glucosa anhidra**CH<sub>2</sub>OHCH(CHOH)<sub>4</sub>CHO**

Atomic weight: 180,16

CAS N: 50-99-7

EEC N: 200-075-1

**D(+)**Glucose anhydrous - Analytical Grade**RPE-ACS-for analysis**

Description White crystalline powder	Specific optical rotation +52.5 + 53.0 °	Loss on drying <=0.2 %
Acidity <=0.002 meq/g	Starch Conform	Chloride <=100 ppm
Water-insoluble matter <=50 ppm	Heavy metals (Pb) <=5 ppm	Residue on ignition <=200 ppm
Sulphat + sulphit (SO <sub>4</sub> ) <=50 ppm	Fe <=5 ppm	

Code	Size	Packaging
454336	g 500	Plastic jar
454337	g 1000	Plastic jar
454338	g 2500	Plastic jar
454333	kg 25	Carton drum

For biochemistry

**D(+)**Glucose anhydrous - Pharmaceutical Grade**RPH-According to pharmacopoeia: Ph.Eur.-USP-FU-Ph.Franc.-BP-DAB**

Description White crystalline powder	Appearance of solution Conform Ph.Eur.	Acidity or alkalinity Conform Ph.Eur.
Barium Conform Ph.Eur.	For.sug. sol.starch dex Conform Ph.Eur.	Solub. starch, sulphite Conform USP-NF
Dextrine Conform USP-NF	Specific optical rotation at 20°C (anhyd 52.5 + 53.3 °	Sulphated ash <= 0.1 %
Chloride <= 125 ppm	Sulphate <= 200 ppm	Sulphite <= 15 ppm
Heavy metals (Pb) <= 5 ppm	As <= 1 ppm	Ca <= 200 ppm
Water (K.F.) <= 0.5 %	Pb in sugars <= 0.5 ppm	Origin (BSE/TSE) Synthesis

Code	Size	Packaging
346987	g 1000	Plastic jar
346989	g 5000	Plastic jar
346983	kg 25	Tank
346984	kg 50	Drum

**D(+)**Glucose monohydrate*D(+)*Glucosio monoidrato - *D(+)*Glucose monohydraté - *D(+)*Glucosa monohidrato**CH<sub>2</sub>OHCH(CHOH)<sub>4</sub>CHOH.H<sub>2</sub>O**

Atomic weight: 198,17

CAS N: 5996-10-1

EEC N: 200-075-1

**D(+)**Glucose monohydrate - Pharmaceutical Grade**RPH-According to pharmacopoeia: Ph.Eur.-USP-FU-Ph.Franc.-BP-DAB**

Description White crystalline powder	Appearance of solution Conform Ph.Eur.	Barium Conform Ph.Eur.
For.sug. sol.starch dex Conform Ph.Eur.	Solub. starch, sulphite Conform USP-NF	Dextrine Conform USP-NF
Specific optical rotation at 20°C (anhyd 52.5 + 53.3 °	Pb in sugars <= 0.5 ppm	Water (K.F.) 7.5 + 9.5 %
Chloride <= 125 ppm	Sulphate <= 200 ppm	Sulphite <= 15 ppm
Heavy metals (Pb) <= 5 ppm	As <= 1 ppm	Ca <= 200 ppm
Acidity or alkalinity Conform Ph.Eur.	Sulphated ash <= 0.1 %	Origin (BSE/TSE) Synthesis

Code	Size	Packaging
346971	g 1000	Plastic jar
346972	g 5000	Plastic jar
346974	kg 50	Carton drum

**L(+)**Glutamic acid*Acido L(+)*glutammico - *Acide L(+)*glutamique - *Acido L(+)*glutámico**HOOCCH(NH<sub>2</sub>)CH<sub>2</sub>CH<sub>2</sub>COOH**

Atomic weight: 147,13

CAS N: 56-86-0

EEC N: 200-293-7

**L(+)**Glutamic acid - Analytical Grade**RPE-For analysis**

<b>Assay (non-aqueous medium) 98.5 + 100.5 % (s.s.)</b>	Description White powder	Potere rotat. specif. a 20°C +30.5 + 32.5 ° (s.s.)
Loss on drying <= 0.5 %	Ammonium <= 200 ppm	Chloride <= 200 ppm
Sulphate <= 300 ppm	Heavy metals (Pb) <= 10 ppm	Residue on ignition <= 0.1 %
Transmittance at 430nm (C=10; HCl 2N) >= 98 %	Other amino-acids Not detectables	As <sub>2</sub> O <sub>3</sub> <= 1 ppm
Fe <= 30 ppm		

Code	Size	Packaging
406485	g 250	Plastic jar

For biochemistry

**L(+)**Glutamic acid - Technical Grade



## L(+)-Glutamic acid - Technical Grade

## RE-Pure

CARLO ERBA  
Quality since 1874

Assay (acidimetric) 98.5 + 100.5 %s.s.	Description White powder	Loss on drying <= 0.2 %
Other amino-acids Not detectables	Specific optical rotation at 20°C (C=10; +31.5 + +32.5 °	Transmittance at 430nm (C=10; HCl 2N) >= 98 %
Chloride <= 210 ppm	Sulphate <= 280 ppm	Ammonium <= 200 ppm
Heavy metals (Pb) <= 10 ppm	Sulphated ash <= 0.1 %	Fe <= 30 ppm

Code	Size	Packaging
304505	g 250	Plastic jar
304507	g 1000	Plastic jar

## L(+)-Glutamic acid hydrochloride

Acido L(+)-glutammico cloridrato - Acide L(+)-glutamique chlorhydrate - Acido L(+)-glutámico clorhidrato

## L(+)-Glutamic acid hydrochloride - Technical Grade

## RE-Pure

CARLO ERBA  
Quality since 1874

Assay (acidimetric) 99 + 101 % s s (c=12.5 in HCl 3N) +23.5 + +25.5 °	Assay (argentimetric) 99 + 101 % s s Loss on drying <=0.5 %	Description White crystalline powder Residue on ignition <=250 ppm
Sulphate <=0.1 %0		

Code	Size	Packaging
304522	g 1000	Plastic jar

For biochemistry

## Glutardialdehyde solution 50% in water

Aldeide glutarica soluzione 50% in acqua - Aldéhyde glutarique en solution à 50% dans l'eau - Glutaraldehído solución 50% en agua

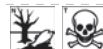
C<sub>6</sub>H<sub>8</sub>O<sub>2</sub>Atomic weight: 100,12  
CAS N: 111-30-8  
EEC N: 203-856-5

Transport classification

ONU n. 3265

Transport class: 8

Packaging group: II

R: 23/25-34-42/43-50  
S: 26-36/37/39-45-61

## Glutardialdehyde solution 50% in water - Analytical Grade

## RPE-For analysis

CARLO ERBA  
Quality since 1874

Assay 50.0 + 52.0 %	Description Clear colourless liquid	Density at 20° C 1.127 + 1.133
---------------------	-------------------------------------	--------------------------------

Code	Size	Packaging
415721	l 10	Kubidos

## Glutaric acid

Acido glutarico - Acide glutarique - Acido glutárico

HOOC(CH<sub>2</sub>)<sub>3</sub>COOHAtomic weight: 132,11  
CAS N: 110-94-1  
EEC N: 203-817-2

## Glutaric acid - Analytical Grade

## RPE-For analysis

CARLO ERBA  
Quality since 1874

Assay (acidimetric) >= 99 %	Description White crystals	Melting point 96.5 + 98.5 ° C
Chloride <= 10 ppm	Heavy metals (Pb) <= 20 ppm	Residue on ignition <= 100 ppm
Sulphate <= 50 ppm	Fe <= 10 ppm	

Code	Size	Packaging
406588	g 5	Glass jar

## Glycerol

Glicerina - Glycérine - Glicerina

CH<sub>2</sub>OHCHOHCH<sub>2</sub>OHAtomic weight: 92,095  
CAS N: 56-81-5  
EEC N: 200-289-5

## Glycerol - Analytical Grade

## PA-PUREX-for analysis-Reag. Ph.Eur.-Reag. USP

sds

Adequacy BA/FT Conform	Refractive index at 20°C 1.47 - 1.475	Water content (K.F.) <= 2 % m/m
Heavy metals (as Pb) <= 5 mg/Kg	Residue on ignition <= 100 mg/Kg	Density d25/25 >= 1.249
Clear, colourless solution Conform	Acidity / alkalinity Conform	Aldehydes Conform
Esters Conform	Halogenated compounds <= 30 mg/Kg	Sugars Conform
Sulfuric ashes <= 0.01 %	Volatile org. Impurities Conform	Sulphate (SO <sub>4</sub> <sup>-</sup> ) <= 20 mg/Kg
Related substances (GC) Conform	Glycerol content 99 - 101 %	Chloride (Cl <sup>-</sup> ) <= 10 mg/Kg

Code	Size	Packaging
P6170541	l 10	Plastic drum
P6170549	l 25	Plastic drum
P6170567	l 200	Plastic drum

## Glycerol - Analytical Grade

## RPE-ACS-for analysis



Assay (GLC) >= 99.5 %	Description Clear liquid	Colour (APHA) <= 10
Neutrality Conform ACS	Ready carbonizable substances Conform	pH 10% at 25° C 5 ÷ 7
Water (K.F.) <= 0.5 %	Organic chlorine (Cl) <= 30 ppm	Heavy metals (Pb) <= 2 ppm
Residue on ignition <= 50 ppm	Sulphate <= 10 ppm	Acroleina e glucosio Conform
Esteri di ac. grassi (ac. butir.) <= 500 ppm	Ca <= 10 ppm	Fe <= 0.5 ppm

Code	Size	Packaging
453751	ml 500	Glass bottle
453752	ml 1000	Glass bottle
453755	ml 2500	Glass bottle
453759	kg 35	Plastic drum
453758	kg 260	Metal drum

For further information on above products, see following product/application section(s)

Microscopy (p. 58)

## Glycerol - Special Grade

## RS-RSE For electronic use-ERBATRON



Assay (densimetric) >= 99.5 %	Description Clear liquid	Colour (APHA) <= 10
Water miscibility complete	Alcohol miscibility complete	Acroleine, sugars and ammonia compounds Conform
Sub reducing AgNO <sub>3</sub> amm. Conform	Ready carbonizable substances Conform	Density at 25°/25° C >= 1.2570
pH 10% at 25° C 5 ÷ 7	Organic chlorine (Cl) <= 10 ppm	Ammonium <= 5 ppm
Chloride <= 2 ppm	Fatty acid esters(glyceryl trybutyrate) <= 250 ppm	Heavy metals (Pb) <= 0.5 ppm
Oxalate <= 8 ppm	Peroxides (H <sub>2</sub> O <sub>2</sub> ) <= 5 ppm	Residue on ignition <= 50 ppm
Sulphate <= 5 ppm	Sugars (glucose) <= 500 ppm	As <= 0.4 ppm
Ca <= 10 ppm	Cr <= 0.1 ppm	Cu <= 0.1 ppm
Fe <= 0.5 ppm	Ni <= 0.1 ppm	

Code	Size	Packaging
453772	ml 2500	Glass bottle
453773	kg 260	Drum

## Glycerol 90% (28° Bé)

Glicerina 90% (28° Bé) - Glycérine 90% (28° Bé) - Glicerina 90% (28° Bé)

CH<sub>2</sub>OHCHOHCH<sub>2</sub>OH  
Atomic weight: 92,095  
CAS N: 56-81-5  
EEC N: 200-289-5

## Glycerol 90% (28° Bé) - Technical Grade

## RE-Pure



Assay 85.0 + 88.0 %	Description Clear colourless liquid	Density at 20° C 1.224 ÷ 1.232
Chlorinated compounds <= 5 ppm	Heavy metals (Pb) <= 1 ppm	Residue on ignition <= 100 ppm
Appearance of solution Conform	Acidity or alkalinity Conform	Refractive index at 20°C 1.4525 ÷ 1.4550
Aldehydes <= 5 ppm	Esters Conform	Sugar Conform
Chloride <= 2 ppm	Water (K.F.) 12 ÷ 15 %	

Code	Size	Packaging
346131	ml 1000	Glass bottle
346132	ml 2500	Glass bottle
346134	kg 35	Plastic drum

## Glycerol 30° Bé

Glicerina 30° Bé - Glycérine 30° Bé - Glicerina 30° Bé

CH<sub>2</sub>OHCHOHCH<sub>2</sub>OH  
Atomic weight: 92,095  
CAS N: 56-81-5  
EEC N: 200-289-5

## Glycerol 30° Bé - Pharmaceutical Grade

## RPH-According to pharmacopoeia: Ph.Eur.-USP-FU-Ph.Franc.-BP-DAB



Assay (acidimetric) 99.0 + 101.0 % s.s.	Description Clear colourless liquid	Appearance of solution Conform Ph.Eur.
Acidity or alkalinity Conform Ph.Eur.	Aldehydes <= 10 ppm	Diethyl.glyc.rel.subst. Conform Ph.Eur.
Sugar Conform Ph.Eur.	Esters Conform Ph.Eur.	Fatty acids and esters Conform USP-NF
Colour Conform USP-NF	Organic volatile impurities Conform USP-NF	Density at 25°C >= 1.249
Refractive index at 20° 1.470 ÷ 1.475	Water (K.F.) <= 2.0 %	Sulphated ash <= 100 ppm
Chloride <= 10 ppm	Halogenated compounds <= 30 ppm	Heavy metals (Pb) <= 5 ppm
Sulphate <= 20 ppm		

Code	Size	Packaging
346161	ml 1000	Glass bottle
346165	ml 2500	Glass bottle
346164	kg 35	Plastic drum
346167	kg 250	Metal drum

## Glycerol 30° Bé - Technical Grade

## Glycerol 30° Bé - Technical Grade

## RE-Pure



Description Clear colourless liquid	Density at 20° C 1.255 + 1.260	Refractive index at 20° 1.4710 + 1.4740
pH 10% at 25° C 5 ÷ 7	Chloride <=5 ppm	Heavy metals (Pb) <=2 ppm
Residue on ignition <=100 ppm	Sulphate <=20 ppm	As <=0.5 ppm
Fe <=1 ppm		

Code	Size	Packaging
346102	ml 1000	Glass bottle
346106	kg 35	Plastic drum

## Glycerol 30° Bé synthetic

Glicerina 30° Bé sintetica - Glycérine 30°Bé synthétique - Glicerina 30° Bé sintética

**CH<sub>2</sub>OHCHOHCH<sub>2</sub>OH**  
Atomic weight: 92,095  
CAS N: 56-81-5  
EEC N: 200-289-5

## Glycerol 30° Bé synthetic - Pharmaceutical Grade

## RPH-According to pharmacopoeia: Ph.Eur.-USP-FU-Ph.Franc.-BP-DAB



<b>Assay (acidimetric) 99.0 + 101.0 % s.s.</b>	Description Clear colourless liquid	Appearance of solution Conform Ph.Eur.
Acidity or alkalinity Conform Ph.Eur.	Aldehydes <= 10 ppm	Diethyl.glyc.rel.subst. Conform Ph.Eur.
Sugar Conform Ph.Eur.	Esters Conform Ph.Eur.	Fatty acids and esters Conform USP-NF
Colour Conform USP-NF	Organic volatile impurities Conform USP-NF	Density at 20° C >= 1.249
Refractive index at 20° 1.470 + 1.475	Water (K.F.) <= 2.0 %	Sulphated ash <= 100 ppm
Chloride <= 10 ppm	Halogenated compounds <= 30 ppm	Heavy metals (Pb) <= 5 ppm
Sulphate <= 20 ppm	Origin (BSE/TSE) Synthesis	Residual solvents (CPMP/ICH/283/95) Conform

Code	Size	Packaging
346174	kg 35	Plastic drum
346171	kg 260	Metal drum

## Glycine

Glicocolle - Glycocolle - Glicina

**CH<sub>2</sub>NH<sub>2</sub>COOH**  
Atomic weight: 75,068  
CAS N: 56-40-6  
EEC N: 200-272-2

## Glycine - Analytical Grade

## RPE-For analysis



<b>Assay (non-aqueous medium) &gt;= 98.5 % (s.s.)</b>	Description White crystalline powder	Hydrolyzable matter Conform
Organic volatile impurities Conform	Loss on drying <= 0.2 %	Ammonium <= 200 ppm
As <= 1 ppm	Chloride <= 40 ppm	Sulphate <= 50 ppm
Heavy metals (Pb) <= 10 ppm	Fe <= 10 ppm	Sulphated ash <= 0.1 %

Code	Size	Packaging
453804	g 100	Glass jar
453807	g 1000	Plastic jar

For biochemistry

For further information on above products, see following product/application section(s)  
Buffers (p. 30)

## Glycine - Pharmaceutical Grade

## RPH-According to pharmacopoeia: Ph.Eur.-USP-Ph.Franc.



<b>Assay (non-aqueous medium) 98.5 + 101.0 % s.s.</b>	Description White crystalline powder	Appearance of solution Conform Ph.Eur.
Hydrolyzable matter Conform USP-NF	Organic volatile impurities Conform USP-NF	pH solution 5% 5.9 + 6.4
Loss on drying <=0.2 %	Sulphated ash <=0.1 %	Chloride <=70 ppm
Heavy metals (Pb) <=10 ppm	Sulphate <=65 ppm	Sostanze ninidrina-positive Conform Ph.Eur.
Origin (BSE/TSE) Synthesis		

Code	Size	Packaging
346207	g 1000	Plastic jar
346205	g 5000	Bottle
346208	kg 25	Carton drum

## Glycine cresol red

Rosso glicina cresolo - Rouge de glycine crésol - Rojo de glicina cresol

**C<sub>27</sub>H<sub>27</sub>O<sub>6</sub>N<sub>3</sub>Na**  
Atomic weight: 578,78  
CAS N: 4079-10-1  
EEC N: 223-801-9

Transport classification  
ONU n. 3143  
Transport class: 6.1  
Packaging group: III



R: 20/21/22

## Glycine cresol red - Analytical Grade

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
M  
N  
O  
P  
Q  
R  
S  
T  
U  
V  
W  
X  
Y  
Z

## Glycine cresol red - Analytical Grade

## RPE-For analysis



Description Polvere marrone rossicc Sensitivity as metallochromic indicator Conform

Code	Size	Packaging
476861	g 1	Glass bottle

Complexometry indicator

For further information on above products, see following product/application section(s)  
Indicators (p. 50)

## Glycine thymol blue

Blu glicina timolo - Bleu de glycine thymol - Azul glicina timol

**C<sub>25</sub>H<sub>35</sub>NaO<sub>9</sub>SNa**  
Atomic weight: 662,73  
CAS N: 3810-63-7  
EEC N: 223-285-5

Transport classification  
ONU n. 3143  
Transport class: 6.1  
Packaging group: III



R: 20/21/22

## Glycine thymol blue - Analytical Grade

## RPE-For analysis



Description Polvere e granel marrone

Code	Size	Packaging
428851	g 1	Glass bottle

Complexometry indicator

For further information on above products, see following product/application section(s)  
Indicators (p. 50)

## Glycolic acid

Acido glicolico - Acide glycolique - Acido glicólico

**CH<sub>2</sub>OHCOOH**  
Atomic weight: 76,052  
CAS N: 79-14-1  
EEC N: 201-180-5

R: 36/37/38  
S: 7-13

## Glycolic acid - Analytical Grade

## RPE-For analysis

Assay (acidimetric) >= 98.5 % s.s. Description White crystals Melting point 72 + 80 °C  
Water <= 1 %

Code	Size	Packaging
406434	g 100	Glass jar
406437	g 1000	Plastic jar
406433	kg 25	Fibre drum

## Glyoxal-bis-(2-hydroxyanil)

Gliossale-bis(2-idrossianile) - Glyoxal-bis-(2-hydroxyanile) - Glioxal-bis-(2-hidroxianilo)

**C<sub>14</sub>H<sub>10</sub>N<sub>2</sub>O<sub>2</sub>**  
Atomic weight: 240,26  
CAS N: 1149-16-2  
EEC N: 214-560-0

## Glyoxal-bis-(2-hydroxyanil) - Analytical Grade

## RPE-For analysis

Assay (HPLC) >= 97 % Description Beige powder Loss on drying <= 0.5 %  
Sulphated ash <= 0.1 %

Code	Size	Packaging
454131	g 10	Glass jar

For the spectrophometric analysis of Ca.

For further information on above products, see following product/application section(s)  
Indicators (p. 50)

## Gold wire

Oro filo - Or en fils - Oro hilo

**Au**  
Atomic weight: 196,96  
CAS N: 7440-57-5  
EEC N: 231-165-9

## Gold wire - Analytical Grade

## RPE-For analysis



Assay (gravimetric) &gt;=99.9 % Description Wire

Code	Size	Packaging
466958	g 5	Carton box

## Gold sheet

Oro lamina - Or en lames - Oro hojas

Au

Atomic weight: 196,96

CAS N: 7440-57-5

EEC N: 231-165-9

## Gold sheet - Analytical Grade

## RPE-For analysis



Assay (gravimetric) &gt;=99.9 %

Description Sheet

Code	Size	Packaging
466978	g 5	Carton box

## Gold

Oro - Or - Oro

## Transport classification

ONU n. 3264

Transport class: 8

Packaging group: III



R: 36/38-43

S: 24-26

## Gold - Special Grade

## RS-NORMEX-concentrated solution for AAS



Description Yellow clear liquid

Titration factor 0.995 + 1.005

Code	Size	Packaging	Notes
466961	Ampoule	Plastic vial	conc. 1.000 ppm

Concentrated volumetric solution to prepare 1 l of solution 1 mg/ml

For further information on above products, see following product/application section(s)

Trace metal analysis (p. 86)

## RS-Standard solution for AAS



Description Yellow clear liquid

Titration factor 0.998 + 1.002

Code	Size	Packaging	Notes
497585	ml 100	Glass bottle	conc. 1.000 ppm
497581	ml 500	Plastic bottle	conc. 1.000 ppm

Ready-to-use solution: concentration 1 mg/ml

## RS-Standard solution for ICP



Code	Size	Packaging	Notes
503431	ml 100	Plastic bottle	Matrice: Hydrochloric acid, conc. 1.000 ppm
503435	ml 100	Plastic bottle	Matrice: Hydrochloric acid, conc. 10.000 ppm
503433	ml 500	Plastic bottle	Matrice: Hydrochloric acid, conc. 1.000 ppm
503437	ml 500	Plastic bottle	Matrice: Hydrochloric acid, conc. 10.000 ppm

Provided with real batch certificate. Verified against NIST Standard Reference

For further information on above products, see following product/application section(s)

Trace metal analysis (p. 86)

## RS-Standard solution for ICP-MS



Code	Size	Packaging	Notes
505316	ml 50	Plastic bottle	Matrice: Hydrochloric acid, conc. 10 ppm
505317	ml 100	Plastic bottle	Matrice: Hydrochloric acid, conc. 10 ppm
505318	ml 100	Plastic bottle	Matrice: Hydrochloric acid, conc. 100 ppm

For further information on above products, see following product/application section(s)

Trace metal analysis (p. 86)

## Gowers' reagent

Gowers reattivo - Réactif de Gowers - Gowers reactivo

## Transport classification

ONU n. 3265

Transport class: 8

Packaging group: III



R: 36/38

S: 26

## Gowers' reagent - Special Grade

## RS-For microscopy



Description Clear colourless liquid

Code	Size	Packaging
446882	ml 1000	Glass bottle

Stain for Haematology . For the computation of erythrocytes

For further information on above products, see following product/application section(s)

Microscopy (p. 58)

## Gram complete kit

Gram kit completo - Kit de Gram complet - Gram kit cumplido

Transport classification  
ONU n. 1993  
Transport class: 3  
Packaging group: II



R: 11-20/21/22-68/20/21/22-52/53  
S: 7-16

### Gram complete kit - Special Grade

#### RS-For microscopy



##### Description

Code	Size	Packaging
454441	4 x ml 250	Plastic bottle

Stain for Bacteriology. It contains ethanol. 4 bottles of 250 ml. 1x 477241 Safranin T, 1x 458751 Lugol, 1x 444131 Differentiator, 1x 491561 Crystal violet oxalate.

For further information on above products, see following product/application section(s)

Microscopy (p. 58)

## Graphite

Grafite - Graphite - Grafito

C  
Atomic weight: 12,000  
CAS N: 7782-42-5  
EEC N: 231-955-3

### Graphite - Technical Grade

#### RE-Pure



Description Black-grey powder

Code	Size	Packaging
454407	g 1000	Bag

## Griess' reagent

Griess reattivo soluzione in acido acetico - Réactif de Griess - Griess reattivo solución en acido acético

Transport classification  
ONU n. 3265  
Transport class: 8  
Packaging group: III



R: 34  
S: 26-28-45

### Griess' reagent - Special Grade

#### RS-For nitrite detection



Description Clear pinkish liquid

Code	Size	Packaging
454481	ml 1000	Glass bottle

## Griess' reagent A

Griess reagente A - Griess Réactif A - Griess reattivo A

CAS N: 121-57-3

Transport classification  
ONU n. 3265  
Transport class: 8, 40°B



R: 34  
S: 23-26-28

### Griess' reagent A - Special Grade

#### RS-For nitrite detection



Code	Size	Packaging
454452	ml 500	Glass bottle

## Griess' reagent B

Griess reagente B - Griess Réactif B - Griess reattivo B

CAS N: 134-32-7

Transport classification  
ONU n. 3266  
Transport class: 8, 40°B



R: 35  
S: 23-26-29

### Griess' reagent B - Special Grade

#### RS-For nitrite detection



Code	Size	Packaging
454462	ml 500	Glass bottle

## Gum arabic

Gomma arabica polvere - Gomme arabique en poudre - Goma ar biga polvo

CAS N: 9000-01-5  
EEC N: 232-519-5

## Gum arabic - Pharmaceutical Grade

## RPH-According to pharmacopoeia: Ph.Eur.-FU-Ph.Franc.-BP-DAB



Description White-yellowish granules	Agar and tragacanth Conform Ph.Eur.	Agar and sterculia Conform Ph.Eur.
Starch and Dextrins Conform Ph.Eur.	Saccharose and fructose Conform Ph.Eur.	Tannin Conform Ph.Eur.
Loss on drying <= 10.0 %	Sulphated ash <= 4.0 %	Total aerobic bacteria <= 10000 n/g
Escherichia coli Absent n/g		

Code	Size	Packaging
347107	g 1000	Bottle
347109	g 5000	Plastic jar
347104	kg 50	Fibre drum

## Haemalum solution

Emallume reattivo soluzione - Hemalun en solution - Emalume reactivo solución

R: 20/21/22-68/20/21/22  
S: 9-36-45

## Haemalum solution - Special Grade

## RS-For microscopy



Description Clear purple liquid Assorbanza a 560 nm &gt;= 0.80

Code	Size	Packaging
446372	6 x ml 1000	Glass bottle
434352	6 x ml 250	Glass bottle

Stain for Cytology According to Carazzi.  
Stain for Cytology. Mixture ethanol-water (10:90) According to MayerFor further information on above products, see following product/application section(s)  
Microscopy (p. 58)

## Hafnium

Afnio - Hafnium - Hafnio

Hf

Transport classification  
ONU n. 3289R: R23/24/25-34  
S: S36/37-26

## Hafnium - Special Grade

## RS-Standard solution for ICP



Code	Size	Packaging	Notes
504221	ml 100	Plastic bottle	Matrice: Nitric acid and hydrofluoric acid, conc. 1.000 ppm
504225	ml 100	Plastic bottle	Matrice: Nitric acid and hydrofluoric acid, conc. 10.000 ppm
504223	ml 500	Plastic bottle	Matrice: Nitric acid and hydrofluoric acid, conc. 1.000 ppm
504227	ml 500	Plastic bottle	Matrice: Nitric acid and hydrofluoric acid, conc. 10.000 ppm

Provided with real batch certificate. Verified against NIST Standard Reference

For further information on above products, see following product/application section(s)  
Trace metal analysis (p. 86)

## RS-Standard solution for ICP-MS



Code	Size	Packaging	Notes
505641	ml 50	Plastic bottle	Matrice: Nitric acid and hydrofluoric acid, conc. 10 ppm
505642	ml 100	Plastic bottle	Matrice: Nitric acid and hydrofluoric acid, conc. 10 ppm
505645	ml 100	Plastic bottle	Matrice: Nitric acid and hydrofluoric acid, conc. 100 ppm

For further information on above products, see following product/application section(s)  
Trace metal analysis (p. 86)

## Hanus's reagent

Hanus reattivo - Réactif de Hanus - Hanus reattivo

Transport classification  
ONU n. 2920  
Transport class: 8  
Secondary risk: 3  
Packaging group: IIR: 10-35  
S: 26-36/37/39-45

## Hanus's reagent - Special Grade

## RS-For detection of iodine index



Description Brown red liquid Iodine value &gt;= 90

Code	Size	Packaging
454872	ml 1000	Bottle

## Hayem's reagent

Hayem reattivo - Réactif de Hayem - Hayem reactivo



R: 20/21/22  
S: 13-26

### Hayem's reagent - Special Grade

#### RS-For microscopy



Description Clear colourless liquid

Code	Size	Packaging
454881	ml 500	Glass bottle

Stain for Haematology . For the computation of erythrocytes

## Hematoxylin

Ematossilina - Hématoxyline - Hematoxilina

**C<sub>16</sub>H<sub>14</sub>O<sub>6</sub>**

Atomic weight: 302,29

CAS N: 517-28-2

EEC N: 208-237-3

### Hematoxylin - Special Grade

#### RS-For microscopy-C.I. 75290



Assay >= 95 %

Description Yellowish powder

Loss on drying <= 6 %

Alcohol solubility Conform

Melting point ~ 140 °C

Code	Size	Packaging
446472	g 25	Glass jar
446473	g 100	Glass jar

Stain for Cytology.

For further information on above products, see following product/application section(s)

Indicators (p. 50)

Microscopy (p. 58)

## Hematoxyline solution

Ematossilina soluzione - Hématoxyline en solution - Hematoxilina solución

**C<sub>16</sub>H<sub>14</sub>O<sub>6</sub>**

CAS N: 517-28-2

EEC N: 208-237-3



R: 20  
S: 25-45

### Hematoxyline solution - Special Grade

#### RS-For microscopy



Description Red-violet liquid

Code	Size	Packaging
460513	ml 1000	Glass bottle
460512	6 x ml 100	Glass bottle

Stain for Cytology. It contains chloral hydrate According to Mayer.

For further information on above products, see following product/application section(s)

Microscopy (p. 58)

## Heptafluorobutyric acid

Acido eptafluorobutirrico - Acide heptafluorobutyrique - Acido heptafluorobutirrico

**CF<sub>3</sub>(CF<sub>2</sub>)<sub>3</sub>COOH**

Atomic weight: 214,04

CAS N: 375-22-4

EEC N: 206-786-3

Transport classification

ONU n. 3265

Transport class: 8

Packaging group: III



R: 22-34-37  
S: 3/7-9-26-36/37-45

### Heptafluorobutyric acid - Analytical Grade

#### RPE-For analysis



Assay (acidimetric) >=99 %

Description Clear colourless liquid

Density at 20° C 1.64 ± 1.65

Boiling point 120 ± 121 ° C

Code	Size	Packaging
405451	ml 10	Glass bottle

Derivatizer for chromatography

For further information on above products, see following product/application section(s)

Chromatography (p. 34)

## Heptafluorobutyrylpivaloylmethane

Eptafluorobutirilpivaloilmetano - Heptafluorobutyrylpivaloylméthane - Heptafluorobutinilpivaloilmetano

**C<sub>10</sub>H<sub>11</sub>F<sub>7</sub>O<sub>2</sub>**

Atomic weight: 296,180

CAS N: 17587-22-3

EEC N: 241-556-6



## Heptafluorobutyrylpivaloylmethane - Analytical Grade



## RPE-For analysis

Assay (GLC) 98 + 100 %	Description	Density at 20° C >=1.29
<b>Code</b>	<b>Size</b>	<b>Packaging</b>
446651	ml 10	Glass bottle

Derivatizer for chromatography

For further information on above products, see following product/application section(s)  
Chromatography (p. 34)

## n-Heptane

n-Eptano - n-Heptane 99% - n-Heptano

**CH<sub>2</sub>(CH<sub>2</sub>)<sub>5</sub>CH<sub>3</sub>**  
Atomic weight: 100,21  
CAS N: 142-82-5  
EEC N: 205-563-8

**Transport classification**  
ONU n. 1206  
Transport class: 3  
Packaging group: II



R: 11-38-50/53-65-67  
S: 9-16-29-33-60-61-62

## n-Heptane - Analytical Grade



## PA-PUREX-for analysis

Assay (GC) >= 99 %	Refractive index at 20°C 1.386 - 1.39	Water content (K.F.) <= 100 mg/Kg
Non volatile residue <= 10 mg/Kg	Colour <= 10 Hazen	Aromatic compounds <= 50 mg/Kg
Free acid (as CH <sub>3</sub> COOH) <= 10 mg/Kg	Identification (IR) Conform	Clear, colourless liq. appearance Conform
Density d20/4 0.681 - 0.687	Total sulphur (S) <= 10 ppm	

Code	Size	Packaging
P0500516	ml 1000	Glass bottle
P0500529	ml 5000	Plastic drum
P0500540	l 10	Metal tank
P0500568	l 200	Metal drum

## RPE-For analysis



Assay (GLC) >=99.0 %	Description Clear liquid	Colour (APHA) <=10
Chloroform miscibility complete	Diethyl ether miscib. complete	Ready carbonizable substances Conform
Density at 20° C 0.681 + 0.687	Refractive index at 20° 1.3836 + 1.3916	Boiling point 97.4 + 99.4 ° C
Water (K.F.) <=100 ppm	Residue on evaporation <=30 ppm	Subst. reducing KMnO <sub>4</sub> <=20 ppm(5m)
Tiophene <=10 ppm	Total sulphur <=20 ppm	

Code	Size	Packaging
446787	ml 1000	Glass bottle
446785	ml 2500	Glass bottle
446781	ml 5000	Metallic can
446782	kg 18	Metallic can
446789	kg 135	Metal drum

## n-Heptane - Special Grade

## RS-Anhydrous-for analysis



Assay (GC) >= 99 %	Refractive index at 20°C 1.386 - 1.39	Water content (K.F.) <= 50 mg/Kg
Non volatile residue <= 10 mg/Kg	Colour <= 10 Hazen	Aromatic compounds <= 50 mg/Kg
Free acid (as CH <sub>3</sub> COOH) <= 10 mg/Kg	Identification (IR) Conform	Clear, colourless liq. appearance Conform
Density d20/4 0.681 - 0.687	Total sulphur (S) <= 10 ppm	

Code	Size	Packaging
P0501021	ml 2500	Glass bottle

For further information on above products, see following product/application section(s)  
Anhydrous solvents (p. 27)

## RS-For HPLC-Isocratic Grade



Assay (GC) >= 99 %	Refractive index at 20°C 1.386 - 1.39	Water content (K.F.) <= 100 mg/Kg
Colour <= 10 Hazen	UV transmittance at 210 nm >= 50 %	UV transmittance at 220 nm >= 80 %
UV transmittance at 250 nm >= 98 %	Aromatic compounds <= 5 mg/Kg	Non volatile residue <= 5 mg/Kg
Free acid (as CH <sub>3</sub> COOH) <= 10 mg/Kg		

Code	Size	Packaging
P0503716	ml 1000	Glass bottle
P0503721	ml 2500	Glass bottle

For further information on above products, see following product/application section(s)  
Chromatography (p. 34)

## RS-For HPLC-Isocratic Grade



Assay (GLC) >=99.2 %	Description Clear colourless liquid	Density at 20° C 0.681 + 0.687
Refractive index at 20° 1.3836 + 1.3916	Boiling point 97.9 + 98.9 ° C	Water (K.F.) <=100 ppm
Residue on evaporation <=5 ppm	Acidity or alkalinity <=0.00015 meq/g	<b>U.V. Transmittance -</b>
at 200 nm >=15 %	at 210 nm >=55 %	at 220 nm >=80 %
at 230 nm >=92 %	at 240 nm >=96 %	at 260 nm >=99 %

Code	Size	Packaging
412592	ml 2500	Glass bottle

For further information on above products, see following product/application section(s)  
Chromatography (p. 34)

## n-Heptane - Special Grade

## RS-For optical spectroscopy



<b>Assay (GLC) &gt;=99.8 %</b>	Description Clear liquid	Colour (APHA) <=10
Density at 20° C 0.681 ± 0.687	Refractive index at 20° 1.3836 ± 1.3916	Boiling point 97.9 ± 98.9 ° C
Water (K.F.) <=100 ppm	Residue on evaporation <=5 ppm	Acidity <=0.0005 meq/g
Alcalinity <=0.0002 meq/g	<b>Fluorescence -</b>	at 254 nm <=2 ppb
at 365 nm <=2 ppb	<b>U.V. Transmittance -</b>	at 200 nm >=20 %
at 210 nm >=50 %	at 220 nm >=80 %	at 230 nm >=90 %
at 245 nm >=98 %		

Code	Size	Packaging
446824	ml 1000	Glass bottle

Spectrophotometric analysis (1 cm - ref. Water)

For further information on above products, see following product/application section(s)  
Solvents for spectroscopy (p. 68)

## RS-For residual pesticides analysis



<b>Assay (GLC) &gt;=95.5 %</b>	Description Clear colourless liquid	Density at 20° C 0.679 ± 0.689
Water (K.F.) <=200 ppm	Residue on evaporation <=5 ppm	GC-ECD (Lindano) <=5 ng/l
GC_NPD (Parathion) <=10 ng/l		

Code	Size	Packaging
446801	ml 1000	Glass bottle

GC-ECD: &lt; 5 pg/ml GC-NPD: &lt; 10 pg/ml.

For further information on above products, see following product/application section(s)  
Special products for environmental analysis (p. 81)

## RS-PESTIPUR-for pesticide analysis



<b>Assay (GC) &gt;= 99 %</b>	Refractive index at 20°C 1.386 - 1.39	Water content (K.F.) <= 50 mg/Kg
Colour <= 10 Hazen	Free acid (as CH <sub>3</sub> COOH) <= 10 mg/Kg	Non volatile residue <= 5 mg/Kg
Total sulphur (S) <= 10 ppm	GC-ECD.Individual peak (Lindane) <= 3 ng/l	<b>Retention time trichlorobenzene to mirex -</b>

Code	Size	Packaging
P0502216	ml 1000	Glass bottle
P0502221	ml 2500	Glass bottle

## RS-PLUS-for residual pesticide analysis



<b>Assay (GLC) &gt;= 99 %</b>	Description Clear liquid	Colour <= 10 hazen
Water <= 0.05 %	Free acids (HCOOH) <= 10 ppm	Not volatile residue <= 5 ppm
GC-ECD (Lindano) <= 3 ng/l		

Code	Size	Packaging
446951	ml 1000	Glass bottle
446952	ml 2500	Glass bottle

For further information on above products, see following product/application section(s)  
Special products for environmental analysis (p. 81)

## RS-SPECTROSOL-for optical spectroscopy



<b>Assay (GC) &gt;= 99 %</b>	Refractive index at 20°C 1.386 - 1.39	Water content (K.F.) <= 100 mg/Kg
Colour <= 10 Hazen	UV transmittance at 210 nm >= 50 %	UV transmittance at 220 nm >= 80 %
UV transmittance at 230 nm >= 92 %	UV transmittance at 250 nm >= 98 %	Aromatic compounds <= 5 mg/Kg
Free acid (as CH <sub>3</sub> COOH) <= 10 mg/Kg	Non volatile residue <= 5 mg/Kg	

Code	Size	Packaging
P0502716	ml 1000	Glass bottle
P0502721	ml 2500	Glass bottle

For further information on above products, see following product/application section(s)  
Solvents for spectroscopy (p. 68)

## n-Heptane - Technical Grade

## PS-Pure-for synthesis



<b>Assay (GC) &gt;= 99 %</b>	Refractive index at 20°C 1.386 - 1.39	Water content (K.F.) <= 150 mg/Kg
Non volatile residue <= 20 mg/Kg	Colour <= 10 Hazen	Aromatic compounds <= 100 mg/Kg
Free acid (as CH <sub>3</sub> COOH) <= 10 mg/Kg	Identification (IR) Conform	Clear, colourless liq. appearance Conform
Density d <sub>20/4</sub> 0.681 - 0.687	Total sulphur (S) <= 10 ppm	

Code	Size	Packaging
P0500229	ml 5000	Plastic drum
P0500240	l 10	Metal tank
P0500248	l 25	Metal drum
P0500268	l 200	Metal drum

## n-Heptane - Technical Grade

## RE-Pure



Assay (GLC) >= 99 %	Description Clear colourless liquid	Density at 20° C 0.679 ± 0.689
Refractive index at 20° 1.3826 ± 1.3926	Boiling point 97.4 ± 99.4 ° C	Water (K.F.) <= 200 ppm
Residue on evaporation <= 30 ppm	Total sulphur <= 20 ppm	

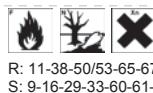
Code	Size	Packaging
339381	ml 1000	Glass bottle
339385	ml 2500	Glass bottle
339382	ml 5000	Metallic can
528224	ml 5000	Plastic tank
339386	kg 18	Metal drum
528225	l 25	Container

## n-Heptane 95%

n-Eptano 95% - n-Heptane - n-Heptano 95%

**CH<sub>2</sub>(CH<sub>2</sub>)<sub>5</sub>CH<sub>3</sub>**  
 Atomic weight: 100,21  
 CAS N: 142-82-5  
 EEC N: 205-563-8

**Transport classification**  
 ONU n. 1206  
 Transport class: 3  
 Packaging group: II



## n-Heptane 95% - Technical Grade

## PS-Pure-for synthesis



Assay (GC) >= 95 %	Refractive index at 20°C 1.386 - 1.39	Water content (K.F.) <= 100 mg/Kg
Non volatile residue <= 30 mg/Kg	Colour <= 10 Hazen	Aromatic compounds <= 100 mg/Kg
Identification (IR) Conform	Clear, colourless liq. appearance Conform	

Code	Size	Packaging
P050B0229	ml 5000	Plastic drum
P050B0268	l 200	Metal drum

## RE-Pure



Assay (GLC) >= 95.0 %	Description Clear colourless liquid	Colour <= 10 APHA
Residue on evaporation <= 10 ppm	Water (K.F.) <= 200 ppm	

Code	Size	Packaging
508215	ml 5000	Metal tank
508216	l 25	Metal drum
508217	l 200	Metal drum

## Heptane mixture of isomers

Eptano miscela di isomeri - Heptane mélange d'isomères - Heptano mezcla de isómero

**CH<sub>2</sub>(CH<sub>2</sub>)<sub>5</sub>CH<sub>3</sub>**  
 Atomic weight: 100,21  
 CAS N: 142-82-5  
 EEC N: 205-563-8

**Transport classification**  
 ONU n. 1206  
 Transport class: 3  
 Packaging group: II



## Heptane mixture of isomers - Analytical Grade

## PA-PUREX-for analysis



Refractive index at 20°C 1.387 - 1.407	Water content (K.F.) <= 100 mg/Kg	Non volatile residue <= 10 mg/Kg
Colour <= 10 Hazen	Aromatic compounds <= 100 mg/Kg	

Code	Size	Packaging
P050000529	ml 5000	Plastic drum
P050000568	l 200	Metal drum

## Heptane mixture of isomers - Special Grade

## RS-PESTIPUR-for pesticide analysis



Refractive index at 20°C 1.387 - 1.407	Water content (K.F.) <= 50 mg/Kg	Colour <= 10 Hazen
Aromatic compounds <= 100 mg/Kg	Non volatile residue <= 5 mg/Kg	GC-ECD. Individual peak (Lindane) <= 3 ng/l

Retention time trichlorobenzene to mirex -

Code	Size	Packaging
P050002221	ml 2500	Glass bottle

## RS-PLUS-for residual pesticide analysis



Code	Size	Packaging
446842	ml 2500	Glass bottle

For further information on above products, see following product/application section(s)  
 Special products for environmental analysis (p. 81)

## Heptane mixture of isomers - Technical Grade

## Heptane mixture of isomers - Technical Grade

## PS-Pure-for synthesis

sds

Assay (GC) >= 99 %	Refractive index at 20°C 1.386 - 1.39	Water content (K.F.) <= 150 mg/Kg
Non volatile residue <= 20 mg/Kg	Colour <= 10 Hazen	Aromatic compounds <= 100 mg/Kg
Free acid (as CH <sub>3</sub> COOH) <= 10 mg/Kg	Identification (IR) Conform	Clear, colourless liq. appearance Conform
Density d <sub>20</sub> /4 0.681 - 0.687	Total sulphur (S) <= 10 ppm	

Code	Size	Packaging
P0500208	ml 1000	Aluminium can
P0500029	ml 5000	Plastic drum
P0500040	l 10	Metal tank
P0500048	l 25	Metal drum
P0500068	l 200	Metal drum

## RE-Pure

CARLO ERBA  
Quality since 1824

Description Clear liquid	Color <= 10 APHA	Density at 20°C 0.710 + 0.720
Refractive index at 20°C 1.3920 + 1.4020	Boiling point 90 + 100 °C	Water (K.F.) <= 300 ppm
Residue on evaporation <= 100 ppm	Aromatics (Thiophene) <= 500 ppm	

Code	Size	Packaging
528245	ml 5000	Metal tank
528246	l 25	Metal drum
528247	l 200	Metal drum

## 1-Heptanesulphonic acid sodium salt

Acido 1-eptansolfonico sale sodico - Acide 1-heptanesulfonique sel sodique - Acido 1-heptano sulfónico sal sódica

CH<sub>7</sub>(CH<sub>2</sub>)<sub>6</sub>SO<sub>3</sub>Na.H<sub>2</sub>O  
 Atomic weight: 220,26  
 CAS N: 22767-50-6  
 EEC N: 245-210-5

## 1-Heptanesulphonic acid sodium salt - Analytical Grade

## RPE-For analysis

CARLO ERBA  
Quality since 1824

Assay >=95 %	Description White powder
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Code	Size	Packaging
405562	g 5	Glass jar
405564	g 25	Glass jar

## 1-Heptanesulphonic acid sodium salt - Special Grade

## RS-For ion pair chromatography

CARLO ERBA  
Quality since 1824

Assay >=98 %	Description White crystalline powder	Water-insoluble matter <=0.1 %
pH 5.5+7.5	Loss on drying <=2.0 %	Chloride <=0.05 %
Phosphate <=10 ppm	Ammonium <=0.05 %	Al <=5 ppm
Ca <=10 ppm	Fe <=5 ppm	Cu <=5 ppm
K <=50 ppm	Mg <=5 ppm	Pb <=10 ppm
Zn <=5 ppm	Transmittance -	at 200 nm >=70
at 220 nm >=90	at 250 nm >=98	

Code	Size	Packaging
405851	g 25	Glass jar

## Hexachloroethane

Etano esacloro - Hexachloroéthane - Etano hexacloro

CCl<sub>2</sub>CCl<sub>2</sub>  
 Atomic weight: 236,76  
 CAS N: 67-72-1  
 EEC N: 200-666-4

Transport classification  
 ONU n. 2811  
 Transport class: 6.1  
 Packaging group: III



R: 20/21/22  
 S: 22-24/25

## Hexachloroethane - Technical Grade

## RE-Pure

CARLO ERBA  
Quality since 1824

Assay (GLC) 98 + 100 %	Description White crystalline powder	Melting point 185.0 + 189.0 ° C
Alcohol-insolub. matter <=0.35 %	Residue on ignition <=0.3 %	

Code	Size	Packaging
340207	g 1000	Plastic jar

## Hexachloroplatinic acid

Acido esacloroplatinico esaidrato - Acide hexachloroplatinique hexahydraté - Acido hexacloroplatinico hexaidrato

H<sub>2</sub>PtCl<sub>6</sub>.H<sub>2</sub>O  
 Atomic weight: 517,92  
 CAS N: 18497-13-7  
 EEC N: 241-010-7

Transport classification  
 ONU n. 2507  
 Transport class: 8  
 Packaging group: III



R: 42/43-36/38  
 S: 24/25

## Hexachloroplatinic acid - Analytical Grade

## Hexachloroplatinic acid - Analytical Grade

CARLO ERBA  
Quality since 1928

## RPE-For analysis

Assay 38 + 40 % Pt Description Red-orange mass Tracce tot. di metalli &lt;= 0.1 %

Code	Size	Packaging
470017	g 1	Glass vial

For further information on above products, see following product/application section(s)  
Microscopy (p. 58)

## Hexadecane

Esadecano - Hexadécane - Hexadecano

**C<sub>16</sub>H<sub>34</sub>**  
Atomic weight: 226,440  
CAS N: 544-76-3  
EEC N: 208-878-9



R: 65  
S: 23-24-26-62

## Hexadecane - Technical Grade

## PS-Pure-for synthesis

sds

Assay (GC) &gt;= 99 % Refractive index at 20°C 1.433 - 1.437 Colour &lt;= 10 Hazen

Code	Size	Packaging
P0853016	ml 1000	Glass bottle

## Hexafluoro-2-propanol

Esafuoro-2-propanolo - Hexafluoro-2-Propanol - Hexafluoro-2-Propanol

**C<sub>3</sub>H<sub>2</sub>F<sub>6</sub>O**  
Atomic weight: 168,040  
CAS N: 920-66-1  
EEC N: 213-059-4

Transport classification  
ONU n. 3265  
Transport class: 8  
Packaging group: II



## Hexafluoro-2-propanol - Analytical Grade

## PA-PUREX-for analysis

sds

Assay (GC) &gt;= 99 % Identification (IR) Conform Colour &lt;= 10 Hazen

Code	Size	Packaging
P6080503	ml 100	Glass bottle
P6080518	ml 500	Glass bottle

## Hexafluorobenzene

Esafuorobenzene - Hexafluorobenzène - Hexafluorobenceno

**C<sub>6</sub>F<sub>6</sub>**  
Atomic weight: 186,060  
CAS N: 392-56-3  
EEC N: 206-876-2

Transport classification  
ONU n. 1993  
Transport class: 3  
Packaging group: II

## Hexafluorobenzene - Analytical Grade

## PA-PUREX-for analysis

sds

Assay (GC) &gt;= 99 % Refractive index at 20°C 1.375 - 1.379 Colour &lt;= 10 Hazen

Code	Size	Packaging
P6190575	ml 10	Glass bottle

## Hexamethyldisilane

Esametildisilano - Hexaméthylsilane - Hexametildisilano

**(CH<sub>3</sub>)<sub>2</sub>SiSi(CH<sub>3</sub>)<sub>2</sub>**  
Atomic weight: 146,34  
CAS N: 1450-14-2  
EEC N: 215-911-0

Transport classification  
ONU n. 1993  
Transport class: 3  
Packaging group: II



R: 11  
S: 7/8-16-33

## Hexamethyldisilane - Analytical Grade

## RPE-For analysis

CARLO ERBA  
Quality since 1928Description Clear colourless liquid Density at 20° C 0.723 + 0.729 Refractive index at 20° 1.4208 + 1.4248  
Boiling point 111 ± 113 ° C Melting point 11 ± 12 ° C

Code	Size	Packaging
447024	ml 25	Glass bottle

Derivatizer for chromatography

For further information on above products, see following product/application section(s)  
Chromatography (p. 34)

## Hexamethyldisilazane

Esametildisilazano - Hexaméthylsilazane - Hexametildisilazano

**(CH<sub>3</sub>)<sub>6</sub>SiNHSi(CH<sub>3</sub>)<sub>6</sub>**  
 Atomic weight: 161,40  
 CAS N: 999-97-3  
 EEC N: 213-668-5

**Transport classification**  
 ONU n. 1993  
 Transport class: 3  
 Packaging group: II

   
 R: 11-18-36/37/38  
 S: 7/8-36/39

## Hexamethyldisilazane - Analytical Grade

## RPE-For analysis



Assay (GLC) >= 97.5 % Description Clear liquid Colour <= 10 APHA  
 Refractive index at 20°C 1.4060 ± 1.4090

Code	Size	Packaging
446733	ml 1	Glass vial
446731	ml 25	Glass bottle

Derivatizer for chromatography

For further information on above products, see following product/application section(s)  
 Chromatography (p. 34)

## Hexamethyldisiloxane

Esametildisilossano - Hexaméthylsiloxane - Hexametildisiloxano

**(CH<sub>3</sub>)<sub>6</sub>SiNHSi(CH<sub>3</sub>)<sub>6</sub>**  
 Atomic weight: 162,38  
 CAS N: 107-46-0  
 EEC N: 203-492-7

**Transport classification**  
 ONU n. 1993  
 Transport class: 3  
 Packaging group: II

  
 R: 11  
 S: 7/9-16

## Hexamethyldisiloxane - Analytical Grade

## RPE-For analysis



Description Clear colourless liquid Density at 20° C >=0.762 Boiling point 99 ± 101 ° C

Code	Size	Packaging
446743	ml 1	Glass vial

Derivatizer for chromatography

For further information on above products, see following product/application section(s)  
 Chromatography (p. 34)

## Hexamethylenetetramine

Esametilentetrammina - Hexaméthylènetétramine - Hexametilentetramina

**(CH<sub>2</sub>)<sub>6</sub>N<sub>4</sub>**  
 Atomic weight: 140,19  
 CAS N: 100-97-0  
 EEC N: 202-905-8

**Transport classification**  
 ONU n. 1328  
 Transport class: 4.1  
 Packaging group: III

   
 R: 11-42/43  
 S: 16-22-24-37

## Hexamethylenetetramine - Analytical Grade

## RPE-For analysis



Assay (alkalimetric) >= 98.5 % Description White crystalline powder pH sol. 1% 7 ± 10  
 Water (K.F.) <= 0.5 % Ash <= 0.05 %

Code	Size	Packaging
446875	g 250	Plastic jar
446876	g 1000	Plastic jar

## Hexamethylenetetramine - Pharmaceutical Grade

## RPH-According to pharmacopoeia: Ph.Eur.-USP-DAB



Assay (alkalimetric) 99.0 ± 100.5 % s.s. Description White crystalline powder Appearance of solution Conform Ph.Eur.  
 Acidity or alkalinity Conform Ph.Eur. Residue solvents Conform USP-NF Loss on drying <= 2.0 %  
 Residue on ignition <= 0.1 % Ammonium <= 50 ppm Chloride <= 100 ppm  
 Free formaldehyde <= 50 ppm Sulphate <= 200 ppm Heavy metals (Pb) <= 10 ppm

Code	Size	Packaging
339557	g 1000	Bottle

## Hexane-d14

Esano-d14 - Hexane-d14 - Hexano-d14

**CD<sub>3</sub>(CD<sub>2</sub>)<sub>10</sub>CD<sub>3</sub>**  
 Atomic weight: 100,290  
 CAS N: 21666-38-6  
 EEC N: 203-777-6

**Transport classification**  
 ONU n. 1208  
 Transport class: 3  
 Packaging group: II

    
 R: 11-38-48/20-51/53-62-65-67  
 S: 9-16-29-33-36/37-61-62

## Hexane-d14 - Special Grade

## RS-For NMR spectroscopy



Code	Size	Packaging	Notes
P5472A	ml 1	Ampoule	Isotopic purity 99,00%

For further information on above products, see following product/application section(s)  
 NMR Spectroscopy (p. 65)

## Iso-Hexane

*iso-Esano - Isohexane - iso-Hexano***C<sub>6</sub>H<sub>14</sub>**Atomic weight: 88,18  
CAS N: 92112-69-1  
EEC N: 295-570-2Transport classification  
ONU n. 1208  
Transport class: 3  
Packaging group: IIR: 11  
S: 16-33A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
M  
N  
O  
P  
Q  
R  
S  
T  
U  
V  
W  
X  
Y  
Z

## Iso-Hexane - Analytical Grade

## PA-PUREX-for analysis

Water content (K.F.) <= 150 mg/Kg	Non volatile residue <= 10 mg/Kg	Colour <= 10 Hazen
Aromatic compounds <= 50 mg/Kg	n-hexane <= 5 %	Identification (IR) Conform
Total C <sub>6</sub> H <sub>14</sub> isomers (GC) >= 80 %	Methylcyclopentane <= 16 %	Total sulphur (S) <= 1 ppm

Code	Size	Packaging
P6260516	ml 1000	Glass bottle
P6260521	ml 2500	Glass bottle

## Iso-Hexane - Special Grade

## RS-ATRASOL-For analysis of volatile traces

Identification (IR) Conform	Water content (K.F.) <= 100 mg/Kg	Colour <= 10 Hazen
n-hexane <= 5 %	Total C <sub>6</sub> H <sub>14</sub> isomers (GC) >= 95 %	Non volatile residue <= 5 mg/Kg
GC-ECD.Individual peak (Lindane) <= 3 ng/l	Retention time trichlorobenzene to mirex -	Hydrocarbon oil index <= 0.1 mg/l
Retention time n-decane - n-tetracontane -		

Code	Size	Packaging
P6263221	ml 2500	Glass bottle

For further information on above products, see following product/application section(s)  
Special products for environmental analysis (p. 81)

## RS-For environmental analysis (for Hydrocarbon Oil Index)

Assay (mix of C <sub>6</sub> H <sub>14</sub> isomers) >= 95 %	Appearance Clear colourless liquid	Colour <= 10 APHA
Hydrocarbon Oil Index Conc. <= 0.5 mg/L	Residue on evaporation <= 5 ppm	Water (K.F.) <= 100 ppm

Code	Size	Packaging
526737	ml 2500	Glass bottle

For further information on above products, see following product/application section(s)  
Special products for environmental analysis (p. 81)

## RS-For HPLC-Isocratic Grade

Water content (K.F.) <= 150 mg/Kg	Colour <= 10 Hazen	UV transmittance at 200 nm >= 25 %
UV transmittance at 210 nm >= 55 %	UV transmittance at 220 nm >= 80 %	UV transmittance at 230 nm >= 90 %
UV transmittance at 250 nm >= 98 %	Non volatile residue <= 5 mg/Kg	Identification (IR) Conform
n-hexane <= 6 %	Total C <sub>6</sub> H <sub>14</sub> isomers (GC) >= 80 %	

Code	Size	Packaging
P6263716	ml 1000	Glass bottle
P6263721	ml 2500	Glass bottle

For further information on above products, see following product/application section(s)  
Chromatography (p. 34)

## RS-PESTIPUR-for pesticide analysis

Water content (K.F.) <= 100 mg/Kg	Colour <= 10 Hazen	Identification (IR) Conform
n-hexane <= 5 %	Total C <sub>6</sub> H <sub>14</sub> isomers (GC) >= 80 %	Non volatile residue <= 5 mg/Kg
GC-ECD.Individual peak (Lindane) <= 3 ng/l	Retention time trichlorobenzene to mirex -	

Code	Size	Packaging
P6262216	ml 1000	Glass bottle

## RS-PLUS-for residual pesticide analysis

Code	Size	Packaging
447131	ml 1000	Glass bottle

For further information on above products, see following product/application section(s)  
Special products for environmental analysis (p. 81)

## n-Hexane 99%

*n-Esano 99% - n-Hexane 99% - n-Hexano 99%***CH<sub>3</sub>(CH<sub>2</sub>)<sub>4</sub>CH<sub>3</sub>**Atomic weight: 86,178  
CAS N: 110-54-3  
EEC N: 203-777-6Transport classification  
ONU n. 1208  
Transport class: 3  
Packaging group: IIR: 11-38-48/20-51/53-62-65-67  
S: 9-16-29-33-36/37-61-62

## n-Hexane 99% - Analytical Grade

## n-Hexane 99% - Analytical Grade

## PA-PUREX-for analysis

sds

Assay (GC) >= 99 %	Refractive index at 20°C 1.373 - 1.377	Water content (K.F.) <= 100 mg/Kg
Non volatile residue <= 10 mg/Kg	Colour <= 10 Hazen	Aromatic compounds <= 10 mg/Kg
Total sulphur (S) <= 5 ppm		

Code	Size	Packaging
P052053016	ml 1000	Glass bottle
P052053021	ml 2500	Glass bottle
P052053028	ml 5000	Plastic drum
P052053068	l 200	Metal drum

## n-Hexane 99% - Special Grade

## RS-Anhydrous-for HPLC

sds

Assay (GC) >= 99 %	Refractive index at 20°C 1.373 - 1.377	Water content (K.F.) <= 50 mg/Kg
Colour <= 10 Hazen	Aromatic compounds <= 5 mg/Kg	UV transmittance at 210 nm >= 50 %
UV transmittance at 220 nm >= 80 %	UV transmittance at 230 nm >= 90 %	UV transmittance at 245 nm >= 98 %
Non volatile residue <= 5 mg/Kg	Total sulphur (S) <= 5 ppm	

Code	Size	Packaging
P05230S01/21	ml 2500	Glass bottle

## RS-ATRASOL-For analysis of volatile traces

sds

Assay (GC) >= 99 %	Refractive index at 20°C 1.373 - 1.377	Water content (K.F.) <= 50 mg/Kg
Colour <= 10 Hazen	GC ( FID ) - NC Atrasol Conform	Non volatile residue <= 2 mg/Kg
GC-ECD.Individual peak (CCl4) <= 1 µg/l	Ret.time dichloromethane- trichlorobenz. -	GC-ECD.Individual peak (Lindane) <= 2 ng/l
Retention time trichlorobenzene to mirex -	GC-FID.Individ. peak (hexadecane) <= 5 µg/l	Retention time range over toluène -

Code	Size	Packaging
P052323016	ml 1000	Glass bottle
P052323021	ml 2500	Glass bottle

For further information on above products, see following product/application section(s)

Special products for environmental analysis (p. 81)

## RS-For HPLC-Isocratic Grade

sds

Assay (GC) >= 99 %	Refractive index at 20°C 1.373 - 1.377	Water content (K.F.) <= 150 mg/Kg
Colour <= 10 Hazen	Aromatic compounds <= 5 mg/Kg	UV transmittance at 210 nm >= 50 %
UV transmittance at 220 nm >= 80 %	UV transmittance at 230 nm >= 90 %	UV transmittance at 245 nm >= 98 %
Non volatile residue <= 5 mg/Kg	Total sulphur (S) <= 5 ppm	

Code	Size	Packaging
P052373016	ml 1000	Glass bottle
P052373021	ml 2500	Glass bottle

For further information on above products, see following product/application section(s)

Chromatography (p. 34)

## RS-PESTIPUR-for pesticide analysis

sds

Assay (GC) >= 99 %	Refractive index at 20°C 1.373 - 1.377	Water content (K.F.) <= 100 mg/Kg
Colour <= 10 Hazen	Non volatile residue <= 2 mg/Kg	GC-ECD.Individual peak (Lindane) <= 3 ng/l
Retention time trichlorobenzene to mirex -	GC-NPD.Individual peak (Ethylparathion) <= 3 ng/l	Retention time Atrazin to Coumaphos -

Code	Size	Packaging
P052223016	ml 1000	Glass bottle
P052223021	ml 2500	Glass bottle

## RS-PLUS-for residual pesticide analysis

CARLO ERBA  
Quality since 1888

Assay (GLC) >= 99 %	Description Clear liquid	Colour <= 10 hazen
Not volatile residue <= 5 mg/kg	Water <= 150 mg/kg	GC-ECD (Lindane standard) <= 3 ng/l
GC-NPD (Ethylparathion standard) <= 3 ng/l		

Code	Size	Packaging
447111	ml 1000	Fibreboard box
447112	ml 2500	Glass bottle

For further information on above products, see following product/application section(s)

Special products for environmental analysis (p. 81)

## RS-SPECTROSOL-for optical spectroscopy

sds

Assay (GC) >= 99 %	Refractive index at 20°C 1.373 - 1.377	Water content (K.F.) <= 150 mg/Kg
Colour <= 10 Hazen	Aromatic compounds <= 5 mg/Kg	UV transmittance at 210 nm >= 60 %
UV transmittance at 215 nm >= 70 %	UV transmittance at 220 nm >= 80 %	UV transmittance at 230 nm >= 94 %
UV transmittance at 245 nm >= 98 %	Non volatile residue <= 5 mg/Kg	Total sulphur (S) <= 5 ppm

Code	Size	Packaging
P052273016	ml 1000	Glass bottle
P052273021	ml 2500	Glass bottle

For further information on above products, see following product/application section(s)

Solvents for spectroscopy (p. 68)

## n-Hexane 99% - Technical Grade



## n-Hexane 99% - Technical Grade

## PS-Pure-for synthesis

sds

Assay (GC) >= 99 %	Refractive index at 20°C 1.373 - 1.377	Water content (K.F.) <= 150 mg/Kg
Non volatile residue <= 20 mg/Kg	Colour <= 10 Hazen	Aromatic compounds <= 50 mg/Kg
Total sulphur (S) <= 5 ppm		

Code	Size	Packaging
P052023016	ml 1000	Glass bottle
P052023028	ml 5000	Plastic drum
P052023040	l 10	Metal tank
P052023048	l 25	Metal drum
P052023068	l 200	Metal drum

## RE-Pure

CARLO ERBA  
Quality since 1848

Assay (GLC) >= 99 %	Description Clear liquid	Colour <= 10 APHA
Density at 20°C 0.658 + 0.662	Refractive index at 20°C 1.3699 + 1.3799	Boiling point 68.2 + 69.2 °C
Residue on evaporation <= 20 ppm	Water (K.F.) <= 200 ppm	Bromine rating <= 1
Total sulphur <= 5 ppm		

Code	Size	Packaging
528950	ml 5000	Metal tank
528951	l 25	Metal drum
528952	l 200	Metal drum

## n-Hexane 97-95%

n-Esano 97-95% - n-Hexane 97-95% - n-Hexano 97-95%

**CH<sub>2</sub>(CH<sub>2</sub>)<sub>4</sub>CH<sub>2</sub>**  
Atomic weight: 86,178  
CAS N: 110-54-3  
EEC N: 203-777-6

**Transport classification**  
ONU n. 1208  
Transport class: 3  
Packaging group: II



R: 11-38-48/20-51/53-62-65-67  
S: 9-16-29-33-36/37-61-62

## n-Hexane 97-95% - Analytical Grade

## PA-PUREX-for analysis

sds

Assay (GC) >= 95 %	Refractive index at 20°C 1.373 - 1.377	Water content (K.F.) <= 150 mg/Kg
Non volatile residue <= 10 mg/Kg	Colour <= 10 Hazen	Aromatic compounds <= 10 mg/Kg
Clear, colourless liq. appearance Conform	Identification (IR) Conform	Density d20/4 0.655 - 0.665
Total sulphur (S) <= 5 ppm	Aluminium (Al) <= 0.5 mg/Kg	Copper (Cu) <= 0.01 mg/kg
Iron (Fe) <= 0.1 mg/Kg	Nickel (Ni) <= 0.01 mg/kg	Lead (Pb) <= 0.01 mg/Kg
Zinc (Zn) <= 0.01 mg/Kg		

Code	Size	Packaging
P0520528	ml 5000	Plastic drum

## RPE-ACS-for analysis-Reag. Ph.Eur.

CARLO ERBA  
Quality since 1848

Assay (GLC) >=95 %	Assay(isomeric mixture) >=98.5 %	Description Clear liquid
Colour (APHA) <=10	Alcohol miscibility complete	Diethyl ether miscib. complete
Chloroform miscibility complete	Ready carbonizable substances Conform	Density at 20°C 0.659 + 0.663
Refractive index at 20° 1.375 + 1.376	Distillation range 67 + 69 °C	Water (K.F.) <=100 ppm
Residue on evaporation <=10 ppm	Sost. acide solubili in acqua <=0.0003 meq/g	Benzene <=20 ppm
Subst. reducing KMnO4 <=20 ppm (5m)	Tiophene Conform ACS	Total sulphur <=50 ppm
Cu <=0.01 ppm	Fe <=0.1 ppm	Ni <=0.01 ppm
Pb <=0.01 ppm	Zn <=0.01 ppm	

Code	Size	Packaging
446907	ml 1000	Glass bottle
446902	ml 2500	Glass bottle PVC coated
446903	ml 2500	Glass bottle
446901	ml 5000	Metallic can
446905	kg 18	Metallic can
446904	kg 130	Metal drum

## RPE-For synthesis

CARLO ERBA  
Quality since 1848

Assay (GLC) >=95 %	Description Clear colourless liquid	Alcohol miscibility complete
Ready carbonizable substances Conform	Density at 15° C ~ 0.66	Refractive index at 20° ~ 1.375
Boiling point 67 + 69 °C	Water (K.F.) <=200 ppm	Residue on evaporation <=20 ppm
Acidity (acetic acid) <=20 ppm	Tiophene <=10 ppm	

Code	Size	Packaging
447105	kg 18	Metal drum
447104	kg 130	Metal drum

## n-Hexane 97-95% - Special Grade

## n-Hexane 97-95% - Special Grade

## RS-Anhydrous-for analysis

sds

<b>Assay (GC) &gt;= 95 %</b>	Refractive index at 20°C 1.373 - 1.377	Water content (K.F.) <= 50 mg/Kg
Non volatile residue <= 10 mg/Kg	Colour <= 10 Hazen	Aromatic compounds <= 10 mg/Kg
Clear, colourless liq. appearance Conform	Identification (IR) Conform	Density d20/4 0.655 - 0.665
Total sulphur (S) <= 5 ppm		

Code	Size	Packaging
P0521016	ml 1000	Glass bottle

For further information on above products, see following product/application section(s)  
Anhydrous solvents (p. 27)

## RS-ATRASOL-For analysis of volatile traces

sds

<b>Assay (GC) &gt;= 95 %</b>	Refractive index at 20°C 1.373 - 1.377	Water content (K.F.) <= 100 mg/Kg
Colour <= 10 Hazen	Non volatile residue <= 3 mg/Kg	GC-ECD. Individual peak (Lindane) <= 3 ng/l
<b>Retention time trichlorobenzene to mirex -</b>	Hydrocarbon oil index <= 0.1 mg/l	<b>Retention time n-decane - n-tetracontane -</b>

Code	Size	Packaging
P0523221	ml 2500	Glass bottle

For further information on above products, see following product/application section(s)  
Special products for environmental analysis (p. 81)

## RS-For HPLC-Isocratic Grade

sds

<b>Assay (GC) &gt;= 95 %</b>	Refractive index at 20°C 1.373 - 1.377	Water content (K.F.) <= 100 mg/Kg
Colour <= 10 Hazen	Aromatic compounds <= 10 mg/Kg	UV transmittance at 210 nm >= 50 %
UV transmittance at 220 nm >= 82 %	UV transmittance at 230 nm >= 92 %	UV transmittance at 245 nm >= 98 %
Non volatile residue <= 5 mg/Kg	Total sulphur (S) <= 5 ppm	

Code	Size	Packaging
P0523716	ml 1000	Glass bottle
P0523721	ml 2500	Glass bottle

For further information on above products, see following product/application section(s)  
Chromatography (p. 34)

## RS-For HPLC-Isocratic Grade

CARLO ERBA  
Quality since 1884

<b>Assay (GLC) &gt;=96 %</b>	Description Clear colourless liquid	Density at 25° C >=0.662
Refractive index at 20° 1.3719 + 1.3779	Boiling point 68.5 + 69.0 ° C	Water (K.F.) <=100 ppm
Residue on evaporation <=2 ppm	Acidity or alkalinity <=0.00015 meq/g	<b>U.V. Transmittance -</b>
at 210 nm >=55 %	at 220 nm >=82 %	at 230 nm >=92 %
at 240 nm >=95 %	at 250 nm >=99 %	

Code	Size	Packaging
412601	ml 1000	Glass bottle
412602	ml 2500	Glass bottle

For further information on above products, see following product/application section(s)  
Chromatography (p. 34)

## RS-For optical spectroscopy

CARLO ERBA  
Quality since 1884

<b>Assay (GLC) &gt;=97 %</b>	Description Clear liquid	Colour (APHA) <=10
Density at 20°C 0.659 + 0.663	Refractive index at 20° 1.375 + 1.376	Boiling point 67 + 69 ° C
Acidity or alkalinity <=0.00015 meq/g	Water (K.F.) <=100 ppm	Residue on evaporation <=2 ppm
<b>Fluorescence -</b>	at 254 nm <=2 ppb	at 365 nm <=2 ppb
<b>U.V. Transmittance -</b>	at 200 nm >=50 %	at 210 nm >=79 %
at 220 nm >=94 %	at 230 nm >=98 %	at 240 nm >=99 %
at 250 nm >=99 %		

Code	Size	Packaging
446934	ml 1000	Glass bottle
446932	ml 2500	Glass bottle

For further information on above products, see following product/application section(s)  
Solvents for spectroscopy (p. 68)

## RS-For preparative HPLC

sds

<b>Assay (GC) &gt;= 95 %</b>	Refractive index at 20°C 1.373 - 1.377	Water content (K.F.) <= 50 mg/Kg
Colour <= 10 Hazen	UV transmittance at 220 nm >= 50 %	UV transmittance at 265 nm >= 98 %
Non volatile residue <= 5 mg/Kg		

Code	Size	Packaging
P05237P21	ml 2500	Glass bottle

Filtered at 1 mm

For further information on above products, see following product/application section(s)  
Chromatography (p. 34)

## RS-For residual pesticides analysis

CARLO ERBA  
Quality since 1884

<b>Assay (GLC) &gt;=97 %</b>	Description Clear colourless liquid	Density at 15° C >=0.662
Water (K.F.) <=100 ppm	Residue on evaporation <=2 ppm	GC-ECD (Lindano) <=5 ng/l
GC_NPD (Parathion) <=10 ng/l	GC-FID Conform	

Code	Size	Packaging
446961	ml 1000	Glass bottle
446963	ml 2500	Glass bottle

GC-ECD: < 5 pg/ml GC-NPD: < 10 pg/ml

For further information on above products, see following product/application section(s)  
Special products for environmental analysis (p. 81)

## n-Hexane 97-95% - Special Grade

## RS-PESTIPUR-for pesticide analysis

sds

Assay (GC) >= 95 %	Refractive index at 20°C 1.373 - 1.377	Water content (K.F.) <= 150 mg/Kg
Colour <= 10 Hazen	Non volatile residue <= 5 mg/Kg	GC-ECD.Individual peak (Lindane) <= 3 ng/l
Retention time trichlorobenzene to mirex -	GC-NPD.Individual peak (Ethylparathion) <= 3 ng/l	Retention time Atrazin to Coumaphos -

Code	Size	Packaging
P05222S16	ml 1000	Glass bottle
P05222S21	ml 2500	Glass bottle

## RS-PLUS-for residual pesticide analysis

CARLO ERBA  
Quality since 1928

Assay (HRGC) 99 + 100 %	Description Clear colourless liquid
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Code	Size	Packaging
447011	ml 1000	Glass bottle
447012	ml 2500	Glass bottle

For further information on above products, see following product/application section(s)

Special products for environmental analysis (p. 81)

## n-Hexane 97-95% - Technical Grade

## PS-Pure-for synthesis

sds

Assay (GC) >= 95 %	Refractive index at 20°C 1.373 - 1.377	Water content (K.F.) <= 150 mg/Kg
Non volatile residue <= 20 mg/Kg	Colour <= 10 Hazen	Aromatic compounds <= 50 mg/Kg
Clear, colourless liq. appearance Conform	Identification (IR) Conform	Density d20/4 0.655 - 0.665
Total sulphur (S) <= 5 ppm		

Code	Size	Packaging
P0520229	ml 5000	Plastic drum
P0520240	l 10	Metal tank
P0520248	l 25	Metal drum
P0520268	l 200	Metal drum

## RE-Pure

CARLO ERBA  
Quality since 1928

Assay (GLC) >= 95 %	Description Clear colourless liquid	Tiophene Conform
Density at 20° C 0.655 + 0.665	Refractive index at 20° 1.3699 + 1.3799	Boiling point 68.2 + 69.2 °C
Water (K.F.) <= 100 ppm	Residue on evaporation <= 20 ppm	Acidity (Caproic acid) <= 40 ppm
Benzene <= 100 ppm		

Code	Size	Packaging
339751	ml 1000	Glass bottle
339755	ml 2500	Glass bottle
528945	ml 5000	Metal tank
339756	kg 18	Metal drum
339757	kg 130	Metal drum
528946	l 25	Drum

## Hexane mixture of isomers

Esano miscela di isomeri - Hexane mélange d'isomères - Hexano mezcla de isómeros

$\text{CH}_2(\text{CH}_2)_4\text{CH}_3$   
Atomic weight: 86,178  
CAS N: 110-54-3  
EEC N: 203-777-6

Transport classification  
ONU n. 1208  
Transport class: 3  
Packaging group: II



R: 11-38-48/20-51/53-62-65-67  
S: 9-16-29-33-36/37-61-62

## Hexane mixture of isomers - Analytical Grade

## PA-PUREX-for analysis

sds

Refractive index at 20°C 1.375 - 1.383	Water content (K.F.) <= 100 mg/Kg	Non volatile residue <= 10 mg/Kg
Colour <= 10 Hazen	GC chromatogram Conform	Aromatic compounds <= 50 mg/Kg
Total sulphur (S) <= 5 ppm		

Code	Size	Packaging
P052000516	ml 1000	Glass bottle
P052000521	ml 2500	Glass bottle
P052000540	l 10	Metal tank
P052000548	l 25	Metal drum
P052000568	l 200	Metal drum

## Hexane mixture of isomers - Special Grade

## RS-For HPLC-Isocratic Grade

sds

Refractive index at 20°C 1.375 - 1.383	Water content (K.F.) <= 150 mg/Kg	Colour <= 10 Hazen
UV transmittance at 240 nm >= 94 %	UV transmittance at 250 nm >= 98 %	UV transmittance at 260 nm >= 98 %
Aromatic compounds <= 5 mg/Kg	Non volatile residue <= 5 mg/Kg	Total sulphur (S) <= 5 ppm

Code	Size	Packaging
P052003716	ml 1000	Glass bottle
P052003721	ml 2500	Glass bottle

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
M  
N  
O  
P  
Q  
R  
S  
T  
U  
V  
W  
X  
Y  
Z

## Hexane mixture of isomers - Special Grade

## RS-For preparative HPLC

sds

Refractive index at 20°C 1.375 - 1.383	Water content (K.F.) ≤ 150 mg/Kg	Colour ≤ 10 Hazen
UV transmittance at 240 nm ≥ 92 %	UV transmittance at 260 nm ≥ 96 %	Non volatile residue ≤ 5 mg/Kg
Total sulphur (S) ≤ 5 ppm		

Code	Size	Packaging
P0520037P21	ml 2500	Glass bottle

For further information on above products, see following product/application section(s)

Chromatography (p. 34)

## RS-PESTIPUR-for pesticide analysis

sds

Code	Size	Packaging
P0522216	ml 1000	Glass bottle
P0522221	ml 2500	Glass bottle

## RS-PLUS-for residual pesticide analysis

CARLO ERBA  
Quality since 1938

Assay (HRGC) 99 + 100 %	Description White crystals
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Code	Size	Packaging
447181	ml 1000	Glass bottle
447182	ml 2500	Glass bottle

For further information on above products, see following product/application section(s)

Special products for environmental analysis (p. 81)

## Hexane mixture of isomers - Technical Grade

## PS-Pure-for synthesis

sds

Refractive index at 20°C 1.375 - 1.383	Water content (K.F.) ≤ 200 mg/Kg	Non volatile residue ≤ 50 mg/Kg
Colour ≤ 10 Hazen	GC chromatogram Conform	Total sulphur (S) ≤ 5 ppm

Code	Size	Packaging
P0520029	ml 5000	Plastic drum
P0520040	l 10	Metal tank
P0520048	l 25	Metal drum

## RE-Pure

CARLO ERBA  
Quality since 1938

Description Clear colourless liquid	Density at 20° C 0.665 + 0.675	Refractive index at 20° 1.3750 + 1.3850
Boiling point 63 + 70 ° C	Water (K.F.) ≤ 300 ppm	Aromatics ≤ 30 ppm
Residue on evaporation ≤ 100 ppm	Total sulphur ≤ 5 ppm	

Code	Size	Packaging
339851	ml 1000	Glass bottle
339852	ml 2500	Glass bottle
339856	kg 18	Metal drum
339853	kg 130	Metal drum
528942	l 200	Drum

## 1-Hexanesulphonic acid sodium salt

Acido 1-esansolfonico sale sodico - Acide 1-hexanesulfonique sel sodique - Acido 1-hexanosulfónico sal sódica

CH<sub>3</sub>(CH<sub>2</sub>)<sub>5</sub>SO<sub>3</sub>Na  
 Atomic weight: 188,22  
 CAS N: 2832-45-3  
 EEC N: 220-601-3

## 1-Hexanesulphonic acid sodium salt - Special Grade

## RS-For ion pair chromatography

CARLO ERBA  
Quality since 1938

Assay ≥ 98 %	Description White crystalline powder	Water-insoluble matter ≤ 0.1 %
Loss on drying ≤ 2.0 %	pH 5.5+7.5	Chloride ≤ 0.05 %
Phosphate ≤ 10 ppm	Ammonium ≤ 0.05 %	Al ≤ 5 ppm
Ca ≤ 10 ppm	Cu ≤ 5 ppm	Fe ≤ 5 ppm
K ≤ 50 ppm	Mg ≤ 5 ppm	Pb ≤ 10 ppm
Zn ≤ 5 ppm	at 200 nm ≥ 70	Transmittance -
at 220 nm ≥ 90	at 250 nm ≥ 98	

Code	Size	Packaging
405621	g 25	Glass jar

## n-Hexylamine

n-Esillamina - n-Hexylamine - n-Hexilamina

CH<sub>3</sub>(CH<sub>2</sub>)<sub>5</sub>CH<sub>2</sub>NH<sub>2</sub>  
 Atomic weight: 101,17  
 CAS N: 111-26-2  
 EEC N: 203-851-8

Transport classification  
 ONU n. 1993  
 Transport class: 3  
 Packaging group: III



R: 11-36/37  
 S: 16-26-29

## n-Hexylamine - Analytical Grade

## n-Hexylamine - Analytical Grade



## RPE-For analysis

Assay (GLC) $\geq 99\%$	Description Clear colourless liquid	Density at 25° C 0.760 ± 0.766
Refractive index at 20° 1.4160 ± 1.4200	Boiling point 129.0 ± 131.0 °C	Melting point -18.0 ± -20.0 °C
Residue on evaporation $\leq 500$ ppm		

Code	Size	Packaging
447031	ml 250	Glass bottle

## Hippuric acid

*Acido ippurico - Acide hippurique - Acido hipúrico*

Atomic weight: 179,17

CAS N: 495-69-2

EEC N: 207-806-3

## Hippuric acid - Analytical Grade



## RPE-For analysis

Assay (acidimetric) $\geq 99\%$	Description White crystals	Melting point 189.0 ± 191.0 °C
Chloride $\leq 10$ ppm	Heavy metals (Pb) $\leq 20$ ppm	Loss on drying $\leq 0.5\%$
Residue on ignition $\leq 100$ ppm	Sulphate $\leq 50$ ppm	Fe $\leq 10$ ppm

Code	Size	Packaging
407012	g 25	Glass jar

For biochemistry

## Histamine dihydrochloride

*Istamina bicloridrato - Histamine dichlorhydratée - Histamina diclorhidrato*

Atomic weight: 184,07

CAS N: 56-92-8

EEC N: 200-298-4



R: 22

S: 23

## Histamine dihydrochloride - Analytical Grade



## RPE-For analysis

Assay (non-aqueous medium) $\geq 98.5\%$	Description Yellowish crystalline powder	Loss on drying $\leq 0.5\%$
Residue on ignition $\leq 0.1\%$		

Code	Size	Packaging
456851	g 10	Glass jar

For biochemistry

## L-Histidine hydrochloride

*L-Istidina monocloridrato - L-Histidine monochlorhydratée - L-Histidina monoclorhidrato*

Atomic weight: 209,63

CAS N: 5934-29-2

EEC N: 211-438-9

## L-Histidine hydrochloride - Analytical Grade



## RPE-For analysis

Assay 99.0 ± 101.0 % s.s.	Description White crystalline powder	Identification (I.R.) Positive
Specific optical rotation ( $c=11$ in HCl) $+8.9 \pm +9.5^\circ$	Heavy metals (Pb) $\leq 10$ ppm	Fe $\leq 10$ ppm
Residue on ignition $\leq 0.1\%$	As $\leq 1$ ppm	Loss on drying $\leq 0.2\%$
Sulphate $\leq 0.02\%$	pH sol 10% 3.5 ± 4.5	Ammonium $\leq 0.02\%$
Chloride 16.6 ± 17.1 %	Foreign amino-acids (TLC) $\leq 0.2\%$	

Code	Size	Packaging
456952	g 25	Glass jar
456951	g 500	Fibreboard box

For biochemistry

## Histolemon-Erba

*Histolemon-Erba - Histolemon-Erba - Histolemon-Erba*

CAS N: 8028-48-6

EEC N: 232-443-8

Transport classification

ONU n. 2319

Transport class: 3

Packaging group: III



R: 10-38-38-43-50/53

S: 24-37-60-61

## Histolemon-Erba - Special Grade

## Histolemon-Erba - Special Grade

## RS-Biodegradable solvent



Assay (GLC)  $\geq 95\%$  Description Clear liquid Colour (APHA)  $\leq 25$   
 Density at 20° C  $0.835 \pm 0.845$

Code	Size	Packaging
454911	ml 1000	Glass bottle
454912	ml 2500	Glass bottle
454915	ml 5000	Metallic can
454913	kg 173	Metal drum

Diaphanizer for histology

For further information on above products, see following product/application section(s)  
 Microscopy (p. 58)

## Histovitrex-Erba

Histovitrex-Erba - Histovitrex-Erba - Histovitrex-Erba

Transport classification  
 ONU n. 1993  
 Transport class: 3  
 Packaging group: III



R: 10-21/22-38-62-63  
 S: 16-24/25

## Histovitrex-Erba - Special Grade

## RS-Mounting medium in xylene for histology



Description Clear colourless liquid Density at 20° C  $0.90 \pm 1.01$  Refractive index at 20°  $1.40 \pm 1.60$

Code	Size	Packaging
454984	6 x ml 100	Glass bottle

For further information on above products, see following product/application section(s)  
 Microscopy (p. 58)

## HOBT

HOBT - HOBT - HOBT

Transport classification  
 ONU n. 1325  
 Transport class: 4.1  
 Packaging group: III



## HOBT - Special Grade

## RS-For molecular biology



Code	Size	Packaging
PHOBT/17	g 1000	-

## Holmium

Olmio - Holmium - Holmio

Ho

Transport classification  
 ONU n. 3264



R: 34  
 S: 26-36/37/39-45

## Holmium - Special Grade

## RS-Standard solution for ICP



Code	Size	Packaging	Notes
504261	ml 100	Plastic bottle	Matrice: Nitric acid, conc. 1.000 ppm
504265	ml 100	Plastic bottle	Matrice: Nitric acid, conc. 10.000 ppm
504263	ml 500	Plastic bottle	Matrice: Nitric acid, conc. 1.000 ppm
504267	ml 500	Plastic bottle	Matrice: Nitric acid, conc. 10.000 ppm

Provided with real batch certificate. Verified against NIST Standard Reference

For further information on above products, see following product/application section(s)  
 Trace metal analysis (p. 86)

## RS-Standard solution for ICP-MS



Code	Size	Packaging	Notes
505656	ml 50	Plastic bottle	Matrice: Nitric acid, conc. 10 ppm
505657	ml 100	Plastic bottle	Matrice: Nitric acid, conc. 10 ppm
505658	ml 100	Plastic bottle	Matrice: Nitric acid, conc. 100 ppm

For further information on above products, see following product/application section(s)  
 Trace metal analysis (p. 86)

## Holmium oxide

Olmio ossido - Holmium oxyde - Holmio oxido

Ho<sub>2</sub>O<sub>3</sub>

Atomic weight: 377,88  
 CAS N: 12055-62-8  
 EEC N: 235-015-3

## Holmium oxide - Analytical Grade

## Holmium oxide - Analytical Grade

## RPE-For analysis

Assay  $\geq 99.85\%$  Description Yellowish powder

Code	Size	Packaging
466831	g 1	Glass bottle

## DL-Homocysteic acid

Acido DL-omocisteico - Acide DL-homocystéique - Acido DL-omocisteico



Atomic weight: 183,180

CAS N: 504-33-6

EEC N: 207-991-0

## DL-Homocysteic acid - Analytical Grade

## RPE-For analysis

Assay (acidimetric)  $98.0 \pm 102.0\%$  Description White crystalline powder Water solubility Conform  
Melting point  $\geq 265^\circ\text{C}$  Water (K.F.)  $\leq 1.0\%$ 

Code	Size	Packaging
408651	g 500	Plastic jar

## Hyamine 1622

Hyamine 1622 - Hyamine 1622 - Hyamine 1622



Atomic weight: 448,10

CAS N: 121-54-0

EEC N: 204-479-9

## Transport classification

ONU n. 3077

Transport class: 9

Packaging group: III

R: 22-34-50-53  
S: 26-28-36/37/39-61

## Synonymes

Benzéthoniumchlorure

## Hyamine 1622 - Analytical Grade

## RPE-For analysis

Assay (argentimetric)  $\geq 96.0\%$  Description White powder Loss on drying  $\leq 5\%$   
Melting point  $158 \pm 163^\circ\text{C}$ 

Code	Size	Packaging
454921	g 100	Plastic jar

For the analysis of surfactants

## Hyamine 1622 solution 0,004M

Hyamine 1622 soluzione 0,004M - Hyamine 1622 en solution 0,004M - Hyamine 1622 solución 0,004M



CAS N: 121-54-0

EEC N: 204-479-9

## Hyamine 1622 solution 0,004M - Special Grade

## RS-For anionic surfactants detection

Assay (at production)  $0.0035 \pm 0.0045\text{ Mol/l}$  Description Clear colourless liquid

Code	Size	Packaging
454972	ml 1000	Bottle

## Hydrazine dihydrochloride

Idrazina dicloridrato - Hydrazine dichlorhydraté - Hidrazina diclorhidrato



Atomic weight: 104,97

CAS N: 5341-61-7

EEC N: 226-283-2

## Transport classification

ONU n. 3288

Transport class: 6.1

Packaging group: III

R: 45-23/24/25-43-50/53  
S: 53-45-60-61

## Hydrazine dihydrochloride - Analytical Grade

## RPE-For analysis

Assay (oxidimetric)  $\geq 99\%$  Description White crystalline powder Melting point  $193.5 \pm 202.5^\circ\text{C}$   
Water-insoluble matter  $\leq 50\text{ ppm}$  Heavy metals (Pb)  $\leq 5\text{ ppm}$  Residue on ignition  $\leq 100\text{ ppm}$   
Sulphate  $\leq 10\text{ ppm}$  Fe  $\leq 5\text{ ppm}$ 

Code	Size	Packaging
455056	g 500	Plastic jar

## Hydrazine dihydrochloride - Technical Grade

## RE-Pure

Assay (oxidimetric)  $98.5 \pm 100.0\%$  Description White crystalline powder Melting point  $193.5 \pm 202.5^\circ\text{C}$   
Residue on ignition  $\leq 500\text{ ppm}$ 

Code	Size	Packaging
347712	g 1000	Plastic jar

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
M  
N  
O  
P  
Q  
R  
S  
T  
U  
V  
W  
X  
Y  
Z

## Hydrazine hydrate

Idrazina idrato - Hydrazine hydratée - Hidrazina hidróxido

**NH<sub>2</sub>NH<sub>2</sub>·H<sub>2</sub>O**Atomic weight: 50,061  
CAS N: 7803-57-8  
EEC N: 206-114-9**Transport classification**ONU n. 2030  
Transport class: 8  
Secondary risk: 6.1  
Packaging group: IR: 45-23/24/25-34-43  
S: 53-45

## Hydrazine hydrate - Technical Grade

## RE-Pure



Assay (oxidimetric) &gt;=98 %

Description Clear colourless liquid

Density at 20° C 1.025 + 1.035

Chloride &lt;=300 ppm

Heavy metals (Pb) &lt;=50 ppm

Residue on ignition &lt;=0.1 %

Sulphate &lt;=200 ppm

Code	Size	Packaging
347751	kg 60	Drum

## Hydrindantin

Iidrindantina - Hydrindantine - Hidrindantina

**C<sub>10</sub>H<sub>10</sub>O<sub>6</sub>·5H<sub>2</sub>O**Atomic weight: 358,26  
CAS N: 5950-69-6  
EEC N: 225-823-4

R: 36/37/38

## Hydrindantin - Analytical Grade

## RPE-For analysis



Assay &gt;= 95 %

Description Beige powder

Melting point &gt;= 240 °C

Code	Size	Packaging
455291	g 5	Glass jar

For further information on above products, see following product/application section(s)  
Chromatography (p. 34)

## Hydriodic acid 57%

Acido iodidrico 57% - Acide iodhydrique 57% - Acido yodhídrico 57%

**HI**Atomic weight: 127,92  
CAS N: 10034-85-2  
EEC N: 233-109-9**Transport classification**ONU n. 1787  
Transport class: 8  
Packaging group: IIR: 34  
S: 26-45

## Hydriodic acid 57% - Analytical Grade

## RPE-For analysis



Assay (argentimetric) &gt;=55 %

Description Yellow clear liquid

Density at 20° C 1.690 + 1.710

Chloride + bromide (Cl) &lt;=300 ppm

Free iodine (I) &lt;=250 ppm

Heavy metals (Pb) &lt;=5 ppm

Residue on ignition &lt;=40 ppm

Total sulphur &lt;=50 ppm

As &lt;=1 ppm

Fe &lt;=2 ppm

Code	Size	Packaging
406831	ml 100	Glass bottle
406833	ml 1000	Glass bottle
406835	kg 38	Glass-metal/polythene contain.

Stabilized with ~1,5% of hypophosphorous acid

## Hydrobromic acid 48%

Acido bromidrico 48% - Acide bromhydrique 48% - Acido bromhídrico 48%

**HBr**Atomic weight: 80,917  
CAS N: 10035-10-6  
EEC N: 233-113-0**Transport classification**ONU n. 1788  
Transport class: 8  
Packaging group: IIR: 34-37  
S: 7/9-26-45

## Hydrobromic acid 48% - Analytical Grade

## RPE-ACS-ISO-for analysis



Assay (acidimetric) 47.0 + 49.0 %

Description Yellow clear liquid

Organic substances Conform

Density at 20° C 1.473 + 1.503

Chloride &lt;= 200 ppm

Total phosphorus &lt;= 2 ppm

Iodide &lt;= 2 ppm

Heavy metals (Pb) &lt;= 2 ppm

Residue on ignition &lt;= 20 ppm

Sulphate &lt;= 5 ppm

Sulphite &lt;= 25 ppm

As &lt;= 0.5 ppm

Ca &lt;= 10 ppm

Fe &lt;= 1 ppm

Mg &lt;= 5 ppm

Se &lt;= 0.01 ppm

Code	Size	Packaging
402925	ml 250	Glass bottle
402922	ml 1000	Glass bottle



## Hydrochloric acid 0,714 mol/l

Acido cloridrico 0,714 mol/l - Acide chlorhydrique 0,714 mol/l - Acido clorhidrico 0,714 mol/l

## HCl

Atomic weight: 36,461  
CAS N: 7647-01-0  
EEC N: 231-595-7

## Transport classification

ONU n. 1789  
Transport class: 8  
Packaging group: IIR: 36/37/38  
S: 26A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
M  
N  
O  
P  
Q  
R  
S  
T  
U  
V  
W  
X  
Y  
Z

## Hydrochloric acid 0,714 mol/l - Special Grade

## RS-For agroalimentary analysis



Assay 0.710 ± 0.718 N

Description Clear colourless liquid

Code	Size	Packaging
526531	l 10	Plastic tank
526533	l 10	Plastic tank

For further information on above products, see following product/application section(s)

Agriculture and food sector analyses (p. 25)

## Hydrochloric acid 37%

Acido cloridrico 37% - Acide chlorhydrique 37% - Acido clorhidrico 37%

## HCl

Atomic weight: 36,461  
CAS N: 7647-01-0  
EEC N: 231-595-7

## Transport classification

ONU n. 1789  
Transport class: 8  
Packaging group: IIR: 34-37  
S: 26-45

## Hydrochloric acid 37% - Analytical Grade

## RPE-For analysis



Assay (acidimetric) >=36.5 %	Description Clear liquid	Colour (APHA) <=10
Density at 20° C 1.183 ± 1.189	Ammonium <=1 ppm	Bromide <=50 ppm
Free chlorine <=0.5 ppm	Phosphate <=0.5 ppm	Heavy metals (Pb) <=0.1 ppm
Residue on ignition <=5 ppm	Sulphate <=1 ppm	Sulphite <=0.5 ppm
Al <=0.2 ppm	As <=0.01 ppm	Ba <=0.1 ppm
Be <=0.02 ppm	Bi <=0.05 ppm	Ca <=0.5 ppm
Cd <=0.005 ppm	Co <=0.01 ppm	Cr <=0.02 ppm
Cu <=0.01 ppm	Fe <=0.2 ppm	Hg <=0.1 ppm
K <=0.1 ppm	Li <=0.02 ppm	Mg <=0.3 ppm
Mn <=0.01 ppm	Mo <=0.05 ppm	Na <=0.5 ppm
Ni <=0.02 ppm	Pb <=0.05 ppm	Sr <=0.02 ppm
Ti <=0.05 ppm	Tl <=0.05 ppm	V <=0.02 ppm
Zn <=0.05 ppm	Zr <=0.05 ppm	Residue on evaporation <=100 ppm

Code	Size	Packaging
524525	ml 1000	Plastic bottle
524526	ml 2500	Plastic bottle

## RPE-ISO-for analysis



Assay (acidimetric) >=36.5 %	Description Clear liquid	Colour (APHA) <=10
Density at 20° C 1.183 ± 1.189	Ammonium <=1 ppm	Bromide <=50 ppm
Free chlorine <=0.5 ppm	Phosphate <=0.5 ppm	Heavy metals (Pb) <=0.1 ppm
Residue on ignition <=5 ppm	Sulphate <=1 ppm	Sulphite <=0.5 ppm
Al <=0.2 ppm	As <=0.01 ppm	Ba <=0.1 ppm
Be <=0.02 ppm	Bi <=0.05 ppm	Ca <=0.5 ppm
Cd <=0.005 ppm	Co <=0.01 ppm	Cr <=0.02 ppm
Cu <=0.01 ppm	Fe <=0.2 ppm	Hg <=0.1 ppm
K <=0.1 ppm	Li <=0.02 ppm	Mg <=0.3 ppm
Mn <=0.01 ppm	Mo <=0.05 ppm	Na <=0.5 ppm
Ni <=0.02 ppm	Pb <=0.05 ppm	Sr <=0.02 ppm
Ti <=0.05 ppm	Tl <=0.05 ppm	V <=0.02 ppm
Zn <=0.05 ppm	Zr <=0.05 ppm	Residue on evaporation <=100 ppm

Code	Size	Packaging
403871	ml 1000	Glass bottle
403876	ml 1000	Glass bottle PVC coated
403872	ml 2500	Glass bottle
403878	ml 5000	Plastic bottle
403874	kg 25	Plastic drum

## Hydrochloric acid 37% - Special Grade

## Hydrochloric acid 37% - Special Grade

## RS-MOS For electronic use-ERBATRON



<b>Assay (acidimetric)</b> >=36.5 %	Description Clear liquid	Colour (APHA) <=10
Density at 20° C 1.183 + 1.189	Ammonium <=1 ppm	Bromide <=2 ppm
Free chlorine <=0.5 ppm	Phosphate <=0.1 ppm	Heavy metals (Pb) <=0.1 ppm
Residue on ignition <=2 ppm	Sulphate <=0.5 ppm	Sulphite <=0.5 ppm
Ag <=0.02 ppm	Al <=0.05 ppm	As <=0.005 ppm
Au <=0.05 ppm	B <=0.02 ppm	Ba <=0.05 ppm
Be <=0.02 ppm	Bi <=0.02 ppm	Ca <=0.5 ppm
Cd <=0.005 ppm	Co <=0.01 ppm	Cr <=0.01 ppm
Cu <=0.005 ppm	Fe <=0.1 ppm	Ga <=0.02 ppm
Hg <=0.1 ppm	In <=0.02 ppm	K <=0.1 ppm
Li <=0.02 ppm	Mg <=0.1 ppm	Mn <=0.01 ppm
Mo <=0.05 ppm	Na <=0.5 ppm	Ni <=0.01 ppm
Pb <=0.05 ppm	Pt <=0.05 ppm	Sb <=0.005 ppm
Sn <=0.02 ppm	Sr <=0.02 ppm	Ta <=0.1 ppm
Ti <=0.05 ppm	Tl <=0.05 ppm	V <=0.05 ppm
Zn <=0.02 ppm	Zr <=0.05 ppm	

Code	Size	Packaging
403941	ml 2500	Glass bottle

Minimum order: 48 bottles

## RS-RSE For electronic use-ERBATRON



<b>Assay (acidimetric)</b> >=36.5 %	Description Clear liquid	Colour (APHA) <=10
Density at 20° C 1.183 + 1.189	Ammonium <=1 ppm	Bromide <=2 ppm
Free chlorine <=0.5 ppm	Phosphate <=0.1 ppm	Heavy metals (Pb) <=0.1 ppm
Residue on ignition <=2 ppm	Sulphate <=0.5 ppm	Sulphite <=0.5 ppm
Ag <=0.02 ppm	Al <=0.05 ppm	As <=0.005 ppm
Au <=0.05 ppm	B <=0.02 ppm	Ba <=0.05 ppm
Be <=0.02 ppm	Bi <=0.02 ppm	Ca <=0.5 ppm
Cd <=0.005 ppm	Co <=0.01 ppm	Cr <=0.01 ppm
Cu <=0.005 ppm	Fe <=0.1 ppm	Ga <=0.02 ppm
Hg <=0.1 ppm	In <=0.02 ppm	K <=0.1 ppm
Li <=0.02 ppm	Mg <=0.1 ppm	Mn <=0.01 ppm
Mo <=0.05 ppm	Na <=0.5 ppm	Ni <=0.01 ppm
Pb <=0.05 ppm	Pt <=0.05 ppm	Sb <=0.005 ppm
Sn <=0.02 ppm	Sr <=0.02 ppm	Ta <=0.1 ppm
Ti <=0.05 ppm	Tl <=0.05 ppm	V <=0.05 ppm
Zn <=0.02 ppm	Zr <=0.05 ppm	

Code	Size	Packaging
403977	ml 1000	Glass bottle
403971	ml 2500	Glass bottle

## Hydrochloric acid 37% - Technical Grade

## RE-Pure



<b>Assay (acidimetric)</b> 37 ± 2 %	Description Clear colourless liquid	Density at 20°C 1.183 + 1.189
-------------------------------------	-------------------------------------	-------------------------------

Code	Size	Packaging
528525	ml 5000	Plastic tank
303871	kg 25	Drum

## Hydrochloric acid 35%

Acido cloridrico 35% - Acide chlorhydrique 35% - Acido clorhidrico 35%

**HCl**  
Atomic weight: 36,461  
CAS N: 7647-01-0  
EEC N: 231-595-7

**Transport classification**  
ONU n. 1789  
Transport class: 8  
Packaging group: II



R: 34-37  
S: 26-45

## Hydrochloric acid 35% - Pharmaceutical Grade

## RPH-According to pharmacopoeia: Ph.Eur.-NF-FU-Ph.Franc.-BP



<b>Assay (acidimetric)</b> 36.5 + 38.0 %	Description Clear colourless liquid	Appearance of solution Conform Ph.Eur.
Bromide and iodide Conform USP-NF	Free bromine or chlorine Conform USP-NF	Sulphite Conform USP-NF
Density at 20° C ~ 1,18	Residue on evaporation <= 100 ppm	Residue on ignition <= 80 ppm
Free chlorine <= 4 ppm	Sulphate <= 20 ppm	Heavy metals (Pb) <= 2 ppm
Origin (BSE/TSE) Synthesis	Residual solvents (CPMP/ICH/283/95) Conform	

Code	Size	Packaging
302672	ml 100	Bottle
302621	ml 1000	Glass bottle
302626	ml 2500	Glass bottle
302623	kg 25	Plastic drum
302627	kg 55	Plastic drum
302625	kg 220	Plastic drum

## Hydrochloric acid 34-37%

Acido cloridrico 34-37% - Acide chlorhydrique 34-37% ultrapur - Acido cloridrico 34-37%

## HCl

Atomic weight: 36,461  
CAS N: 7647-01-0  
EEC N: 231-595-7

## Transport classification

ONU n. 1789  
Transport class: 8  
Packaging group: IIR: 34-37  
S: 26-45A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
M  
N  
O  
P  
Q  
R  
S  
T  
U  
V  
W  
X  
Y  
Z

## Hydrochloric acid 34-37% - Special Grade

## RS-Superpure-for trace analysis



Assay (acidimetric) 34 ± 37 %	Description Clear liquid	Ag ≤ 1 ppb
Al ≤ 1 ppb	As ≤ 1 ppb	B ≤ 1 ppb
Ba ≤ 1 ppb	Be ≤ 1 ppb	Bi ≤ 1 ppb
Ca ≤ 1 ppb	Cd ≤ 1 ppb	Co ≤ 1 ppb
Cr ≤ 1 ppb	Cu ≤ 1 ppb	Fe ≤ 1 ppb
Hg ≤ 1 ppb	K ≤ 1 ppb	Li ≤ 1 ppb
Mg ≤ 1 ppb	Mn ≤ 1 ppb	Mo ≤ 1 ppb
Na ≤ 1 ppb	Ni ≤ 1 ppb	Pb ≤ 1 ppb
Sb ≤ 1 ppb	Se ≤ 1 ppb	Sn ≤ 1 ppb
Sr ≤ 1 ppb	Ti ≤ 1 ppb	V ≤ 1 ppb
Zn ≤ 1 ppb	Zr ≤ 1 ppb	Th ≤ 1 ppb
Colour (APHA) ≤ 10	U ≤ 1 ppb	Ce ≤ 0.5 ppb
Cs ≤ 0.5 ppb	Dy ≤ 0.5 ppb	Er ≤ 0.5 ppb
Eu ≤ 0.5 ppb	Gd ≤ 0.5 ppb	Ga ≤ 0.5 ppb
Au ≤ 0.5 ppb	Hf ≤ 0.5 ppb	Ho ≤ 0.5 ppb
In ≤ 0.5 ppb	La ≤ 0.5 ppb	Lu ≤ 0.5 ppb
Nd ≤ 0.5 ppb	Nb ≤ 0.5 ppb	Pr ≤ 0.5 ppb
Re ≤ 0.5 ppb	Rh ≤ 0.5 ppb	Rb ≤ 0.5 ppb
Ru ≤ 0.5 ppb	Sm ≤ 0.5 ppb	Sc ≤ 0.5 ppb
Te ≤ 0.5 ppb	Tb ≤ 0.5 ppb	Tl ≤ 0.5 ppb
Tm ≤ 0.5 ppb	W ≤ 0.5 ppb	Yb ≤ 0.5 ppb
Y ≤ 0.5 ppb		

Code	Size	Packaging
403912	ml 500	Glass bottle
403913	ml 1000	Glass bottle
403914	ml 2500	Glass bottle

For further information on above products, see following product/application section(s)  
Trace metal analysis (p. 86)

## Hydrochloric acid 32-35%

Acido cloridrico 32-35% - Acide chlorhydrique 32-35% ultrapur - Acido cloridrico 32-35%

## HCl

Atomic weight: 36,461  
CAS N: 7647-01-0  
EEC N: 231-595-7

## Transport classification

ONU n. 1789  
Transport class: 8  
Packaging group: IIR: 34-37  
S: 26-45

## Hydrochloric acid 32-35% - Special Grade

## RS-Ultrapure-for trace analysis



Assay (acidimetric) 32 ± 35 %	Description Clear colourless liquid	Ag ≤ 10 ppt
Al ≤ 20 ppt	As ≤ 50 ppt	Au ≤ 100 ppt
B ≤ 100 ppt	Ba ≤ 10 ppt	Be ≤ 10 ppt
Bi ≤ 10 ppt	Ca ≤ 20 ppt	Cd ≤ 10 ppt
Ce ≤ 10 ppt	Co ≤ 10 ppt	Cr ≤ 20 ppt
Cs ≤ 10 ppt	Hg ≤ 100 ppt	Cu ≤ 20 ppt
K ≤ 10 ppt	Dy ≤ 1 ppt	Mg ≤ 10 ppt
Er ≤ 1 ppt	Mn ≤ 10 ppt	Eu ≤ 1 ppt
Mo ≤ 10 ppt	Fe ≤ 20 ppt	Na ≤ 10 ppt
Ni ≤ 50 ppt	Pb ≤ 10 ppt	Sn ≤ 20 ppt
Sr ≤ 10 ppt	Ti ≤ 10 ppt	Tl ≤ 20 ppt
V ≤ 10 ppt	Zn ≤ 20 ppt	U ≤ 1 ppt
Th ≤ 1 ppt	Sb ≤ 20 ppt	Gd ≤ 1 ppt
Ga ≤ 10 ppt	Hf ≤ 10 ppt	Ho ≤ 1 ppt
In ≤ 1 ppt	La ≤ 1 ppt	Li ≤ 10 ppt
Lu ≤ 10 ppt	Nd ≤ 1 ppt	Nb ≤ 1 ppt
Pr ≤ 1 ppt	Re ≤ 10 ppt	Rh ≤ 10 ppt
Rb ≤ 10 ppt	Ru ≤ 10 ppt	Sm ≤ 1 ppt
Sc ≤ 10 ppt	Te ≤ 1 ppt	Tb ≤ 1 ppt
Tm ≤ 1 ppt	W ≤ 10 ppt	Yb ≤ 1 ppt
Y ≤ 1 ppt	Zr ≤ 10 ppt	

Code	Size	Packaging
403891	ml 500	Plastic bottle

For further information on above products, see following product/application section(s)  
Trace metal analysis (p. 86)

## Hydrochloric acid 32%

Acido cloridrico 32% - Acide chlorhydrique 32% - Acido clorhidrico 32%

### HCl

Atomic weight: 36,461  
CAS N: 7647-01-0  
EEC N: 231-595-7

### Transport classification

ONU n. 1789  
Transport class: 8  
Packaging group: II



R: 34-37  
S: 26-45

### Hydrochloric acid 32% - Analytical Grade

#### RPE-ISO-for analysis



Assay (acidimetric) >=32.0 %	Description Clear liquid	Colour (APHA) <=10
Density at 20° C 1.156 ± 1.162	Ammonium <=1 ppm	Bromide <=50 ppm
Free chlorine <=0.5 ppm	Phosphate <=0.5 ppm	Heavy metals (Pb) <=0.1 ppm
Residue on ignition <=5 ppm	Sulphate <=0.8 ppm	Sulphite <=0.5 ppm
Al <=0.05 ppm	As <=0.01 ppm	Ba <=0.1 ppm
Be <=0.02 ppm	Bi <=0.05 ppm	Ca <=0.5 ppm
Cd <=0.005 ppm	Co <=0.01 ppm	Cr <=0.02 ppm
Cu <=0.01 ppm	Fe <=0.1 ppm	Hg <=0.1 ppm
K <=0.1 ppm	Li <=0.02 ppm	Mg <=0.3 ppm
Mn <=0.01 ppm	Mo <=0.05 ppm	Na <=0.5 ppm
Ni <=0.02 ppm	Pb <=0.05 ppm	Sr <=0.02 ppm
Ti <=0.05 ppm	Tl <=0.05 ppm	V <=0.05 ppm
Zn <=0.05 ppm	Zr <=0.05 ppm	

Code	Size	Packaging
403981	ml 2500	Glass bottle
403982	kg 25	Plastic drum
403983	kg 30	Plastic drum
403986	kg 55	Plastic drum
403988	kg 220	Drum

### Hydrochloric acid 32% - Technical Grade

#### RE-Pure



Assay 32 + 34 %	Description Clear colourless liquid	Density at 20°C 1.160 ± 1.174
Free chlorine <=100 ppm	Metalli pesanti(Pb) <=50 ppm	Residue on ignition <=0.1 %
Sulphate <=200 ppm	Fe <=2 ppm	

Code	Size	Packaging
302601	ml 1000	Glass bottle
302602	kg 25	Plastic drum
302604	kg 30	Plastic drum
302607	kg 55	Plastic drum

For Kipp

## Hydrochloric acid 32% (20°Bé)

Acido cloridrico 32% (20°Bé) - Acide chlorhydrique 32% (20°Bé) - Acido clorhidrico 32% (20°Bé)

### HCl

Atomic weight: 36,461  
CAS N: 7647-01-0  
EEC N: 231-595-7

### Transport classification

ONU n. 1789  
Transport class: 8  
Packaging group: II



R: 34-37  
S: 26-45

### Hydrochloric acid 32% (20°Bé) - Technical Grade

#### RE-Pure



Assay (acidimetric) >=31.0 %	Description Yellow clear liquid	Density at 20° C >=1.160
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Code	Size	Packaging
302664	kg 25	Plastic drum
302666	kg 55	Plastic drum
302663	kg 220	Plastic container

## Hydrochloric acid 23%

Acido cloridrico 23% - Acide chlorhydrique 23% - Acido clorhidrico 23%

### HCl

Atomic weight: 36,461  
CAS N: 7647-01-0  
EEC N: 231-595-7

### Transport classification

ONU n. 1789  
Transport class: 8  
Packaging group: II



R: 36/37/38  
S: 26

### Hydrochloric acid 23% - Analytical Grade

## Hydrochloric acid 23% - Analytical Grade



## RPE-ISO-for analysis

Assay (acidimetric) >=23.0 %	Description Clear liquid	Colour (APHA) <=10
Density at 20° C 1.113 + 1.119	Ammonium <=1 ppm	Bromide <=50 ppm
Free chlorine <=0.5 ppm	Phosphate <=0.5 ppm	Heavy metals (Pb) <=0.1 ppm
Residue on ignition <=5 ppm	Sulphate <=0.8 ppm	Sulphite <=0.5 ppm
Al <=0.05 ppm	As <=0.01 ppm	Be <=0.02 ppm
Bi <=0.05 ppm	Ca <=0.5 ppm	Cd <=0.005 ppm
Co <=0.01 ppm	Cr <=0.02 ppm	Cu <=0.01 ppm
Fe <=0.1 ppm	Hg <=0.1 ppm	K <=0.1 ppm
Li <=0.02 ppm	Mg <=0.3 ppm	Mn <=0.03 ppm
Mo <=0.05 ppm	Na <=0.5 ppm	Ni <=0.02 ppm
Pb <=0.05 ppm	Sr <=0.02 ppm	Ti <=0.05 ppm
Tl <=0.05 ppm	V <=0.05 ppm	Zn <=0.05 ppm
Zr <=0.05 ppm		

Code	Size	Packaging
403901	ml 1000	Glass bottle
403905	ml 2500	Glass bottle
403909	kg 25	Plastic drum

## Hydrochloric acid 10%

Acido cloridrico 10% - Acide chlorhydrique 10% - Acido clorhidrico 10%

## HCl

Atomic weight: 36,461  
CAS N: 7647-01-0  
EEC N: 231-595-7

## Transport classification

ONU n. 1789  
Transport class: 8  
Packaging group: II



R: 36/37/38  
S: 26

## Hydrochloric acid 10% - Pharmaceutical Grade



## RPH-According to pharmacopoeia: Ph.Eur.

Assay (acidimetric) 9.5 + 10.5 %	Description Clear colourless liquid	Appearance Conform Ph.Eur.
Free chlorine <= 1 ppm	Sulphate <= 5 ppm	Heavy metals (Pb) <= 2 ppm
Residue on evaporation <= 100 ppm	Origin (BSE/TSE) Synthesis	Residual solvents (CPMP/ICH/283/95) Conform

Code	Size	Packaging
302591	g 10000	Plastic drum

## Hydrochloric acid 8%

Acido cloridrico 8% - Acide chlorhydrique 8% - Acido clorhidrico 8%

## HCl

Atomic weight: 36,461  
CAS N: 7647-01-0  
EEC N: 231-595-7

## Transport classification

ONU n. 1789  
Transport class: 8  
Packaging group: II

## Hydrochloric acid 8% - Analytical Grade



## RPE-For analysis

Assay (acidimetric) >=8 %	Description Clear colourless liquid	Density at 20° C 1.037 + 1.043
Ammonium <=30 ppm	Free chlorine <=0.5 ppm	Heavy metals (Pb) <=1 ppm
Sulphate <=1 ppm	Sulphite <=1 ppm	As <=0.01 ppm
Fe <=0.3 ppm		

Code	Size	Packaging
404033	g 10000	Plastic drum
404036	kg 55	Plastic drum

## Hydrochloric acid 1,128% (m/v)

Acido cloridrico 1,128% (m/v) - Acide chlorhydrique 1,128% (m/v) - Acido clorhidrico 1,128% (m/v)

## HCl

Atomic weight: 36,461  
CAS N: 7647-01-0  
EEC N: 231-595-7

## Transport classification

ONU n. 1789  
Transport class: 8  
Packaging group: II



R: 36/38  
S: 26

## Hydrochloric acid 1,128% (m/v) - Special Grade



## RS-For agroalimentary analysis

Assay 1.123 + 1.133 % m/v	Description Clear colourless liquid
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Code	Size	Packaging
502761	ml 1000	Plastic bottle

Ready-to-use solution

For further information on above products, see following product/application section(s)

Agriculture and food sector analyses (p. 25)

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Z**Hydrochloric Acid 6 mol/l***Acido cloridrico 6 mol/l - Acide chlorhydrique 6 mol/l - Acido clorhidrico 6 mol/l***HCl**Atomic weight: 36,461  
CAS N: 7647-01-0  
EEC N: 231-595-7**Transport classification**ONU n. 1789  
Transport class: 8  
Packaging group: IIR: 36/37/38  
S: 26**Hydrochloric Acid 6 mol/l - Analytical Grade****RPE-ACS-for analysis-Reag. Ph.Eur.-Reag. USP**

Assay (potentiometric) 5.9 + 6.1 mol/L

Code	Size	Packaging
528651	l 25	Plastic tank

**RPE-For analysis**

Assay 5.97 + 6.03 N Description Clear colourless liquid

Code	Size	Packaging
502832	l 18	Plastic tank

**Hydrochloric Acid 6 mol/l - Special Grade****RS-For agroalimentary analysis**

Assay 5.97 + 6.03 N Description Clear colourless liquid

Code	Size	Packaging
502831	ml 1000	Plastic bottle

218,76 g of HCl Ready-to-use solution

For further information on above products, see following product/application section(s)  
Agriculture and food sector analyses (p. 25)**Hydrochloric Acid 6 mol/l - Technical Grade****RE-Pure**

Assay 5.95 + 6.05 N Description Clear colourless liquid

Code	Size	Packaging
528550	ml 5000	Plastic tank

**Hydrochloric acid 5 mol/l***Acido cloridrico 5 mol/l - Acide chlorhydrique 5 mol/l - Acido clorhidrico 5 mol/l***Transport classification**ONU n. 1789  
Transport class: 8  
Packaging group: IIR: 36/37/38  
S: 26**Hydrochloric acid 5 mol/l - Analytical Grade****PA-PUREX-for analysis**

Assay (potentiometry) 4.995 - 5.005 N

Code	Size	Packaging
P3160015	ml 1000	Plastic bottle
P3160095	ml 5000	Plastic drum

**Hydrochloric acid 4 mol/l***Acido cloridrico 4 mol/l - Acide chlorhydrique 4 mol/l - Acido clorhidrico 4 mol/l***HCl**Atomic weight: 36,461  
CAS N: 7647-01-0  
EEC N: 231-595-7**Transport classification**ONU n. 1789  
Transport class: 8  
Packaging group: IIR: 36/37/38  
S: 26**Hydrochloric acid 4 mol/l - Special Grade****RS-For agroalimentary analysis**

Assay 3.992 + 4.008 N Description Clear colourless liquid

Code	Size	Packaging
502010	ml 1000	Plastic bottle

145,84 g of HCl. Ready-to-use solution

**Hydrochloric acid 3 mol/l***Acido cloridrico 3 mol/l - Acide chlorhydrique 3 mol/l - Acido clorhidrico 3 mol/l***HCl**Atomic weight: 36,461  
CAS N: 7647-01-0  
EEC N: 231-595-7**Transport classification**ONU n. 1789  
Transport class: 8  
Packaging group: IIR: 36/37/38  
S: 26**Hydrochloric acid 3 mol/l - Analytical Grade**

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Z

## Hydrochloric acid 3 mol/l - Analytical Grade

## RPE-For analysis



Assay 3.992 ± 4.008 N Description Clear colourless liquid

Code	Size	Packaging
502011	l 25	Plastic tank

## Hydrochloric acid 3 mol/l - Special Grade

## RS-For agroalimentary analysis



Assay 2.95 ± 3.05 N Description Clear colourless liquid

Code	Size	Packaging
502621	ml 1000	Plastic bottle

109,38 g of HCl Ready-to-use solution

For further information on above products, see following product/application section(s)  
Agriculture and food sector analyses (p. 25)

## Hydrochloric acid 2 mol/l

Acido cloridrico 2 mol/l - Acide chlorhydrique 2 mol/l - Acido clorhidrico 2 mol/l

## HCl

Atomic weight: 36,461  
CAS N: 7647-01-0  
EEC N: 231-595-7

## Transport classification

ONU n. 1789  
Transport class: 8  
Packaging group: II

## Hydrochloric acid 2 mol/l - Analytical Grade

## RPE-For analysis



Description Clear colourless liquid Titration factor 0.998 ± 1.002

Code	Size	Packaging
404067	ml 1000	Plastic bottle
404061	l 10	Kubidos

72,92 gr of HCl. Ready-to-use volumetric solution: 2 N

For further information on above products, see following product/application section(s)  
Volumetry (p. 92)

## Hydrochloric acid 1 mol/l

Acido cloridrico 1 mol/l - Acide chlorhydrique 1 mol/l - Acido clorhidrico 1 mol/l

## HCl

Atomic weight: 36,461  
CAS N: 7647-01-0  
EEC N: 231-595-7

## Transport classification

ONU n. 1789  
Transport class: 8  
Packaging group: II



R: 36/37/38  
S: 26

## Hydrochloric acid 1 mol/l - Analytical Grade

## PA-PUREX-for analysis



Assay (potentiometry) 0.999 - 1.001 N

Code	Size	Packaging
P3150015	ml 1000	Plastic bottle
P3150042	l 20	Plastic drum

## RPE-ACS-for analysis-Reag. Ph.Eur.-Reag. USP



Description Clear colourless liquid Titration factor 0.998 ± 1.002

Code	Size	Packaging
528582	ml 3000	Plastic tank
528581	l 10	Kubidos

## RPE-For analysis



Description Clear colourless liquid Titration factor 0.998 ± 1.002

Code	Size	Packaging
404097	ml 1000	Plastic bottle
404097	ml 1000	Plastic bottle
404091	l 10	Kubidos
404091	l 10	Kubidos

36,46 gr of HCl. Ready-to-use volumetric solution: 1 N

For further information on above products, see following product/application section(s)  
Volumetry (p. 92)

## RPE-For analysis-Superior



Description Clear colourless liquid Titration factor 0.999 ± 1.001

Code	Size	Packaging
404121	ml 1000	Plastic bottle

For further information on above products, see following product/application section(s)  
Volumetry (p. 92)

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Z**Hydrochloric acid 1 mol/l - Analytical Grade****RPE-NORMEX-for analysis**

Description Clear colourless liquid Titration factor 0.995 + 1.005

Code	Size	Packaging
404111	Ampoule	Plastic ampoule

36,46 gr of HCl. Concentrated volumetric solution to prepare 1 l of solution 1 N.

For further information on above products, see following product/application section(s)  
Volumetry (p. 92)**Hydrochloric acid 0.5 mol/l**

Acido cloridrico 0,5 mol/l - Acide chlorhydrique 0.5 mol/l - Acido clorhidrico 0.5 mol/l

HCl  
Atomic weight: 36,461  
CAS N: 7647-01-0  
EEC N: 231-595-7Transport classification  
ONU n. 1789  
Transport class: 8  
Packaging group: IIR: 36/37/38  
S: 26**Hydrochloric acid 0.5 mol/l - Analytical Grade****RPE-For analysis**

Description Clear colourless liquid Titration factor 0.998 + 1.002

Code	Size	Packaging
404147	ml 1000	Plastic bottle
404141	l 10	Kubidos

18,23 gr of HCl. Ready-to-use volumetric solution: 0,5 N

For further information on above products, see following product/application section(s)  
Volumetry (p. 92)**RPE-NORMEX-for analysis**

Description Clear colourless liquid Titration factor 0.995 + 1.005

Code	Size	Packaging
404161	Ampoule	Plastic ampoule

18,230 gr of HCl. Concentrated volumetric solution to prepare 1 l of solution 0,5 N.

For further information on above products, see following product/application section(s)  
Volumetry (p. 92)**Hydrochloric acid 0.24 mol/l**

Acido cloridrico 0,24 mol/l - Acide chlorhydrique 0,24 mol/l - Acido clorhidrico 0.24 mol/l

HCl  
Atomic weight: 36,461  
CAS N: 7647-01-0  
EEC N: 231-595-7Transport classification  
ONU n. 1789  
Transport class: 8.19  
Packaging group: III**Hydrochloric acid 0.24 mol/l - Analytical Grade****RPE-For analysis**

Code	Size	Packaging
526538	ml 1000	Glass bottle

**Hydrochloric Acid 0,2 mol/l**

Acido cloridrico 0,2 mol/l - Acide chlorhydrique 0,2 mol/l - Acido clorhidrico 0.2 mol/l

HCl  
Atomic weight: 36,461  
CAS N: 7647-01-0  
EEC N: 231-595-7Transport classification  
ONU n. 1789  
Transport class: 8  
Packaging group: II**Hydrochloric Acid 0,2 mol/l - Special Grade****RS-For agroalimentary analysis**

Assay 0.195 + 0.205 N Description Clear colourless liquid

Code	Size	Packaging
502631	ml 1000	Plastic bottle

7,292 g of HCl Ready-to-use volumetric solution

For further information on above products, see following product/application section(s)  
Agriculture and food sector analyses (p. 25)**Hydrochloric acid 0.1 mol/l**

Acido cloridrico 0,1 mol/l - Acide chlorhydrique 0.1 mol/l - Acido clorhidrico 0.1 mol/l

HCl  
Atomic weight: 36,461  
CAS N: 7647-01-0  
EEC N: 231-595-7Transport classification  
ONU n. 1789  
Transport class: 8  
Transport class: 8.19  
Packaging group: II  
Packaging group: III**Hydrochloric acid 0.1 mol/l - Analytical Grade**



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Y  
Z**Hydrochloric acid 0.1 mol/l - Analytical Grade****RPE-ACS-for analysis-Reag. Ph.Eur.-Reag. USP**

Code	Size	Packaging
528571	l 10	Kubidos

**RPE-For analysis**

Description Clear colourless liquid Titration factor 0.998 + 1.002

Code	Size	Packaging
404197	ml 1000	Plastic bottle
404197	ml 1000	Plastic bottle
404191	l 10	Kubidos
404191	l 10	Kubidos

3,646 gr of HCl. Ready-to-use volumetric solution: 0,1 N

For further information on above products, see following product/application section(s)

Volumetry (p. 92)

**RPE-For analysis-Superior**

Description Clear colourless liquid Titration factor 0.999 + 1.001

Code	Size	Packaging
404207	ml 1000	Plastic bottle

For further information on above products, see following product/application section(s)

Volumetry (p. 92)

**RPE-NORMEX-for analysis**

Description Clear colourless liquid Titration factor 0.995 + 1.005

Code	Size	Packaging
404211	Ampoule	Plastic ampoule

3,646 gr of HCl. Concentrated volumetric solution to prepare 1 l of solution 0,1 N.

For further information on above products, see following product/application section(s)

Volumetry (p. 92)

**Hydrochloric acid 0.01 mol/l**

Acido cloridrico 0,01 mol/l - Acide chlorhydrique 0,01 mol/l - Acido clorhidrico 0,01 mol/l

**HCl**Atomic weight: 36,461  
CAS N: 7647-01-0  
EEC N: 231-595-7**Transport classification**ONU n. 1789  
Transport class: 8  
Packaging group: II**Hydrochloric acid 0.01 mol/l - Analytical Grade****RPE-NORMEX-for analysis**

Description Clear colourless liquid Titration factor 0.995 + 1.005

Code	Size	Packaging
404251	Ampoule	Plastic ampoule

0,3646 gr of HCl. Concentrated volumetric solution to prepare 1 l of solution 0,01 N.

For further information on above products, see following product/application section(s)

Volumetry (p. 92)

**Hydrochloric acid-d 20%**

Acido cloridrico-d 20% - Acide chlorhydrique-d 20% - Acido clorhidrico-d 20%

**DCI**Atomic weight: 37,470  
CAS N: 7698-05-7  
EEC N: 231-715-8**Transport classification**ONU n. 1789  
Transport class: 8  
Packaging group: II**Hydrochloric acid-d 20% - Special Grade****RS-For NMR spectroscopy**

Code	Size	Packaging	Notes
P5685	ml 25	Glass bottle	Isotopic purity 99,80%

For further information on above products, see following product/application section(s)

NMR Spectroscopy (p. 65)

**Hydrochloric acid-d 1 mol/l**

Acido cloridrico-d 1 mol/l - Acide chlorhydrique-d 1 mol/l - Acido clorhidrico-d 1 mol/l

**DCI**Atomic weight: 37,470  
CAS N: 7698-05-7  
EEC N: 231-715-8**Transport classification**ONU n. 1789  
Transport class: 8  
Packaging group: II**Hydrochloric acid-d 1 mol/l - Special Grade****RS-For NMR spectroscopy**

Code	Size	Packaging	Notes
P5695	ml 25	Glass bottle	Isotopic purity 99,80%

For further information on above products, see following product/application section(s)

NMR Spectroscopy (p. 65)

## Hydrofluoric acid 50%

Acido fluoridrico 50% - Acide fluorhydrique 50% - Acido fluorhidrico 50%

HF

Atomic weight: 20,006  
CAS N: 7664-39-3  
EEC N: 231-634-8

Transport classification

ONU n. 1790

Transport class: 8

Transport class: 8.35

Secondary risk: 6.1

Packaging group: II

R: 26/27/28-35  
S: 7/9-26-36/37-45

## Hydrofluoric acid 50% - Analytical Grade

## RPE-ACS-ISO-for analysis



Assay (acidimetric) 49 ± 51 %	Description Clear liquid	Colour (APHA) <=10
Density at 20° C 1.152 ± 1.158	Hydrofluosilicic acid <=20 ppm	Chloride <=1 ppm
Phosphate <=0.5 ppm	Heavy metals (Pb) <=0.5 ppm	Residue on ignition <=5 ppm
Subst. reducing KMnO4 <=4 ppm	Sulphate <=2 ppm	Sulphite <=2 ppm
Ag <=0.02 ppm	Al <=0.05 ppm	As <=0.05 ppm
Ba <=0.1 ppm	Be <=0.02 ppm	Bi <=0.1 ppm
Ca <=0.5 ppm	Cd <=0.01 ppm	Co <=0.02 ppm
Cr <=0.05 ppm	Cu <=0.02 ppm	Fe <=0.2 ppm
K <=0.1 ppm	Li <=0.02 ppm	Mg <=0.2 ppm
Mn <=0.05 ppm	Mo <=0.05 ppm	Na <=0.5 ppm
Ni <=0.05 ppm	Pb <=0.2 ppm	Sr <=0.02 ppm
Ti <=0.1 ppm	Tl <=0.05 ppm	V <=0.05 ppm
Zn <=0.05 ppm	Zr <=0.1 ppm	

Code	Size	Packaging
405722	ml 1000	Plastic bottle
405728	ml 5000	Plastic bottle

## Hydrofluoric acid 50% - Special Grade

## RS-MOS For electronic use-ERBATRON



Assay (acidimetric) 49.0 ± 51.0 %	Description Clear colourless liquid	Colour (APHA) <=10
Density at 20° C 1.152 ± 1.158	Hydrofluosilicic acid <=20 ppm	Chloride <=1 ppm
Phosphate <=0.5 ppm	Heavy metals (Pb) <=0.1 ppm	Nitrate <=3 ppm
Residue on ignition <=5 ppm	Subst. reducing KMnO4 <=4 ppm	Sulphate <=1 ppm
Sulphite <=2 ppm	Ag <=0.02 ppm	Al <=0.05 ppm
As <=0.03 ppm	Au <=0.02 ppm	B <=0.02 ppm
Ba <=0.1 ppm	Be <=0.01 ppm	Bi <=0.02 ppm
Ca <=0.1 ppm	Cd <=0.01 ppm	Co <=0.01 ppm
Cr <=0.01 ppm	Cu <=0.01 ppm	Fe <=0.1 ppm
Ga <=0.02 ppm	In <=0.02 ppm	K <=0.1 ppm
Li <=0.02 ppm	Mg <=0.1 ppm	Mn <=0.01 ppm
Mo <=0.01 ppm	Na <=0.2 ppm	Ni <=0.01 ppm
Pb <=0.02 ppm	Pt <=0.02 ppm	Sb <=0.01 ppm
Sn <=0.02 ppm	Sr <=0.02 ppm	Ta <=0.1 ppm
Ti <=0.1 ppm	Tl <=0.02 ppm	V <=0.01 ppm
Zn <=0.05 ppm	Zr <=0.01 ppm	

Code	Size	Packaging
405653	ml 1000	Plastic bottle

## RS-RSE For electronic use-ERBATRON



Assay (acidimetric) 49.0 ± 51.0 %	Description Clear liquid	Colour (APHA) <=10
Density at 20° C ~ 1.17	Hydrofluosilicic acid <=20 ppm	Chloride <=1 ppm
Phosphate <=0.5 ppm	Heavy metals (Pb) <=0.1 ppm	Nitrate <=3 ppm
Residue on ignition <=5 ppm	Subst. reducing KMnO4 <=4 ppm	Sulphate <=1 ppm
Sulphite <=2 ppm	Ag <=0.02 ppm	Al <=0.05 ppm
As <=0.03 ppm	Au <=0.02 ppm	B <=0.02 ppm
Ba <=0.1 ppm	Be <=0.01 ppm	Bi <=0.02 ppm
Ca <=0.1 ppm	Cd <=0.01 ppm	Co <=0.01 ppm
Cr <=0.01 ppm	Cu <=0.01 ppm	Fe <=0.1 ppm
Ga <=0.02 ppm	In <=0.02 ppm	K <=0.1 ppm
Li <=0.02 ppm	Mg <=0.1 ppm	Mn <=0.01 ppm
Mo <=0.01 ppm	Na <=0.2 ppm	Ni <=0.05 ppm
Pb <=0.02 ppm	Pt <=0.02 ppm	Sb <=0.01 ppm
Sn <=0.02 ppm	Sr <=0.02 ppm	Ta <=0.1 ppm
Ti <=0.1 ppm	Tl <=0.02 ppm	V <=0.01 ppm
Zn <=0.05 ppm	Zr <=0.01 ppm	

Code	Size	Packaging
405737	ml 1000	Plastic bottle
405739	ml 5000	Plastic bottle
405754	kg 25	Polythene-metal drum

## Hydrofluoric acid 50% - Special Grade

## RS-Ultrapure-for trace analysis

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H

Assay 47 + 51 %	Description Clear liquid	Colour (APHA) <= 10
Al <= 20 ppt	Sb <= 20 ppt	As <= 50 ppt
Ba <= 10 ppt	Be <= 10 ppt	Bi <= 10 ppt
B <= 100 ppt	Cd <= 10 ppt	Ca <= 20 ppt
Ce <= 10 ppt	Cs <= 10 ppt	Cr <= 20 ppt
Co <= 10 ppt	Cu <= 20 ppt	Dy <= 1 ppt
Er <= 1 ppt	Eu <= 1 ppt	Gd <= 1 ppt
Ga <= 10 ppt	Ge <= 10 ppt	Au <= 20 ppt
Hf <= 10 ppt	Ho <= 1 ppt	In <= 1 ppt
Fe <= 20 ppt	La <= 10 ppt	Pb <= 10 ppt
Li <= 10 ppt	Lu <= 1 ppt	Mg <= 10 ppt
Mn <= 10 ppt	Hg <= 100 ppt	Mo <= 10 ppt
Nd <= 1 ppt	Ni <= 50 ppt	Nb <= 10 ppt
Pd <= 20 ppt	Pt <= 20 ppt	K <= 10 ppt
Pr <= 1 ppt	Re <= 10 ppt	Rh <= 20 ppt
Rb <= 20 ppt	Ru <= 20 ppt	Sm <= 1 ppt
Sc <= 10 ppt	Se <= 50 ppt	Ag <= 10 ppt
Na <= 10 ppt	Sr <= 10 ppt	Ta <= 20 ppt
Te <= 1 ppt	Tb <= 1 ppt	Tl <= 10 ppt
Th <= 1 ppt	Tm <= 1 ppt	Sn <= 20 ppt
Ti <= 50 ppt	W <= 20 ppt	U <= 1 ppt
V <= 10 ppt	Yb <= 1 ppt	Y <= 1 ppt
Zn <= 20 ppt	Zr <= 10 ppt	

Code	Size	Packaging
405611	ml 500	Plastic bottle

For further information on above products, see following product/application section(s)  
Trace metal analysis (p. 86)

## RS-VSLI For electronic use-ERBATRON

I  
J  
K

Code	Size	Packaging
527610	ml 2500	Glass bottle

## Hydrofluoric acid 47-51%

Acido fluoridrico 47-51% - Acide fluorhydrique 47-51% - Acido fluorhidrico 47-51%

HF  
Atomic weight: 20,006  
CAS N: 7664-39-3  
EEC N: 231-634-8

Transport classification  
ONU n. 1790  
Transport class: 8  
Secondary risk: 6.1  
Packaging group: II



R: 26/27/28-35  
S: 7/9-26-36/37-45

L  
M

## Hydrofluoric acid 47-51% - Special Grade

## RS-Superpure-for trace analysis

N  
O  
P

Code	Size	Packaging
405715	ml 500	Plastic bottle

For further information on above products, see following product/application section(s)  
Trace metal analysis (p. 86)

## Hydrofluoric acid 39.5%

Acido fluoridrico 39,5% - Acide fluorhydrique 39,5% - Acido fluorhidrico 39,5%

HF  
Atomic weight: 20,006  
CAS N: 7664-39-3  
EEC N: 231-634-8

Transport classification  
ONU n. 1790  
Transport class: 8  
Secondary risk: 6.1  
Packaging group: II



R: 26/27/28-35  
S: 7/9-26-36/37-45

Q  
R  
S

## Hydrofluoric acid 39.5% - Analytical Grade

## RPE-For analysis

T  
U  
V

Assay (acidimetric) 39.1 + 39.9 %	Description Clear colourless liquid	Density at 20° C 1.127 + 1.133
Hydrofluosilicic acid <= 20 ppm	Chloride <= 1 ppm	Phosphate <= 0.5 ppm
Heavy metals (Pb) <= 0.5 ppm	Residue on ignition <= 5 ppm	Subst. reducing KMnO4 <= 4 ppm
Sulphate <= 2 ppm	Sulphite <= 2 ppm	Ag <= 0.02 ppm
Al <= 0.05 ppm	As <= 0.05 ppm	Ba <= 0.1 ppm
Be <= 0.02 ppm	Bi <= 0.1 ppm	Ca <= 0.5 ppm
Cd <= 0.01 ppm	Co <= 0.02 ppm	Cr <= 0.05 ppm
Cu <= 0.02 ppm	Fe <= 0.2 ppm	K <= 0.1 ppm
Li <= 0.02 ppm	Mg <= 0.2 ppm	Mn <= 0.05 ppm
Mo <= 0.05 ppm	Na <= 0.5 ppm	Ni <= 0.02 ppm
Pb <= 0.05 ppm	Sr <= 0.02 ppm	Ti <= 0.1 ppm
Ti <= 0.05 ppm	V <= 0.05 ppm	Zn <= 0.05 ppm
Zr <= 0.1 ppm		

Code	Size	Packaging
405761	ml 1000	Plastic bottle
405765	ml 5000	Plastic bottle

W  
X  
Y

## Hydrofluoric acid 39.5% - Special Grade

Z

## Hydrofluoric acid 39.5% - Special Grade

## RS-RSE For electronic use-ERBATRON



Assay (acidimetric) 39.1 + 39.9 %	Description Clear colourless liquid	Density at 20° C 1.127 + 1.133
Hydrofluosilicic acid <= 20 ppm	Chloride <= 1 ppm	Phosphate <= 0.5 ppm
Heavy metals (Pb) <= 0.1 ppm	Residue on ignition <= 5 ppm	Subst. reducing KMnO4 <= 4 ppm
Sulphate <= 1 ppm	Sulphite <= 1 ppm	Ag <= 0.02 ppm
Al <= 0.05 ppm	As <= 0.03 ppm	Au <= 0.02 ppm
B <= 0.02 ppm	Ba <= 0.1 ppm	Be <= 0.01 ppm
Bi <= 0.02 ppm	Ca <= 0.1 ppm	Cd <= 0.01 ppm
Co <= 0.01 ppm	Cr <= 0.01 ppm	Cu <= 0.01 ppm
Fe <= 0.1 ppm	Ga <= 0.02 ppm	In <= 0.02 ppm
K <= 0.1 ppm	Li <= 0.02 ppm	Mg <= 0.1 ppm
Mn <= 0.01 ppm	Mo <= 0.01 ppm	Na <= 0.2 ppm
Ni <= 0.01 ppm	Pb <= 0.02 ppm	Pt <= 0.02 ppm
Sb <= 0.01 ppm	Sn <= 0.02 ppm	Sr <= 0.02 ppm
Ta <= 0.1 ppm	Ti <= 0.1 ppm	Tl <= 0.02 ppm
V <= 0.01 ppm	Zn <= 0.05 ppm	Zr <= 0.01 ppm

Code	Size	Packaging
405683	ml 5000	Plastic bottle

## Hydrofluoric acid 39.5% - Technical Grade

## RE-Pure



Assay (acidimetric) 38.0 + 39.9 %	Description Clear colourless liquid	Residue on ignition <= 0.5 %
Sulphate <= 1 %	Fe <= 500 ppm	

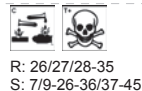
Code	Size	Packaging
303731	ml 1000	Plastic bottle
303733	kg 50	Polythene-metal drum

## Hydrofluoric acid diluted

Acido fluoridrico diluito - Acide fluorhydrique diluée - Acido fluorídrico diluido

HF  
Atomic weight: 20,006  
CAS N: 7664-39-3  
EEC N: 231-634-8

Transport classification  
ONU n. 2922  
Transport class: 8  
Secondary risk: 6.1  
Packaging group: II



## Hydrofluoric acid diluted - Analytical Grade

## RPE-For analysis



Assay 8.60 + 8.70 %	Description Clear colourless liquid
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Code	Size	Packaging
405775	ml 250	Bottle

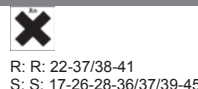
It contains hydrofluoric acid ~2%, hydrochloric acid ~5%. Reactivating solution

For further information on above products, see following product/application section(s)  
Buffers (p. 30)

## Hydrogen peroxide solution 40% m/v in water

H<sub>2</sub>O<sub>2</sub>  
Atomic weight: 34,015  
CAS N: 7722-84-1  
EEC N: 231-765-0

Transport classification  
ONU n. 2014  
Transport class: 5.1  
Secondary risk: 8  
Packaging group: II



## Hydrogen peroxide solution 40% m/v in water - Technical Grade

## RE-Pure



Assay (oxidimetric) >=39 % m/v	Description Clear colourless liquid	Density at 18° C 1.127 + 1.137
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Code	Size	Packaging
307705	ml 250	Bottle
307701	ml 1000	Plastic bottle
307708	ml 5000	Plastic bottle
307709	kg 60	Plastic drum
307707	kg 200	Drum

130 volumi. Stabilized.

## Hydrogen peroxide solution 30% m/m in water

H<sub>2</sub>O<sub>2</sub>  
Atomic weight: 34,015  
CAS N: 7722-84-1  
EEC N: 231-765-0

Transport classification  
ONU n. 2014  
Transport class: 5.1  
Transport class: 5.1+8  
Secondary risk: 8  
Packaging group: II



## Hydrogen peroxide solution 30% m/m in water - Analytical Grade

## Hydrogen peroxide solution 30% m/m in water - Analytical Grade

## RPE-ACS-ISO-for analysis-Reag. Ph.Eur.-Reag. USP



<b>Assay (oxidimetric) 29.0 + 31.0 % m/m</b>	Description Clear liquid	Colour (APHA) <=10
Density at 20° C 1.120+1.124	Organic stabilizers <=500 ppm	Residue on evaporation <=20 ppm
Acidity <=0.0006 meq/g	Chloride <=0.5 ppm	Nitrate <=2 ppm
Sulphate <=2 ppm	Phosphate <=2 ppm	Ammonium <=5 ppm
Heavy metals (Pb) <=1 ppm	Al <=0.5 ppm	As <=0.01 ppm
Ba <=0.05 ppm	Ca <=0.2 ppm	Cd <=0.01 ppm
Co <=0.01 ppm	Cr <=0.02 ppm	Cu <=0.01 ppm
Fe <=0.1 ppm	K <=0.1 ppm	Mg <=0.1 ppm
Mn <=0.01 ppm	Na <=0.5 ppm	Ni <=0.02 ppm
Pb <=0.02 ppm	Zn <=0.1 ppm	

Code	Size	Packaging
412071	ml 250	Plastic bottle
412072	ml 1000	Plastic bottle
412074	kg 25	Plastic drum
412076	kg 200	Polythene-metal drum

110 volumi. Stabilized

## Hydrogen peroxide solution 30% m/m in water - Special Grade

## RS-For agroalimentary analysis



<b>Assay 29.0 + 31.0 %</b>	Aspect Conform
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Code	Size	Packaging
502044	ml 5000	Plastic drum

Without phosphoric compounds

For further information on above products, see following product/application section(s)

Agriculture and food sector analyses (p. 25)

## RS-For microanalysis



Description Clear colourless liquid	Density at 18° C 1.120 + 1.124
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Code	Size	Packaging
412102	ml 250	Plastic bottle

110 volumi. Stabilized

## RS-MOS For electronic use-ERBATRON



<b>Assay (oxidimetric) 29.0 + 31.0 %</b>	Description Clear liquid	Colour (APHA) <=10
Density at 18° C 1.120 + 1.124	Residue on evaporation <=10 ppm	Acidity (H2SO4) <=20 ppm
Ammonium <=1 ppm	Chloride <=0.5 ppm	Phosphate <=1 ppm
Heavy metals (Pb) <=0.2 ppm	Nitrate <=2 ppm	Sulphate <=2 ppm
Ag <=0.02 ppm	Al <=0.1 ppm	As <=0.01 ppm
Au <=0.05 ppm	B <=0.02 ppm	Ba <=0.1 ppm
Be <=0.02 ppm	Bi <=0.02 ppm	Ca <=0.2 ppm
Cd <=0.01 ppm	Co <=0.01 ppm	Cr <=0.01 ppm
Cu <=0.01 ppm	Fe <=0.1 ppm	Ga <=0.02 ppm
In <=0.02 ppm	K <=0.1 ppm	Li <=0.01 ppm
Mg <=0.05 ppm	Mn <=0.01 ppm	Mo <=0.05 ppm
Na <=0.2 ppm	Ni <=0.01 ppm	Pb <=0.02 ppm
Pt <=0.05 ppm	Sb <=0.01 ppm	Sn <=0.25 ppm
Sr <=0.02 ppm	Ta <=0.1 ppm	Ti <=0.05 ppm
Tl <=0.05 ppm	V <=0.05 ppm	Zn <=0.05 ppm
Zr <=0.05 ppm		

Code	Size	Packaging
412081	ml 1000	Plastic bottle

111 volumi. Without inorganic stabilizer

## RS-RSE For electronic use-ERBATRON



<b>Assay (oxidimetric) 29 + 31 % m/m</b>	Description Clear liquid	Colour (APHA) <=10
Density at 20° C 1.120 + 1.124	Residue on evaporation <=5 ppm	Acidity (H2SO4) <=10 ppm
Ammonium <=1 ppm	Chloride <=0.2 ppm	Phosphate <=1 ppm
Heavy metals (Pb) <=0.2 ppm	Nitrate <=0.2 ppm	Sulphate <=0.2 ppm
Al <=0.1 ppm	As <=0.005 ppm	Ba <=0.005 ppm
Ca <=0.01 ppm	Cd <=0.005 ppm	Co <=0.005 ppm
Cr <=0.005 ppm	Cu <=0.005 ppm	Fe <=0.005 ppm
K <=0.01 ppm	Mg <=0.005 ppm	Mn <=0.005 ppm
Na <=0.015 ppm	Ni <=0.005 ppm	Pb <=0.005 ppm
Zn <=0.005 ppm		

Code	Size	Packaging
412161	ml 1000	Plastic bottle
412162	ml 5000	Plastic bottle
412163	kg 25	Plastic drum
412166	kg 200	Polythene-metal drum

111 volumi. Without inorganic stabilizer

## RS-Ultrapure-for trace analysis



Code	Size	Packaging
412051	ml 500	Plastic bottle

## Hydrogen peroxide solution 30% m/m in water - Special Grade

## RS-VSLI For electronic use-ERBATRON



Code	Size	Packaging
527621	ml 1000	Bottle
527620	ml 2500	Bottle

## Hydrogen peroxide solution 30% m/m in water - Pharmaceutical Grade

## RPH-According to pharmacopoeia: Ph.Eur.



Assay (oxidimetric)	Description	Acidity
29.0 + 31.0 %	Clear colourless liquid	Conform Ph.Eur.
Non volat.substances <= 2 g/l	Organic stabilizers <= 500 ppm	Origin (BSE/TSE) Synthesis
Residual solvents (CPMP/ICH/283/95) Conform		

Code	Size	Packaging
307685	kg 25	Plastic drum

## Hydrogen peroxide solution 6% in water

Perossido di idrogeno soluzione 6% in acqua - Eau oxygénée en solution à 6% dans l'eau - Hidrógeno peróxido solución 6% en agua

H<sub>2</sub>O<sub>2</sub>  
Atomic weight: 34,015  
CAS N: 7722-84-1  
EEC N: 231-765-0



R: 36/38  
S: 3-25-26-37

## Hydrogen peroxide solution 6% in water - Technical Grade

## RE-Pure



Assay (oxidimetric)	Description
5.75 + 6.25 %	Clear colourless liquid

Code	Size	Packaging
307641	l 10	Bottle

## Hydrogen peroxide solution 3.5% m/v in water

H<sub>2</sub>O<sub>2</sub>  
Atomic weight: 34,015  
CAS N: 7722-84-1  
EEC N: 231-765-0

## Hydrogen peroxide solution 3.5% m/v in water - Technical Grade

## RE-Pure



Assay (oxidimetric)	Description	Density at 20° C
3.45 + 3.75 % m/v	Clear colourless liquid	~ 1.015
Residue on evaporation <=0.2 %	Acidity (HCl) <=360 ppm	Fixative <=500 ppm
Heavy metals (Pb) <=5 ppm	As <=1 ppm	

Code	Size	Packaging
307661	ml 1000	Bottle
307667	kg 50	Drum

12 volumi. Stabilized

## Hydrogen peroxide solution 3% in water

Perossido di idrogeno soluzione 3% in acqua - Eau oxygénée en solution à 3% dans l'eau - Hidrógeno peróxido solución 3% en agua

H<sub>2</sub>O<sub>2</sub>  
Atomic weight: 34,015  
CAS N: 7722-84-1  
EEC N: 231-765-0

## Hydrogen peroxide solution 3% in water - Pharmaceutical Grade

## RPH-According to pharmacopoeia: Ph.Eur.-FU



Assay (oxidimetric)	Description	Acidity
2.5 + 3.5 %	Clear colourless liquid	Conform Ph.Eur.
Non volat.substances Conform Ph.Eur.	Organic stabilizers Conform Ph.Eur.	Origin (BSE/TSE) Synthesis

Code	Size	Packaging
307671	ml 1000	Bottle
307678	kg 50	Plastic drum
307678	kg 50	Plastic drum

## Hydrogen sulphide - water solution

Acido solfidrico - Sulfure d'hydrogène - Acido sulfidrico

H<sub>2</sub>S  
Atomic weight: 34,08  
CAS N: 7783-06-4  
EEC N: 231-977-3

Transport classification  
ONU n. 3264  
Transport class: 8  
Packaging group: III



R: 23  
S: 7/9-16-45

## Hydrogen sulphide - water solution - Analytical Grade

## Hydrogen sulphide - water solution - Analytical Grade



## RPE-For analysis

Assay (oxidimetric)  $\geq 0.25$  % Description Clear colourless liquid

Code	Size	Packaging
410221	ml 1000	Glass bottle

Saturated solution

## Hydroquinone

*Idrochinone - Hydroquinone - Hidroquinona***C<sub>6</sub>H<sub>6</sub>O<sub>2</sub>**Atomic weight: 110,11  
CAS N: 123-31-9  
EEC N: 204-617-8

Transport classification

ONU n. 2662  
ONU n. 2811  
Transport class: 6.1  
Packaging group: IIIR: 22-40-41-43-50  
S: 26-36/37/39-61

Synonyms

1,4-Dihydroxybenzène

## Hydroquinone - Analytical Grade



## RPE-For analysis

Assay (oxidimetric) $\geq 99$ %	Description White crystals	Melting point 168.2 + 171.8 ° C
Loss on drying $\leq 1$ %	Alkalinity (NH <sub>4</sub> OH) $\leq 17$ ppm	Water-insoluble matter $\leq 50$ ppm
Heavy metals (Pb) $\leq 5$ ppm	Catechol $\leq 200$ ppm	Residue on ignition $\leq 200$ ppm
Resorcinol $\leq 0.2$ %	Total sulphur $\leq 50$ ppm	Fe $\leq 5$ ppm

Code	Size	Packaging
455325	g 250	Plastic jar

## Hydroquinone - Technical Grade



## RE-Pure

Assay (oxidimetric) $\geq 99$ %	Description White crystals	Identification (I.R.) Conform
Melting point 170 + 175 ° C	Heavy metals (Pb) $\leq 10$ ppm	Resorcinol $\leq 0.1$ %
Fe $\leq 10$ ppm		

Code	Size	Packaging
348126	g 500	Plastic jar
348129	g 5000	Plastic jar
348124	kg 25	Carton drum

## p-Hydroxyazobenzene

*p-Idrossiazobenzene - p-Hydroxyazobenzène - p-Hidroxiazobenceno***C<sub>12</sub>H<sub>9</sub>N<sub>3</sub>O**Atomic weight: 198,23  
CAS N: 1689-82-3  
EEC N: 216-880-6R: 20/22  
S: 28

## p-Hydroxyazobenzene - Analytical Grade



## RPE-For analysis-C.I. 11800

Description Yellow powder	Suitability for anhydrous titration Conform	Melting point 154.0 + 157.0 ° C
Loss on drying $\leq 2$ %	Residue on ignition $\leq 0.5$ %	

Code	Size	Packaging
455442	g 10	Glass jar

Adsorption indicator

## p-Hydroxybenzaldehyde

*p-Ossibenzaldehyde - p-Hydroxybenzaldehyde - p-Oxibenzaldehydo***HOCC<sub>6</sub>H<sub>4</sub>CHO**Atomic weight: 122,12  
CAS N: 123-08-0  
EEC N: 204-599-1

## p-Hydroxybenzaldehyde - Technical Grade



## RE-Pure

Assay (acidimetric) $\geq 98$ %	Description White crystalline powder	Melting point 114 + 117 ° C
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Code	Size	Packaging
467254	g 100	Glass jar

## N-(2-Hydroxyethyl)-morpholine

*2-Morfolinetanol - 2-Morpholinoéthanol - 2-Morfolinoetanol***CH<sub>2</sub>CH<sub>2</sub>OCH<sub>2</sub>CH<sub>2</sub>N(CH<sub>2</sub>)<sub>2</sub>CH<sub>2</sub>OH**Atomic weight: 131,18  
CAS N: 622-40-2  
EEC N: 210-734-5

R: 36/38

## N-(2-Hydroxyethyl)-morpholine - Analytical Grade

## N-(2-Hydroxyethyl)-morpholine - Analytical Grade

## RPE-For analysis



Assay (GLC) 99 + 100 %	Description Clear colourless liquid	Density at 20° C 1.069 ± 1.073
Refractive index at 20° 1.4750 ± 1.4810	Boiling point 226.0 ± 228.0 ° C	Residue on ignition ≤100 ppm

Code	Size	Packaging
467501	ml 250	Glass bottle

## N-(2-Hydroxyethyl)piperidine

2-Piperidinietanolo - 2-Pipéridinoéthanol - 2-Piparaidinoetanol

**CH<sub>2</sub>(CH<sub>2</sub>)<sub>4</sub>NCH<sub>2</sub>CH<sub>2</sub>OH**  
Atomic weight: 129.21  
CAS N: 3040-44-6  
EEC N: 221-244-6

**Transport classification**  
ONU n. 3267  
Transport class: 8  
Packaging group: III



R: 20/22  
S: 23-27

## N-(2-Hydroxyethyl)piperidine - Analytical Grade

## RPE-For analysis



Assay (GLC) 99 + 100 %	Description Clear colourless liquid	Density at 20° C 0.974 ± 0.978
Refractive index at 20° 1.4719 ± 1.4779	Boiling point 200.0 ± 202.0 ° C	Water (K.F.) ≤0.1 %
Residue on ignition ≤100 ppm		

Code	Size	Packaging
467521	ml 250	Glass bottle

## Hydroxylamine hydrochloride

Idrossilammina cloridrato - Hydroxylamine chlorhydraté - Hidroxilamina clorhidrato

**NH<sub>2</sub>OH.HCl**  
Atomic weight: 69.491  
CAS N: 5470-11-1  
EEC N: 226-798-2

**Transport classification**  
ONU n. 3077  
ONU n. 3260  
Transport class: 8  
Transport class: 9  
Packaging group: III



R: R: 22-36/38-43-48/22-50  
S: S: (2-)22-24-37-61

## Hydroxylamine hydrochloride - Analytical Grade

## PA-PUREX-for analysis



Code	Size	Packaging
P1630505	g 250	Plastic jar
P1630527	g 5000	Plastic jar

## RPE-ACS-for analysis-Reag. Ph.Eur.-Reag. USP



Assay (oxidimetric) > 96.0 %	Description White crystals	Appear. of alcohol sol. Conform
Free acidity ≤ 0.25 meq/g	Ammonium Conform	Heavy metals (Pb) < 5 ppm
Fe < 5 ppm	Residue on ignition < 0.05 %	Sulfur compounds < 0.005 %

Code	Size	Packaging
455474	g 100	Glass jar
455476	g 500	Plastic jar
455477	g 1000	Plastic jar

## RPE-For analysis



Assay (oxidimetric) ≥99 %	Description White crystalline powder	Hg ≤0.05 ppm
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Code	Size	Packaging
455461	g 100	Glass jar

Low content of Hg.

For further information on above products, see following product/application section(s)  
Special products for environmental analysis (p. 81)

## Hydroxylamine hydrochloride - Technical Grade

## RE-Pure



Assay (oxidimetric) ≥96 %	Description White crystalline powder	Alcohol solubility complete
Acidity (HCl) ≤0.9 %	Ammonium ≤0.1 %	Heavy metals (Pb) ≤20 ppm
Residue on ignition ≤500 ppm	Fe ≤20 ppm	

Code	Size	Packaging
348307	g 1000	Plastic jar
348303	kg 25	Fibre drum

## Hydroxylamine sulphate

Idrossilammina solfato - Hydroxylamine sulfate - Hidroxilamonio sulfato

**(NH<sub>2</sub>OH)<sub>2</sub>·H<sub>2</sub>SO<sub>4</sub>**  
Atomic weight: 164.14  
CAS N: 10039-54-0  
EEC N: 233-118-8

**Transport classification**  
ONU n. 2865  
Transport class: 8  
Packaging group: III



R: 22-36/38-43-48/22-50  
S: 22-34-37-61

## Hydroxylamine sulphate - Analytical Grade



## Hydroxylamine sulphate - Analytical Grade

## PA-PUREX-for analysis

sds

Code	Size	Packaging
P9700544	kg 25	Fibre drum

## RPE-For analysis

CARLO ERBA  
Quality since 1928

Assay (oxidimetric) $\geq 99$ %	Description White crystals	Ammonium $\leq 0.1$ %
Chloride $\leq 10$ ppm	Water-insoluble matter $\leq 50$ ppm	Heavy metals (Pb) $\leq 10$ ppm
Residue on ignition $\leq 200$ ppm	As $\leq 5$ ppm	Fe $\leq 5$ ppm

Code	Size	Packaging
455525	g 250	Plastic jar
455527	g 1000	Plastic jar
455523	kg 25	Fibre drum

## 8-Hydroxyquinoline

8-Ossichinolina - 8-Hydroxyquinoléine - 8-Oxiquinoleina

**HOC<sub>8</sub>H<sub>8</sub>N:CHCH:CH**  
 Atomic weight: 145,16  
 CAS N: 148-24-3  
 EEC N: 205-711-1



R: 20/21/22  
 S: 13

## 8-Hydroxyquinoline - Analytical Grade

## RPE-ACS-for analysis

CARLO ERBA  
Quality since 1928

Description White powder	Suitab.for Mg determ. Conform	Melting point 72.5 + 74.0 °C
Alcohol-insolub. matter $\leq 500$ ppm	Residue on ignition $\leq 500$ ppm	Sulphate $\leq 200$ ppm

Code	Size	Packaging
467353	g 50	Glass bottle
467355	g 250	Plastic jar

For the analysis of trace metals

For further information on above products, see following product/application section(s)  
 Chromatography (p. 34)

## Hypophosphorous acid 50%

Acido ipofosforoso 50% - Acide hypophosphoreux 50% - Acido hipofosforoso 50%

**H<sub>3</sub>PO<sub>2</sub>**  
 Atomic weight: 66,04  
 CAS N: 6303-21-5  
 EEC N: 228-601-5

Transport classification  
 ONU n. 3264  
 Transport class: 8  
 Packaging group: III



R: 34  
 S: 26-36/37-39-45

## Hypophosphorous acid 50% - Analytical Grade

## RPE-For analysis

CARLO ERBA  
Quality since 1928

Assay (acidimetric) $\geq 49.5$ %	Description Yellow colourless liquid	Density at 20° C 1.203 + 1.209
Phosphoric-phosorus ac $\leq 1$ %	Heavy metals (Pb) $\leq 10$ ppm	Total sulphur $\leq 500$ ppm
Ba $\leq 50$ ppm	Ca $\leq 50$ ppm	Fe $\leq 50$ ppm

Code	Size	Packaging
406961	ml 100	Glass bottle
406962	ml 1000	Glass bottle
406964	kg 30	Plastic drum

## Idrimeter Erba Indicator A

Idrimeter Erba Soluzione A - Idrimeter Erba Solution A - Idrimeter Erba Solución A

## Idrimeter Erba Indicator A - Analytical Grade

## RPE-For analysis

CARLO ERBA  
Quality since 1928

Description Clear colourless liquid	Titration factor 0.998 + 1.002
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Code	Size	Packaging
455256	ml 500	Bottle
455257	ml 1000	Bottle

For the analysis of water hardness 1 ml = 1 mg CaCO<sub>3</sub>.

## Idrimeter Erba Indicator B

Idrimeter Erba Soluzione B - Idrimeter Erba Solution B - Idrimeter Erba Solución B

## Idrimeter Erba Indicator B - Analytical Grade

## RPE-For analysis

CARLO ERBA  
Quality since 1928

Description Clear colourless liquid	pH at 20° C 9.8 + 10.2
-------------------------------------	------------------------

Code	Size	Packaging
455266	ml 500	Bottle
455267	ml 1000	Bottle

For the analysis of water hardness. Buffer at pH10.

## Idrimer Erba Indicator C

Idrimer Erba Indicatore C - Idrimer Erba Indicateur C - Idrimer Erba Indicador C

### Idrimer Erba Indicator C - Analytical Grade

#### RPE-For analysis



Description Violet granular powder

Code	Size	Packaging
455271	g 10	Bottle
455274	g 100	Bottle

For the analysis of water hardness. Indicator for Idrimer.

## Imidazole

Imidazolo - Imidazole - Imidazol

**CaH<sub>4</sub>N<sub>2</sub>**

Atomic weight: 68,078

CAS N: 288-32-4

EEC N: 206-019-2

**Transport classification**

ONU n. 1759

Transport class: 8

Packaging group: III



R: 22-34  
S: 22-26-36/37/39-45

### Imidazole - Special Grade

#### RS-For microanalysis



Description White crystals C >=52.93 % H >=5.92 %  
N >=41.15 %

Code	Size	Packaging
445551	g 2	Glass bottle

## Indicator for ammoniacal nitrogen solution

Indicatore per azoto ammoniacale soluzione - Indicateur pour l'azote ammoniacal - Indicador para nitrógeno amoniacal solución

**Transport classification**

ONU n. 1993

Transport class: 3

Packaging group: II



R: 11  
S: 7-16-26

### Indicator for ammoniacal nitrogen solution - Analytical Grade

#### RPE-For analysis



Description Dark green liquid pH range 4.4 - 6.0

Code	Size	Packaging
455651	ml 250	Bottle

Indicator (pH 4.4+6.0).

## Indicator for iodometry

Indicatore per iodometria - Indicateur pour iodometrie - Indicador para yodometria

### Indicator for iodometry - Analytical Grade

#### RPE-Powder-for analysis



Description White powder

Code	Size	Packaging
455621	g 250	Plastic jar

## Indicator papers in rolls

Cartine indicatrici di pH in rotoli - Papier indicateur en rouleaux - Papelito indicador de pH en rollos

### Indicator papers in rolls - Special Grade

#### RS-Supplied in a 10 rolls dispenser-box



Description Dispens cartine 10 rotol pH sensitivity <=1

Code	Size	Packaging
435351	Rouleau	Dispenser

It contains the following 10 rolls: n.2 pH 1.0-11.0 n.1 pH 0.5-5.5 n.1 pH 3.8-5.8 n.1 pH 5.4-7.0 n.1 pH 5.5-9.0 n.1 pH 6.4-8.0 n.1 pH 8.0-10.0 n.1 pH 9.0-13.0 n.1 pH 12.0-14.0.

For further information on above products, see following product/application section(s)

Indicators (p. 50)

## Indicator papers in rolls - Special Grade

## RS-Supplied in dispenser-roll



Description		Cartine indicatr rotolo		pH sensitivity <=1	
Code	Size	Packaging	Notes		
435131	Rouleau	Dispenser	Three-color pH paper, pH range 1.0 - 11.0, pH sensitivity 1,0		
435140	Rouleau	Dispenser	One-color pH paper, pH range 1.0 - 11.0, pH sensitivity 1,0		
435150	Rouleau	Dispenser	One-color pH paper, pH range 1.0 - 14.0, pH sensitivity 1,0/2,0		
435161	Rouleau	Dispenser	One-color pH paper, pH range 3.8 - 5.8, pH sensitivity 0.2/0.3		
435171	Rouleau	Dispenser	One-color pH paper, pH range 5.4 - 7.0, pH sensitivity 0.2/0.3		
435201	Rouleau	Dispenser	Tritest		
435421	Rouleau	Dispenser	One-color pH paper, pH range 0.5 - 5.5, pH sensitivity 0,5		
435431	Rouleau	Dispenser	One-color pH paper, pH range 4.0 - 7.0, pH sensitivity 0,3		
435441	Rouleau	Dispenser	One-color pH paper, pH range 6.4 - 8.0, pH sensitivity 0,2		
435451	Rouleau	Dispenser	One-color pH paper, pH range 7.2 - 9.7, pH sensitivity 0,3		
435461	Rouleau	Dispenser	One-color pH paper, pH range 8.0 - 10.0, pH sensitivity 0.2/0.3		
435471	Rouleau	Dispenser	One-color pH paper, pH range 9.0 - 13.0, pH sensitivity 0,5		
435481	Rouleau	Dispenser	One-color pH paper, pH range 12.0 - 14.0, pH sensitivity 0,5		
435511	Rouleau	Dispenser	One-color pH paper, pH range 5.5 - 9.0, pH sensitivity 0,5		

Size roll: length 5 m; width 5 mm

For further information on above products, see following product/application section(s)

Indicators (p. 50)

## Indicator papers in rolls (Litmus)

Cartine tornasole in rotoli - Papier tournesol en rouleaux - Papelito tornasol en rollos

## Indicator papers in rolls (Litmus) - Special Grade

## RS-Supplied in dispenser-roll



Description		Cartina blu		Colour change blue red	
Code	Size	Packaging	Notes		
435260	Rouleau	Roll	Litmus blue, Colour change: blue→red, pH change 8.0 - 5.1		
435300	Rouleau	Roll	Litmus neutral, Colour change: red←violet→blue, pH change 5.0 - 8.1		
435340	Rouleau	Roll	Litmus red, Colour change: red→blue, pH change 5.0 - 8.1		

Size roll: length 5 m; width 5 mm. The color becomes red in acid condition, blue in alkaline condition.

For further information on above products, see following product/application section(s)

Indicators (p. 50)

## Indicator papers in stripes

Cartine indicatrici in strisce - Papier indicateur en bandelettes - Papelito indicador de pH en tiras

## Indicator papers in stripes - Special Grade

## RS-High sensitivity-Integrated chromatic scale



Description		Cartine indicatr strisce		pH sensitivity <=1	
Code	Size	Packaging	Notes		
435491	Bandelettes	Tube	pH range 1.0 - 12.0, Sensitivity 1,0		
435492	Bandelettes	Tube	pH range 0.0 - 1.8, Sensitivity 0,2/0,3		
435493	Bandelettes	Tube	pH range 1.0 - 2.8, Sensitivity 0,2/0,3		
435494	Bandelettes	Tube	pH range 1.8 - 3.8, Sensitivity 0,2/0,3		
435495	Bandelettes	Tube	pH range 2.8 - 4.6, Sensitivity 0,2/0,3		
435496	Bandelettes	Tube	pH range 3.8 - 5.5, Sensitivity 0,2/0,3		
435497	Bandelettes	Tube	pH range 5.2 - 6.8, Sensitivity 0,2/0,3		
435498	Bandelettes	Tube	pH range 6.0 - 8.1, Sensitivity 0,2/0,3		
435501	Bandelettes	Tube	pH range 7.2 - 8.8, Sensitivity 0,2/0,3		
435502	Bandelettes	Tube	pH range 8.0 - 9.7, Sensitivity 0,2/0,3		
435503	Bandelettes	Tube	pH range 9.5 - 12.0, Sensitivity 0,5		
435504	Bandelettes	Tube	pH range 10.5 - 13.0, Sensitivity 0,5		
435505	Bandelettes	Tube	pH range 12.0 - 14.0, Sensitivity 0,5		
435652	Bandelettes	Tube	pH range 4.0 - 9.0, Sensitivity 0,5		

For further information on above products, see following product/application section(s)

Indicators (p. 50)

## Indicator papers in stripes - Special Grade

## RS-Indelibles-with colour scale



Description Cartine indicatr strisce pH sensitivity &lt;=1

Code	Size	Packaging	Notes
435121	100 bandelettes	Tube	pH range 0.0 - 14.0, Sensitivity 1.0
435642	100 bandelettes	Tube	pH range 0.0 - 6.0, Sensitivity 0.5
435643	100 bandelettes	Tube	pH range 2.0 - 9.0, Sensitivity 0.5
435644	100 bandelettes	Tube	pH range 4.5 - 10.0, Sensitivity 0.5
435645	100 bandelettes	Tube	pH range 7.0 - 14.0, Sensitivity 0.3/0.4
435646	100 bandelettes	Tube	pH range 0.3 - 2.3, Sensitivity 0.3
435647	100 bandelettes	Tube	pH range 1.7 - 3.8, Sensitivity 0.3/0.5
435648	100 bandelettes	Tube	pH range 3.6 - 6.1, Sensitivity 0.3
435649	100 bandelettes	Tube	pH range 5.1 - 7.2, Sensitivity 0.3/0.4
435650	100 bandelettes	Tube	pH range 6.0 - 7.7, Sensitivity 0.2/0.4
435651	100 bandelettes	Tube	pH range 7.5 - 9.5, Sensitivity 0.2/0.4

Box of 100 strips

For further information on above products, see following product/application section(s)  
Indicators (p. 50)

## Indicator papers special in rolls

Cartine indicatrici speciali in rotoli - Papier indicateur spécial en rouleaux - Papelito indicador special de pH en rollos

## Indicator papers special in rolls - Special Grade

## RS-Supplied in dispenser-roll



Description Cartine indicatr rotolo

Code	Size	Packaging	Notes
434980	Rouleau	Roll	Starch iodide indicator paper, Colour change: white -->Bleu-violet
435020	Rouleau	Roll	Curcuma indicator paper, Colour change: yellow-->red
435060	Rouleau	Roll	Phenolphthalein indicator paper, Colour change: white-->red, pH change 8.3-->10.1
435180	Rouleau	Roll	Lead acetate indicator paper, Colour change: white-->brown/black
435220	Rouleau	Roll	Congo red indicator paper, Colour change: red-->Bleu, pH change 5.0-->3.1

Size roll: length 5 m; width 5 mm

For further information on above products, see following product/application section(s)  
Indicators (p. 50)

## Indicator universal pH 0-5 hydroalcoholic solution

Transport classification  
ONU n. 1993  
Transport class: 3  
Packaging group: II



R: 11-21/22  
S: 7-16

## Indicator universal pH 0-5 hydroalcoholic solution - Analytical Grade

## RPE-For analysis



Description Dark green liquid Functionality Conform

Code	Size	Packaging	Notes
455661	ml 25	Bottle	pH range 0 - 5
455662	ml 500	Bottle	pH range 0 - 5

With color reference chart

For further information on above products, see following product/application section(s)  
Indicators (p. 50)

## Indicator universal pH 1-11 hydroalcoholic solution

Transport classification  
ONU n. 1993  
Transport class: 3.B.106BIS  
Packaging group: II



R: 21/22  
S: 7-16

## Indicator universal pH 1-11 hydroalcoholic solution - Analytical Grade

## RPE-For analysis



Description Dark green liquid Functionality Conform

Code	Size	Packaging	Notes
455702	ml 25	Bottle	pH range 1 -11
455706	ml 500	Bottle	pH range 1 -11

With color reference chart

For further information on above products, see following product/application section(s)  
Indicators (p. 50)

## Indicator universal pH 1-11 water solution



R: 21/22  
S: 7-24

## Indicator universal pH 1-11 water solution - Analytical Grade

## Indicator universal pH 1-11 water solution - Analytical Grade



## RPE-For analysis

Description Dark green liquid Functionality Conform

Code	Size	Packaging	Notes
455711	ml 25	Bottle	pH range 1 -11
455712	ml 500	Bottle	pH range 1 -11

With color reference chart

For further information on above products, see following product/application section(s)

Indicators (p. 50)

## Indicator universal pH 4-10 hydroalcoholic solution

Transport classification  
 ONU n. 1993  
 Transport class: 3  
 Packaging group: II



R: 11-21/22  
 S: 7-16

## Indicator universal pH 4-10 hydroalcoholic solution - Analytical Grade



## RPE-For analysis

Description Red liquid Functionality Conform

Code	Size	Packaging	Notes
455671	ml 25	Bottle	pH range 4 - 10
455672	ml 500	Bottle	pH range 4 - 10

With color reference chart

For further information on above products, see following product/application section(s)

Indicators (p. 50)

## Indicator universal pH 9-13 hydroalcoholic solution

Transport classification  
 ONU n. 1993  
 Transport class: 3  
 Packaging group: II



R: 11-21/22  
 S: 7-24

## Indicator universal pH 9-13 hydroalcoholic solution - Analytical Grade



## RPE-For analysis

Description Yellow liquid Functionality Conform

Code	Size	Packaging	Notes
455641	ml 25	Bottle	pH range 9 -13
455642	ml 500	Bottle	pH range 9 -13

With color reference chart

For further information on above products, see following product/application section(s)

Indicators (p. 50)

## Indigo carmine

Carminio indaco - Carmin d'indigo - Carmin de indigo

$C_{16}H_8N_2Na_2O_6S_2$   
 CAS N: 860-22-0



R: 20/21/22-36/37/38  
 S: 22-26-36/37/39-45

## Indigo carmine - Technical Grade



## RE-Pure

Assay 89.5 + 90.5 %	Description Polvere blu	As <= 3 ppm
Pb <= 10 ppm	Hg <= 1 ppm	Cd <= 1 ppm
Heavy metals (Pb) <= 40 ppm	Water-insoluble matter <= 0.2 %	Ether extractable matter <= 0.2 %
Free aromatic amines <= 100 ppm	Synthetic intermediates <= 0.5 %	

Code	Size	Packaging
348331	g 1000	Glass jar

## Indigo carmine dried

Carminio indaco secco - Carmin d'indigo sec - Carmin de indigo seco

$C_{16}H_8N_2Na_2O_6S_2$   
 Atomic weight: 466,36  
 CAS N: 860-22-0  
 EEC N: 212-728-8



R: 20/21/22-36/37/38  
 S: 22-26-36/37/39-45

## Indigo carmine dried - Analytical Grade

## Indigo carmine dried - Analytical Grade

## RPE-For analysis-C.I. 73015



Assay  $\geq 85\%$  Description Polvere blu viola Colour change ( blue - yellow)

Code	Size	Packaging
434932	g 25	Glass jar

Stain for Microscopy (bacteriology-hystology). Indicator (pH 11,6+14,0).

For further information on above products, see following product/application section(s)  
Indicators (p. 50)

## Indigo solution 1.5% in sulphuric acid

Indaco soluzione 1,5% in acido solforico - Indigo en solution à 1,5% dans l'acide sulfurique - Indigo solución 1,5% en ácido sulfúrico

$C_{16}H_{16}N_2O_2$   
CAS N: 482-89-3  
EEC N: 207-586-9

Transport classification  
ONU n. 3264  
Transport class: 8  
Packaging group: II



R: 36/38  
S: 26

## Indigo solution 1.5% in sulphuric acid - Analytical Grade

## RPE-For analysis



Description Blue liquid Density at 15° C  $\geq 1.057$

Code	Size	Packaging
455601	ml 500	Bottle

## Indium

Indio - Indium - Indio

In Transport classification

ONU n. 3264



R: 34  
S: 26-36/37/39-45

## Indium - Special Grade

## RS-Standard solution for ICP



Code	Size	Packaging	Notes
503651	ml 100	Plastic bottle	Matrice: Nitric acid, conc. 1.000 ppm
503655	ml 100	Plastic bottle	Matrice: Nitric acid, conc. 10.000 ppm
503653	ml 500	Plastic bottle	Matrice: Nitric acid, conc. 1.000 ppm
503657	ml 500	Plastic bottle	Matrice: Nitric acid, conc. 10.000 ppm

Provided with real batch certificate. Verified against NIST Standard Reference

For further information on above products, see following product/application section(s)  
Trace metal analysis (p. 86)

## RS-Standard solution for ICP-MS



Code	Size	Packaging	Notes
505661	ml 50	Plastic bottle	Matrice: Nitric acid, conc. 10 ppm
505662	ml 100	Plastic bottle	Matrice: Nitric acid, conc. 10 ppm
505665	ml 100	Plastic bottle	Matrice: Nitric acid, conc. 100 ppm

For further information on above products, see following product/application section(s)  
Trace metal analysis (p. 86)

## Indole

Indolo - Indole - Indol

$C_8H_7N$   
Atomic weight: 117,15  
CAS N: 120-72-9  
EEC N: 204-420-7



Synonymes  
Benzopyrrole

R: 20/21/22-26/37/38  
S: 22-24/25

## Indole - Analytical Grade

## RPE-For analysis



Assay (spectrophotom.)  $\geq 99\%$  Description White powder or flakes Melting point 51,5 + 53,5 ° C  
Total chlorine  $\leq 20$  ppm Heavy metals (Pb)  $\leq 10$  ppm Residue on ignition  $\leq 0,1\%$   
Total sulphur  $\leq 40$  ppm Fe  $\leq 10$  ppm

Code	Size	Packaging
455801	g 10	Glass jar

## Indophenol blue

Blu indofenolo - Bleu indophéno - Azul indofenol

$C_{16}H_{16}N_2O$   
Atomic weight: 276,34  
CAS N: 132-31-0  
EEC N: 205-056-1

Transport classification  
ONU n. 3143  
Transport class: 6.1  
Packaging group: III



R: 20/21/22

## Indophenol blue - Special Grade

## Indophenol blue - Special Grade

## RS-For microscopy-C.I. 49700



Description Brown powder

Code	Size	Packaging
428881	g 1	Glass bottle

Stain for Microscopy.

## Inositol

Inositolo - Inositol - Inosita

CHOH(CHOH)<sub>4</sub>CHOH

Atomic weight: 180,16

CAS N: 87-89-8

EEC N: 201-781-2

Synonyms

Cyclohexital

Mesoinositol

## Inositol - Analytical Grade

## RPE-For analysis



Assay (gravimetric) &gt;=99 %

Description White crystalline powder

Albumin Conform

Dextrine Conform

Melting point 221.6 ÷ 226.4 ° C

pH sol. 5% at 25° C 5.0 + 7.0

Loss on drying &lt;=0.2 %

Chloride &lt;=50 ppm

Phosphate &lt;=10 ppm

Heavy metals (Pb) &lt;=25 ppm

Residue on ignition &lt;=0.1 %

Sulphate &lt;=50 ppm

Red.ing sugars(Glucose) &lt;=0.1 %

Ba &lt;=150 ppm

Ca &lt;=50 ppm

Fe &lt;=5 ppm

Code	Size	Packaging
455853	g 50	Glass jar

For biochemistry

## Inositol - Technical Grade

## RE-Pure



Description White powder

Loss on drying &lt;=0.2 %

Sulphated ash &lt;=0.1 %

Chloride &lt;=100 ppm

Heavy metals (Pb) &lt;=40 ppm

Sulphate &lt;=150 ppm

Fe &lt;=10 ppm

Code	Size	Packaging
348354	g 100	Plastic jar

## Inulin

Inulina - Inuline - Inulina

(C<sub>6</sub>H<sub>10</sub>O<sub>5</sub>)<sub>n</sub>.nH<sub>2</sub>O

CAS N: 9005-80-5

EEC N: 232-684-3

## Inulin - Analytical Grade

## RPE-For analysis



Description White crystalline powder

Specific optical rotation on dry -36 ÷ -40 °

Loss on drying &lt;=10 %

Residue on ignition &lt;=0.1 %

Chloride &lt;=50 ppm

Sulphate &lt;=50 ppm

Heavy metals (Pb) &lt;=10 ppm

Fe &lt;=10 ppm

Code	Size	Packaging
455901	g 10	Glass jar

For biochemistry

## Iodide

Ioduri - Iodure - Yoduri

## Iodide - Special Grade

## RS-Standard solution for ion chromatography



Code	Size	Packaging	Notes
503260	ml 50	Plastic bottle	conc. 1.000 ppm
503261	ml 100	Plastic bottle	conc. 1.000 ppm
503262	ml 250	Plastic bottle	conc. 1.000 ppm
503263	ml 500	Plastic bottle	conc. 1.000 ppm

For further information on above products, see following product/application section(s)

Chromatography (p. 34)

## Iodine monosublimite

Iodio monosublimato - Iode monosublimé - Iode monosublimite

I<sub>2</sub>

## Iodine monosublimite - Technical Grade

## Iodine monosublimite - Technical Grade

## RE-Pure



Assay (oxidimetric) &gt;=99 % Description Pv scagli grigio nerastre Residue on evaporation &lt;=0.3 %

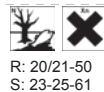
Code	Size	Packaging
348466	kg 50	Plastic drum

## Iodine

Iodio - Iode - Yodo

I<sub>2</sub>  
Atomic weight: 253,80  
CAS N: 7553-56-2  
EEC N: 231-442-4

Transport classification  
ONU n. 1759  
Transport class: 8  
Packaging group: II  
Packaging group: III



## Iodine - Pharmaceutical Grade

## RPH-According to pharmacopoeia: Ph.Eur.-USP-FU-Ph.Franc.-BP-DAB

Assay (iodometric) 99.8 + 100.5 % Description Grey-violet crystals Chloride + bromide (Cl) <= 0.025 %  
Residue on ignition <= 0.05 %

Code	Size	Packaging
348454	g 100	Glass jar
348454	g 100	Glass jar
348455	g 250	Glass jar
348455	g 250	Glass jar
348457	g 1000	Glass bottle
348451	g 5000	Metallic can
348451	g 5000	Metallic can

## Iodine 0.5 mol/l

Iodio 0,5 mol/l - Iode 0.5 mol/l - Yodo 0.5 mol/l

I<sub>2</sub>  
Atomic weight: 253,800  
CAS N: 7553-56-2  
EEC N: 231-442-4

## Iodine 0.5 mol/l - Analytical Grade

## PA-PUREX-for analysis



Assay (potentiometry) 0.995 - 1.005 N

Code	Size	Packaging
P3330016	ml 1000	Glass bottle

## RPE-For analysis



Description Brown clear liquid Titration factor 0.998 + 1.002

Code	Size	Packaging
456006	ml 500	Bottle

126,9 g of I<sub>2</sub>. Ready-to-use volumetric solution: 1 N

## Iodine 0.05 mol/l

Iodio 0,05 mol/l - Iode 0.05 mol/l - Yodo 0.05 mol/l

I<sub>2</sub>  
Atomic weight: 253,800  
CAS N: 7553-56-2  
EEC N: 231-442-4

## Iodine 0.05 mol/l - Analytical Grade

## PA-PUREX-for analysis



Assay (potentiometry) 0.0998 - 0.1002 N

Code	Size	Packaging
P3320016	ml 1000	Glass bottle

## RPE-For analysis



Description Dark red liquid Titration factor 0.998 + 1.002

Code	Size	Packaging
456036	ml 500	Glass bottle

12,69 g of I<sub>2</sub>. Ready-to-use volumetric solution: 0,1 N

For further information on above products, see following product/application section(s)  
Volumetry (p. 92)

## RPE-For analysis-Superior



Description Dark red liquid Titration factor 0.999 + 1.001

Code	Size	Packaging
456026	ml 500	Glass bottle

For further information on above products, see following product/application section(s)  
Volumetry (p. 92)



## Iodine 0.05 mol/l - Analytical Grade

## RPE-NORMEX-for analysis



Description Dark red liquid Titration factor 0.995 + 1.005

Code	Size	Packaging
456051	Ampoule	Glass ampoule

12,69 g of I<sub>2</sub>. Concentrated volumetric solution to prepare 1 l of solution 0,1 N - glass vial.For further information on above products, see following product/application section(s)  
Volumetry (p. 92)

## Iodine 0.02365 mol/l

Iodio 0,02365 mol/l - Iode 0.02365 mol/l - Yodo 0.02365 mol/l

I<sub>2</sub>  
Atomic weight: 253,800  
CAS N: 7553-56-2  
EEC N: 231-442-4

## Iodine 0.02365 mol/l - Analytical Grade

## RPE-For analysis



Description Brown clear liquid Titration factor 0.990 + 1.010

Code	Size	Packaging
456205	ml 2500	Glass bottle

For further information on above products, see following product/application section(s)  
Volumetry (p. 92)

## Iodine 0.005 mol/l

Iodio 0,005 mol/l - Iode 0.005 mol/l - Yodo 0.005 mol/l

I<sub>2</sub>  
Atomic weight: 253,800  
CAS N: 7553-56-2  
EEC N: 231-442-4

## Iodine 0.005 mol/l - Analytical Grade

## RPE-NORMEX-for analysis



Description Brown clear liquid Titration factor 0.995 + 1.005

Code	Size	Packaging
456121	Ampoule	Glass ampoule

1,269 g of I<sub>2</sub>. Concentrated volumetric solution to prepare 1 l of solution 0,01 N- glass vialFor further information on above products, see following product/application section(s)  
Volumetry (p. 92)

## Iodine monobromide

Iodio bromuro - Iode bromure - Yodo bromuro

IBr  
Atomic weight: 206,84  
CAS N: 7789-33-5  
EEC N: 232-159-9Transport classification  
ONU n. 3260  
Transport class: 8  
Packaging group: IIR: 34-37  
S: 26-45

## Iodine monobromide - Analytical Grade

## RPE-For analysis



Description Brown crystalline mass Melting point 38.0 + 40.0 °C

Code	Size	Packaging
456173	g 50	Glass vial

## Iodine pentoxide

Anidride iodica - Anhydride iodique - Anhídrido yódico

I<sub>2</sub>O<sub>5</sub>  
Atomic weight: 333,81  
CAS N: 12029-98-0  
EEC N: 234-740-2Transport classification  
ONU n. 1479  
Transport class: 5.1  
Packaging group: IIIR: 8-36/38  
S: 20-26

## Iodine pentoxide - Analytical Grade

## RPE-For analysis



Assay (oxidimetric) 99 + 100 %	Description White crystalline powder	Loss on drying <=1 %
Total nitrogen <=50 ppm	Ash <=100 ppm	Chloride + bromide (Cl) <=100 ppm
Water-insoluble matter <=100 ppm	Iodide <=10 ppm	Heavy metals (Pb) <=10 ppm
Sulphate <=50 ppm	Fe <=10 ppm	

Code	Size	Packaging
421904	g 100	Glass jar

## Iodine resublimed

Iodio bisublimato - Iode bisublimé - Yodo bisublimado

**I<sub>2</sub>**  
Atomic weight: 253,80  
CAS N: 7553-56-2  
EEC N: 231-442-4

**Transport classification**  
ONU n. 1759  
Transport class: 8  
Packaging group: II



R: 20/21-50  
S: 23-25-61

## Iodine resublimed - Analytical Grade

## RPE-For analysis



**Assay (oxidimetric) >=99.9 %** Description Grey-violet crystals Residue on evaporation <=100 ppm  
Chlorine-Bromine <=100 ppm

Code	Size	Packaging
455959	g 100	Glass jar
455955	g 250	Jar
455957	g 1000	Glass jar
455953	g 2500	Glass jar
455954	kg 25	Fibre drum

For further information on above products, see following product/application section(s)  
Chromatography (p. 34)

## Iodine trichloride

Iodio tricoloruro - Iode trichlorure - Yodo tricoloro

**ICl<sub>3</sub>**  
Atomic weight: 233,29  
CAS N: 865-44-1  
EEC N: 212-739-8

**Transport classification**  
ONU n. 3260  
Transport class: 8  
Packaging group: II



R: 34-37  
S: 26-45

## Iodine trichloride - Analytical Grade

## RPE-For analysis



**Assay (oxidimetric) >=98 %** Description Brown mass

Code	Size	Packaging
456323	g 50	Glass jar

## Iodobenzene

Iodobenzene - Iodobenzène - Yodobenceno

**C<sub>6</sub>H<sub>5</sub>I**  
Atomic weight: 204,1  
CAS N: 591-50-4  
EEC N: 209-719-6



R: 22  
S: 24/25

## Iodobenzene - Analytical Grade

## RPE-For analysis



**Assay (GLC) 99.5 + 100.0 %** Description Liq. limp lieviss. rifl. gia Density at 20° C 1.825 + 1.835  
Refractive index at 20° 1.6150 + 1.6250 Boiling point 188.5 + 189.5 ° C Residue on ignition <=100 ppm

Code	Size	Packaging
456374	ml 25	Glass bottle

Stabilized with silver wool.

## Iodoform

Iodoformio - Iodoforme - Yodo formo

**CHI<sub>3</sub>**  
Atomic weight: 393,77  
CAS N: 75-47-8  
EEC N: 200-874-5



R: 20/21/22  
S: 22

## Iodoform - Technical Grade

## RE-Pure



**Assay (argentimetric) >= 99.0 %** Description Yellow crystalline powder Loss on drying <= 1.0 %  
Sulphated ash <= 0.2 % Appearance of solution Conform Acidity or alkalinity Conform  
Chloride <= 50 ppm

Code	Size	Packaging
348554	g 100	Glass jar
348557	g 1000	Glass jar

## Ion-exchange resins: exchangers for applications in organic solvents

## Ion-exchange resins: exchangers for applications in organic solvents - Special Grade

## Ion-exchange resins: exchangers for applications in organic solvents - Special Grade

## RS-Heterogeneous catalysis



Description Conform

Code	Size	Packaging	Notes
417751	g 500	Plastic jar	Amberlyst A21
417752	g 1000	Plastic jar	Amberlyst A21
417981	g 1000	Plastic jar	Amberlyst 15 Wet

See product-application: Adsorbents

For further information on above products, see following product/application section(s)  
Ion exchange resins (p. 54)

## Ion-exchange resins: pharmaceutical grade exchangers

## Ion-exchange resins: pharmaceutical grade exchangers - Special Grade

## RS-Ion exchange resin



Code	Size	Packaging	Notes
418051	g 1000	Plastic jar	Duolite AP143/1093

For further information on above products, see following product/application section(s)  
Ion exchange resins (p. 54)

## RS-Pharmaceutical grade exchangers



Description Conform

Code	Size	Packaging	Notes
417451	g 250	Plastic jar	Amberlite IRP64
417481	g 250	Plastic jar	Amberlite IRP69
417452	g 1000	Plastic jar	Amberlite IRP64
417482	g 1000	Plastic jar	Amberlite IRP69
418041	g 1000	Plastic jar	Amberlite IRP88

See product-application: Adsorbents

For further information on above products, see following product/application section(s)  
Ion exchange resins (p. 54)

## Ion-exchange resins: polymeric adsorbent

## Ion-exchange resins: polymeric adsorbent - Special Grade

## RS-Ion exchange resin



Description Hazel granules

Code	Size	Packaging	Notes
417476	g 500	Plastic jar	Amberlite XAD4
417472	g 1000	Plastic jar	Amberlite XAD4
418061	g 1000	Plastic jar	Amberlite XAD16
418091	g 1000	Plastic jar	Amberlite XAD 761

See product-application: Adsorbents

For further information on above products, see following product/application section(s)  
Ion exchange resins (p. 54)

## Ion-exchange resins: selective chelating exchangers

## Ion-exchange resins: selective chelating exchangers - Special Grade

## RS-Ion exchange resin



Code	Size	Packaging	Notes
417951	g 1000	Plastic jar	Amberlite IRC 748

For further information on above products, see following product/application section(s)  
Ion exchange resins (p. 54)

## RS-Selective exchangers (chelating)



Description Conform

Code	Size	Packaging	Notes
417356	g 500	Plastic jar	Amberlite IRA 743
417351	g 1000	Plastic jar	Amberlite IRA 743
417971	g 1000	Plastic jar	Amberlite IRC748

For further information on above products, see following product/application section(s)  
Ion exchange resins (p. 54)

## Ion-exchange resins: strong anionic exchangers

## Ion-exchange resins: strong anionic exchangers - Special Grade

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
M  
N  
O  
P  
Q  
R  
S  
T  
U  
V  
W  
X  
Y  
Z

## Ion-exchange resins: strong anionic exchangers - Special Grade

## RS-Active group: quaternary ammonium



Description Conform

Code	Size	Packaging	Notes
417051	g 500	Plastic jar	Amberlite IRA458 Cl
417521	g 500	Plastic jar	Amberlite IRA900 Cl
417551	g 500	Plastic jar	Amberlite IRA910 Cl
417052	g 1000	Plastic jar	Amberlite IRA458 Cl
417411	g 1000	Plastic jar	Amberlite IRA402 Cl
417431	g 1000	Plastic jar	Amberlite IRA404 Cl
417522	g 1000	Plastic jar	Amberlite IRA900 Cl
417531	g 1000	Plastic jar	Amberlite IRA410 Cl
417552	g 1000	Plastic jar	Amberlite IRA910 Cl
417561	g 1000	Plastic jar	Amberlite IRA958 Cl
417801	g 1000	Plastic jar	Amberjet 4400 OH

See product-application: Adsorbents

For further information on above products, see following product/application section(s)

Ion exchange resins (p. 54)

## Ion-exchange resins: weak anionic exchangers

## Ion-exchange resins: weak anionic exchangers - Special Grade

## RS-Active group: tertiary amine



Code	Size	Packaging	Notes
417821	g 1000	Plastic jar	Amberlite IRA68
418111	g 1000	Plastic jar	Amberlite IRA 92

See product-application: Adsorbents

For further information on above products, see following product/application section(s)

Ion exchange resins (p. 54)

## Ion-exchange resins: weak cationic exchangers

## Ion-exchange resins: weak cationic exchangers - Special Grade

## RS-Active group: Carboxylic group



Code	Size	Packaging	Notes
417391	g 1000	Plastic jar	Amberlite IRC86

See product-application: Adsorbents

For further information on above products, see following product/application section(s)

Ion exchange resins (p. 54)

## RS-Active group: sulphonic group



Description Conform

Code	Size	Packaging	Notes
417501	g 500	Plastic jar	Amberlite 200C Na
417591	g 500	Plastic jar	Amberlite IR120 Na
417311	g 1000	Plastic jar	Amberjet 1200 Na
417502	g 1000	Plastic jar	Amberlite 200C Na
417592	g 1000	Plastic jar	Amberlite IR120 Na

See product-application: Adsorbents

For further information on above products, see following product/application section(s)

Ion exchange resins (p. 54)

## Iridium

Iridio - Iridium - Iridio

Ir

## Iridium - Special Grade

## RS-Standard solution for ICP-MS



Code	Size	Packaging	Notes
505671	ml 50	Plastic bottle	Matrice: Hydrochloric acid, conc. 10 ppm
505672	ml 100	Plastic bottle	Matrice: Hydrochloric acid, conc. 10 ppm
505675	ml 100	Plastic bottle	Matrice: Hydrochloric acid, conc. 100 ppm

For further information on above products, see following product/application section(s)

Trace metal analysis (p. 86)

## Iridium powder

Iridio polvere - Iridium en poudre - Iridio en polvo

Ir

Atomic weight: 192,22  
CAS N: 7439-88-5  
EEC N: 231-095-9

## Iridium powder - Analytical Grade

## RPE-For analysis



Assay (spectrophotom.) &gt;=99.7 % Description Dark grey powder

Code	Size	Packaging
456531	g 1	Glass bottle

## Iridium trichloride

Iridio tricoloro - Iridium trichlorure - Iridio tricoloro

IrCl<sub>3</sub>.nH<sub>2</sub>O

Atomic weight: 299,47 (ANHYDR.)

CAS N: 10025-83-9

EEC N: 233-044-6

## Iridium trichloride - Analytical Grade

## RPE-For analysis



Assay (spectrophotom.) &gt;=49 % Ir Description Skining dark crystals

Code	Size	Packaging
456587	g 1	Glass vial

## Iron powder

Ferro polvere - Fer en poudre - Hierro polvo

## Fe

Atomic weight: 55,85

CAS N: 7439-89-6

EEC N: 231-096-4

## Iron powder - Analytical Grade

## RPE-For analysis



Assay &gt;=97 % Description Grey powder

Code	Size	Packaging
451377	g 1000	Plastic jar
451373	kg 25	Carton box

## Iron reduced by hydrogen

Ferro ridotto dall'idrogeno - Fer réduit par l'hydrogène - Hierro reducido para el hidrógeno

## Fe

Atomic weight: 55,85

CAS N: 7439-89-6

EEC N: 231-096-4

## Iron reduced by hydrogen - Analytical Grade

## RPE-For analysis

Assay >=95 % Description Grey powder Ferric ion Conform  
Nitrogen compounds (N) <=50 ppm H<sub>2</sub>SO<sub>4</sub>-insoluble matter <=0.5 % Water solubility <=0.1 %

Code	Size	Packaging
451395	g 250	Plastic jar
451397	g 1000	Plastic jar
451393	kg 25	Metallic can

## Iron

Ferro - Fer - Hierro

## Transport classification

ONU n. 3264

Transport class: 8

Packaging group: II

Packaging group: III



R: 36/38

S: 26-36/37/39-45

## Iron - Special Grade

## RS-NORMEX-concentrated solution for AAS



Description Yellow clear liquid Titration factor 0.995 + 1.005

Code	Size	Packaging	Notes
451311	Ampoule	Plastic vial	conc. 1.000 ppm

Concentrated volumetric solution to prepare 1 l of solution 1 mg/ml

For further information on above products, see following product/application section(s)

Trace metal analysis (p. 86)

## RS-Standard solution for AAS



Description Yellow clear liquid Titration factor 0.998 + 1.002

Code	Size	Packaging	Notes
497515	ml 100	Glass bottle	conc. 1.000 ppm
497511	ml 500	Plastic bottle	conc. 1.000 ppm

Ready-to-use solution: concentration 1 mg/ml

## Iron - Special Grade

## RS-Standard solution for ICP



Code	Size	Packaging	Notes
503581	ml 100	Plastic bottle	Matrice: Nitric acid, conc. 1.000 ppm
503585	ml 100	Plastic bottle	Matrice: Nitric acid, conc. 10.000 ppm
503583	ml 500	Plastic bottle	Matrice: Nitric acid, conc. 1.000 ppm
503587	ml 500	Plastic bottle	Matrice: Nitric acid, conc. 10.000 ppm

Provided with real batch certificate. Verified against NIST Standard Reference

For further information on above products, see following product/application section(s)  
Trace metal analysis (p. 86)

## RS-Standard solution for ICP-MS



Code	Size	Packaging	Notes
505611	ml 50	Plastic bottle	Matrice: Nitric acid, conc. 10 ppm
505612	ml 100	Plastic bottle	Matrice: Nitric acid, conc. 10 ppm
505615	ml 100	Plastic bottle	Matrice: Nitric acid, conc. 100 ppm

For further information on above products, see following product/application section(s)  
Trace metal analysis (p. 86)

## Iron (II) ammonium sulphate

Ferro ammonio solfato oso - Fer(-eux) ammonium sulfate - Hierro y amonio sulfato oso

$\text{Fe}(\text{NH}_4)_2(\text{SO}_4)_2 \cdot 6\text{H}_2\text{O}$   
Atomic weight: 392,14  
CAS N: 7783-85-9  
EEC N: 233-151-8

## Iron (II) ammonium sulphate - Analytical Grade

## RPE-ACS-for analysis



Assay (oxidimetric) 98.5 + 101.5 %	Description Green - azure crystals	Phosphate <= 30 ppm
Ca <= 50 ppm	Ferric salt <= 100 ppm	Cu <= 30 ppm
Mn <= 100 ppm	Zn <= 30 ppm	Water-insoluble matter <= 100 ppm
Mg <= 20 ppm	K <= 20 ppm	Na <= 0.02 %

Code	Size	Packaging
451451	g 500	Jar
451457	g 1000	Jar
451454	kg 50	Fibre drum

For further information on above products, see following product/application section(s)  
Special products for environmental analysis (p. 81)

## Iron (II) ammonium sulphate - Technical Grade

## RE-Pure



Assay (oxidimetric) >= 98 %	Description Green - azure crystals	Chloride <= 0.05 %
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Code	Size	Packaging
344007	g 1000	Plastic jar
344003	kg 25	Carton drum

## Iron (II) ammonium sulphate 0,1N in sulphuric acid

Ferro ammonio solfato oso 0,1N in acido solforico - Fer II ammonium sulfate 0,1N - Hierro II amonio sulfato 0,1 N

$\text{Fe}(\text{NH}_4)_2(\text{SO}_4)_2 \cdot 6\text{H}_2\text{O}$   
Atomic weight: 392,140  
CAS N: 7783-85-9  
EEC N: 233-151-8

## Iron (II) ammonium sulphate 0,1N in sulphuric acid - Analytical Grade

## PA-PUREX-for analysis



Assay (potentiometry) 0.099 - 0.101 N
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Code	Size	Packaging
P3250016	ml 1000	Glass bottle

## Iron (II) chloride

Ferro cloruro oso - Fer (-eux) chlorure - Hierro cloruro oso

$\text{FeCl}_2 \cdot 5\text{H}_2\text{O}$   
Atomic weight: 126,75 (ANHYDR.)  
CAS N: 13478-10-9  
EEC N: 231-843-4



R: 22-41  
S: 26-28

## Iron (II) chloride - Analytical Grade

## Iron (II) chloride - Analytical Grade



## RPE-For analysis

Assay (oxidimetric) $\geq 99$ %	Description Yellow-green crystals	Total nitrogen $\leq 20$ ppm
Phosphate $\leq 10$ ppm	Diluted HCl-ins. matter $\leq 50$ ppm	Subst. not ppt NH <sub>4</sub> OH $\leq 500$ ppm
Ferric salt $\leq 0.2$ %	Sulphate $\leq 50$ ppm	As $\leq 1$ ppm
Cr $\leq 20$ ppm	Cu $\leq 20$ ppm	Mn $\leq 0.1$ %
Ni $\leq 50$ ppm	Pb $\leq 20$ ppm	Zn $\leq 20$ ppm

Code	Size	Packaging
451575	g 500	Plastic jar
451573	kg 25	Fibre drum

## Iron (II) oxalate

*Ferro ossalato oso - Fer (-eux) oxalate - Hierro oxalato oso***(COO)<sub>2</sub>Fe·2H<sub>2</sub>O**

Atomic weight: 179.90

CAS N: 6047-25-2

EEC N: 208-217-4

R: 21/22  
S: 24/25

## Iron (II) oxalate - Analytical Grade



## RPE-For analysis

Assay (oxidimetric) $99 + 100$ %	Description Yellow powder	Ammonium $\leq 0.5$ %
Chloride $\leq 10$ ppm	Phosphate $\leq 50$ ppm	HCl-insoluble matter $\leq 500$ ppm
Nitrate $\leq 30$ ppm	Ferric salt $\leq 0.5$ %	Sulphate $\leq 10$ ppm
As $\leq 2$ ppm	Cr $\leq 50$ ppm	Cu $\leq 50$ ppm
Mg $\leq 0.15$ %	Ni $\leq 200$ ppm	Pb $\leq 50$ ppm
Zn $\leq 50$ ppm		

Code	Size	Packaging
451775	g 250	Plastic jar

## Iron (II) oxalate - Technical Grade

## RE-Pure



Assay (oxidimetric) $98$ %	Description Yellow powder	Chloride $\leq 500$ ppm
Sulphate $\leq 0.1$ %		

Code	Size	Packaging
344757	g 1000	Plastic jar

## Iron (II) sulphate

*Ferro solfato oso - Fer (-eux) sulfate - Hierro sulfato oso***FeSO<sub>4</sub>·7H<sub>2</sub>O**

Atomic weight: 278.02

CAS N: 7782-63-0

EEC N: 231-753-5

R: 22-41  
S: 26

## Iron (II) sulphate - Analytical Grade



## RPE-ACS-for analysis

Assay (oxidimetric) $\geq 99.0$ %	Description Green - azure crystals	Ferric salt $\leq 0.1$ %
Water-insoluble matter $\leq 100$ ppm	Ca $\leq 50$ ppm	Chloride $\leq 10$ ppm
Phosphate $\leq 10$ ppm	Cu $\leq 50$ ppm	Mn $\leq 0.05$ %
Zn $\leq 50$ ppm	Mg $\leq 20$ ppm	K $\leq 20$ ppm
Na $\leq 0.02$ %		

Code	Size	Packaging
451877	g 1000	Plastic jar
451879	g 5000	Plastic jar

## Iron (II) sulphate - Pharmaceutical Grade

## RPH-According to pharmacopoeia: Ph.Eur.-USP-FU-Ph.Franc.-BP-DAB



Assay (oxidimetric) $98.0 + 105.0$ %	Description Green azure crystals	Appearance of solution Conform Ph.Eur.
pH solution 5% $3.0 \div 4.0$	Chloride $\leq 300$ ppm	Ferric ion $\leq 0.5$ %
Heavy metals (Pb) $\leq 50$ ppm	Mn $\leq 0.1$ %	Zn $\leq 500$ ppm
Origin (BSE/TSE) Synthesis	Residual solvents (CPMP/ICH/283/95) Conform	

Code	Size	Packaging
344957	g 1000	Bottle
344959	g 5000	Bottle
344954	kg 50	Drum

## A Iron (II) sulphate dried

Ferro solfato oso secco - Fer (-eux) sulfate sec - Hierro sulfato oso seco

**FeSO<sub>4</sub>·nH<sub>2</sub>O**  
Atomic weight: 151,85 (ANHYDR.)  
CAS N: 7782-63-0  
EEC N: 231-753-5



R: 22-41  
S: 26

## B Iron (II) sulphate dried - Pharmaceutical Grade

## RPH-According to pharmacopoeia: BP



Assay (oxidimetric) 86.0 + 90.0 %	Description White-greyish powder	Mn Conform BP
Basic sulphate Conform BP	Ferric ion ≤ 0.5 %	Heavy metals (Pb) ≤ 50 ppm
As ≤ 3 ppm	Cu ≤ 50 ppm	Zn ≤ 500 ppm
Origin (BSE/TSE) Synthesis	Residual solvents (CPMP/ICH/283/95) Conform	

Code	Size	Packaging
345157	g 1000	Bottle
345153	kg 25	Tank
345154	kg 50	Drum

## C Iron (II) sulphide sticks

Ferro solfuro cilindri - Fer sulfure en cylindres pour Kipp - Hierro sulfuro barras

**FeS**  
Atomic weight: 87,90  
CAS N: 1317-37-9  
EEC N: 215-268-6



R: 20/22-31  
S: 28

## D Iron (II) sulphide sticks - Technical Grade

## RE-Pure-for Kipp



Description Grey-blackish sticks

Code	Size	Packaging
451977	g 1000	Plastic jar

## E Iron (III) ammonium citrate green

Ferro ammonio citrato verde - Fer ammonium citrate vert - Hierro y amonio citrato verde

**FeNH<sub>4</sub>(C<sub>6</sub>H<sub>5</sub>O<sub>7</sub>)**  
Atomic weight: 265,000  
CAS N: 25378-33-0  
EEC N: 214-686-6

## F Iron (III) ammonium citrate green - Technical Grade

## RE-Pure



Assay (oxidimetric) 14.0 + 16.0 % Fe	Description Green-yellowish crystalline powder	Sulphate ≤ 0.5 %
As ≤ 4 ppm		

Code	Size	Packaging
343605	g 250	Plastic jar
343607	g 1000	Plastic jar
343608	kg 25	Sack

## G Iron (III) ammonium citrate red

Ferro ammonio citrato rosso - Fer ammonium citrate rouge - Hierro y amonio citrato rojo

**FeNH<sub>4</sub>(C<sub>6</sub>H<sub>5</sub>O<sub>7</sub>)**  
Atomic weight: 265,000  
CAS N: 25378-33-0  
EEC N: 214-686-6

## H Iron (III) ammonium citrate red - Technical Grade

## RE-Pure



Assay (oxidimetric) 20 + 23 % Fe	Description Red-brown powder	Sulphate ≤ 0.6 %
As ≤ 5 ppm		

Code	Size	Packaging
343441	g 250	Plastic jar
343442	g 1000	Plastic jar
343444	kg 50	Carton box

## I Iron (III) ammonium oxalate

Ferro ammonio ossalato ico - Fer (-ique) ammonium oxalate - Hierro y amonio oxalato ico

**(NH<sub>4</sub>)<sub>2</sub>Fe(C<sub>2</sub>O<sub>4</sub>)<sub>2</sub>·3H<sub>2</sub>O**  
Atomic weight: 428,08  
CAS N: 13268-42-3  
EEC N: 220-952-2

## J Iron (III) ammonium oxalate - Technical Grade



## Iron (III) ammonium oxalate - Technical Grade

## RE-Pure



Assay (oxidimetric) >=98 %	Description Green crystals	pH 10% at 25° C 4.0 ± 6.0
Chloride <=50 ppm	Sulphate <=50 ppm	

Code	Size	Packaging
343757	g 1000	Plastic jar
343753	kg 25	Fibre drum

## Iron (III) ammonium sulphate

Ferro ammonio solfato ico - Fer (-ique) ammonium sulfate - Hierro y amonio sulfato ico

**FeNH<sub>4</sub>(SO<sub>4</sub>)<sub>2</sub>·12H<sub>2</sub>O**  
 Atomic weight: 482,19  
 CAS N: 7783-83-7  
 EEC N: 233-382-4

## Iron (III) ammonium sulphate - Analytical Grade

## RPE-For analysis



Assay (oxidimetric) >=98 %	Description Purple semitransparent crystals	pH sol. 5% at 25° C 1.75 ± 2.75
Chloride <=3 ppm	Phosphate <=20 ppm	Diluted HCl-ins. matter <=50 ppm
Nitrate <=50 ppm	Subst. not ppt NH <sub>4</sub> OH <=0.1 %	Ferrous salt <=50 ppm
As <=2 ppm	Ca <=10 ppm	Cr <=100 ppm
Cu <=10 ppm	K <=300 ppm	Mg <=50 ppm
Mn <=100 ppm	Na <=150 ppm	Ni <=20 ppm
Pb <=30 ppm	Zn <=20 ppm	

Code	Size	Packaging
451505	g 500	Plastic jar
451507	g 1000	Plastic jar
451504	kg 50	Carton drum

For further information on above products, see following product/application section(s)  
 Indicators (p. 50)

## Iron (III) ammonium sulphate - Technical Grade

## RE-Pure



Assay (oxidimetric) >= 98.0 %	Description Cristalli semitrasparenti violacei	Ferrous salt Conform
Chloride <= 0.05 %	Subst. not ppt NH <sub>4</sub> OH <= 0.1 %	Cu <= 20 ppm
Zn <= 50 ppm		

Code	Size	Packaging
344107	g 1000	Plastic jar

## Iron (III) ammonium sulphate solution 33% in nitric acid

**FeNH<sub>4</sub>(SO<sub>4</sub>)<sub>2</sub>·52H<sub>2</sub>O**  
 CAS N: 7783-83-7  
 EEC N: 233-382-4

Transport classification  
 ONU n. 2031  
 Transport class: 8  
 Packaging group: II



R: 35  
 S: 26-45

## Iron (III) ammonium sulphate solution 33% in nitric acid - Analytical Grade

## RPE-For analysis



Assay 32 ± 34 %	Description Yellow - brown liquid
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Code	Size	Packaging
451521	ml 500	Bottle

## Iron (III) chloride

Ferro cloruro ico - Fer (-ique) chlorure - Hierro cloruro ico hexahidratato

**FeCl<sub>3</sub>·6H<sub>2</sub>O**  
 Atomic weight: 270,30  
 CAS N: 10025-77-1  
 EEC N: 231-729-4

Transport classification  
 ONU n. 3260  
 Transport class: 8  
 Packaging group: III



R: 34  
 S: 7/8-26-45

## Iron (III) chloride - Technical Grade

## RE-Pure



Assay (oxidimetric) 60 ± 62 %	Description Grani giallo scuro	Acidity (HCl) <= 0.8 %
Not soluble matter <= 300 ppm	Sulphate <= 0.1 %	As <= 5 ppm
Cr <= 75 ppm	Cu <= 75 ppm	Ni <= 75 ppm
Pb <= 20 ppm	Zn <= 150 ppm	

Code	Size	Packaging
344508	g 2500	Plastic bottle
344504	kg 25	Fibre drum

## Iron (III) chloride anhydrous sublimed

Ferro cloruro ico anidro sublimato - Fer (-ique) chlorure anhydre sublimé - Hierro cloruro ico anhidro sublimado

### FeCl<sub>3</sub>

Atomic weight: 162,22  
CAS N: 7705-08-0  
EEC N: 231-729-4

### Transport classification

ONU n. 1773  
Transport class: 8  
Packaging group: III



R: 34  
S: 7/8-26-45

### Iron (III) chloride anhydrous sublimed - Analytical Grade

#### RPE-For analysis



Assay (oxidimetric)  $\geq 98$  %  
As  $\leq 20$  ppm  
Ni  $\leq 500$  ppm

Description Black powder  
Cu  $\leq 0.1$  %  
Pb  $\leq 200$  ppm

Water-insoluble matter  $\leq 1$  %  
Mn  $\leq 0.3$  %  
Zn  $\leq 0.1$  %

Code	Size	Packaging
451695	g 250	Glass jar
451694	kg 50	Fibre drum

## Iron (III) chloride solution 4.5% in water

Ferro cloruro ico soluzione 4,5% in acqua - Fer (-ique) chlorure en solution à 4,5% dans l'eau - Hierro cloruro ico solución 4,5% en agua

### FeCl<sub>3</sub>·6H<sub>2</sub>O

CAS N: 10025-77-1  
EEC N: 231-729-4

### Iron (III) chloride solution 4.5% in water - Analytical Grade

#### RPE-For analysis



Assay  $4.3 \pm 4.7$  % p/p

Description Yellow clear liquid

Density at 20° C  $1.019 \pm 1.025$

Code	Size	Packaging
451653	ml 1000	Bottle

## Iron (III) citrate granular

Ferro citrato ico granulare - Fer (-ique) citrate granule - Hierro citrato ico granulado

### C<sub>6</sub>H<sub>6</sub>O<sub>7</sub>·xFe

CAS N: 2338-05-8  
EEC N: 219-045-4

### Iron (III) citrate granular - Technical Grade

#### RE-Pure



Assay (iodometric)  $18 \pm 20$  % Fe

Description Red-brown crystals

Code	Size	Packaging
344201	g 1000	Glass jar

## Iron (III) nitrate

Ferro nitrato ico - Fer(-ique) nitrate - Hierro nitrato ico

### Fe(NO<sub>3</sub>)<sub>3</sub>·9H<sub>2</sub>O

Atomic weight: 404,02  
CAS N: 7782-61-8  
EEC N: 233-899-5

### Transport classification

ONU n. 1466  
Transport class: 5.1  
Packaging group: III



R: 8-36/37/38  
S: 17-22-24/25

### Iron (III) nitrate - Analytical Grade

#### RPE-ACS-for analysis



Assay (oxidimetric)  $98.0 \pm 101.0$  %  
Water-insoluble matter  $\leq 50$  ppm

Description Purplish crystals deliquescent  
Chloride  $\leq 5$  ppm

Subst. not ppt NH<sub>4</sub>OH  $\leq 0.1$  %  
Sulphate  $\leq 100$  ppm

Code	Size	Packaging
451725	g 500	Plastic jar
451727	g 1000	Plastic jar
451724	kg 50	Fibre drum

## Iron (III) oxide

Ferro ossido ico - fer (-ique) oxyde - Hierro óxido ico

### Fe<sub>2</sub>O<sub>3</sub>

Atomic weight: 159,69  
CAS N: 1309-37-1  
EEC N: 215-168-2

### Iron (III) oxide - Analytical Grade

## Iron (III) oxide - Analytical Grade



## RPE-For analysis

Assay (oxidimetric) >=99 %	Description Red brown powder	Loss on drying <=0.2 %
Diluted HCl-ins. matter <=100 ppm	Total nitrogen <=50 ppm	Chloride <=100 ppm
Sulphate <=100 ppm	Ca <=100 ppm	Cd <=10 ppm
Co <=50 ppm	Cr <=10 ppm	Cu <=50 ppm
K <=50 ppm	Mg <=50 ppm	Mn <=50 ppm
Na <=200 ppm	Ni <=50 ppm	Pb <=50 ppm
Zn <=50 ppm		

Code	Size	Packaging
451824	g 100	Plastic jar
451826	g 500	Plastic jar
451821	kg 25	Fibre drum

## Iron (III) perchlorate

Ferro perclorato - Fer perchlorate - Hierro paraclorato

**Fe(ClO<sub>4</sub>)<sub>3</sub>·nH<sub>2</sub>O**  
 Atomic weight: 516,34  
 CAS N: 13537-24-1  
 EEC N: 236-908-0

**Transport classification**  
 ONU n. 1481  
 Transport class: 5.1  
 Packaging group: II



R: 5-8-35  
 S: 17-24/25-45

## Iron (III) perchlorate - Technical Grade



## RE-Pure

Assay (complexometric) >=98 %	Description Yellow brown crystals	Chloride <=100 ppm
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Code	Size	Packaging
451841	g 100	Glass jar

## Iron (III) sulphate

Ferro solfato ico - Fer (-ique) sulfate - Hierro sulfato ico

**Fe<sub>2</sub>(SO<sub>4</sub>)<sub>3</sub>·nH<sub>2</sub>O**  
 Atomic weight: 399,97 (ANHYDR.)  
 CAS N: 15244-10-7  
 EEC N: 233-072-9



R: 22-41  
 S: 26

## Iron (III) sulphate - Analytical Grade



## RPE-For analysis

Assay (oxidimetric) 20 ± 23 % Fe	Description Yellow-green powder	pH sol. 5% at 25° C 1.0 ± 2.0
Chloride <= 0.1 %	Dil. H <sub>2</sub> SO <sub>4</sub> -ins. matter <=100 ppm	Ferrous salt <=150 ppm
As <=3 ppm	Ca <=200 ppm	Cu <=10 ppm
K <=500 ppm	Ni <=100 ppm	Pb <=20 ppm
Zn <=100 ppm		

Code	Size	Packaging
451926	g 500	Plastic jar
451927	g 1000	Plastic jar

## Isoamyl acetate

Isopentile acetato - Isoamyle acétate - Isopentilo acetato

**C<sub>7</sub>H<sub>14</sub>O<sub>2</sub>**  
 Atomic weight: 130,19  
 CAS N: 123-92-2  
 EEC N: 204-662-3

**Transport classification**  
 ONU n. 1104  
 Transport class: 3  
 Packaging group: III

R: 10-66  
 S: 23-25

## Isoamyl acetate - Analytical Grade



## RPE-For analysis

Assay (GLC) >=99.5 %	Description Clear colourless liquid	Water miscibility Conform
Alcohol miscibility complete	Density at 20° C 0.864 ± 0.870	Refractive index at 20° 1.3963 ± 1.4043
Boiling point 140.5 ± 143.5 ° C	Water (K.F.) <=50 ppm	Residue on evaporation <=20 ppm
Acidity (acetic acid) <=50 ppm		

Code	Size	Packaging
417781	ml 250	Glass bottle
417782	ml 1000	Glass bottle
417783	kg 23	Metal drum

## Isoamyl acetate - Technical Grade

## PS-Pure-for synthesis



Assay (GC) >= 99 %	Refractive index at 20°C 1.39 - 1.4	Water content (K.F.) <= 3000 mg/Kg
Colour <= 15 Hazen	Density d <sub>20/4</sub> = 0.87	

Code	Size	Packaging
P6120028	ml 5000	Plastic drum
P6120068	l 200	Metal drum

## Isoamyl acetate - Technical Grade

## RE-Pure



Description Clear colourless liquid	Density at 20° C 0.862 + 0.872	Refractive index at 20° 1.3943 + 1.4063
Boiling point 140.5 + 143.5 °C	Water (K.F.) <=0.5 %	Residue on evaporation <=100 ppm
Acidity (acetic acid) <=0.1 %		

Code	Size	Packaging
313251	ml 1000	Glass bottle
313252	kg 15	Metallic can

## Isoamyl alcohol

Alcole isoamilico - Alcool isoamylique - Alcool isoamilico

**(CH<sub>3</sub>)<sub>2</sub>CHCH<sub>2</sub>.CH<sub>2</sub>OH**  
 Atomic weight: 88,151  
 CAS N: 123-51-3  
 EEC N: 204-633-5

**Transport classification**  
 ONU n. 1105  
 Transport class: 3  
 Packaging group: II  
 Packaging group: III

**X**  
 R: 10-20  
 S: 24/25

## Isoamyl alcohol - Analytical Grade

## RPE-ACS-for analysis-Reag. Ph.Eur.-Reag. USP



Assay (GLC) >=98.5 %	Description Clear colourless liquid	Density at 20° C 0.805 + 0.813
Refractive index at 20° 1.4023 + 1.4083	Boiling point 130.5 + 132.5 °C	Water (K.F.) <=0.5 %
Acidity <=0.002 meq/g	Acids and esters <=0.2 %	Residue on evaporation <=30 ppm
Carbonyl (HCOH) <=0.1 %		

Code	Size	Packaging
413801	ml 500	Glass bottle

## RPE-For analysis



Assay (GLC) >=97 %	Description Clear colourless liquid	Density at 20° C 0.805 + 0.813
Refractive index at 20° 1.4023 + 1.4083	Boiling point 130.5 + 132.5 °C	Water (K.F.) <=0.5 %
Acidity <=0.002 meq/g	Acids and esters <=0.2 %	Residue on evaporation <=30 ppm
Carbonyl (HCOH) <=0.1 %		

Code	Size	Packaging
413832	ml 1000	Glass bottle
413836	ml 2500	Glass bottle
413833	kg 22	Metal drum

Isomers mixture

## Isoamyl alcohol - Special Grade

## RS-For agroalimentary analysis



Assay (totalisom., GC) >= 98 %	Colour <= 10 APHA	Water (K.F.) <= 0.2 %
3-methyl-1-butanol 89 + 93 %	2-methyl-1-butanol 7 + 11 %	Organic impurities Passes test
Density at 20° C 0.808+0.818 gr/ml		

Code	Size	Packaging
502191	ml 1000	-

## RS-For analysis according to Gerber



Description Clear colourless liquid	Density at 20° C 0.810 + 0.814
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Code	Size	Packaging
413892	ml 1000	Glass bottle
413893	kg 22	Metal drum

**For further information on above products, see following product/application section(s)**  
 Agriculture and food sector analyses (p. 25)

## RS-For analysis according to Gerber-with indicator



Description Blue liquid	Density at 20° C 0.810 + 0.814
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Code	Size	Packaging
413903	ml 500	Glass bottle
413904	kg 22	Metal drum

Isomers mixture with indicator

## Isoamyl alcohol - Technical Grade

## PS-Pure-for synthesis



Assay (GC) >= 99 %	Refractive index at 20°C 1.403 - 1.407	Water content (K.F.) <= 1000 mg/Kg
Colour <= 10 Hazen		

Code	Size	Packaging
P0800221	ml 2500	Glass bottle

## Isoamyl alcohol - Technical Grade

## RE-Pure



Description Clear colourless liquid	Density at 20° C 0.807 ± 0.817	Refractive index at 20° 1.4038 ± 1.4098
Boiling point 132 ± 1.5 ° C	Water (K.F.) <=0.2 %	Residue on evaporation <=0.1 %
Acids and esters <=0.5 %		

Code	Size	Packaging
308001	ml 1000	Glass bottle
308003	kg 22	Metal drum
308002	kg 160	Metal drum

## Isoamyl formate

Isopentile formiato - Isoamyle formiate - Isopentilo formiato

HCOOC<sub>4</sub>H<sub>11</sub>

Atomic weight: 116,16  
CAS N: 110-45-2  
EEC N: 203-769-2

Transport classification  
ONU n. 1109  
Transport class: 3.C.43  
Packaging group: III



R: 10-36/37  
S: 24

## Isoamyl formate - Analytical Grade

## RPE-For analysis



Description Clear colourless liquid	Density at 20° C 0.880 ± 0.884	Refractive index at 20° 1.3935 ± 1.3995
Boiling point 124.0 ± 124.5 ° C	Water (K.F.) <=0.2 %	Residue on evaporation <=100 ppm

Code	Size	Packaging
418082	ml 500	Glass bottle

## Isobutyl acetate

Isobutile acetato - Isobutyle acétate - Isobutilo acetato

(CH<sub>3</sub>)<sub>2</sub>CHCH<sub>2</sub>OCOCH<sub>3</sub>

Atomic weight: 116,16  
CAS N: 110-19-0  
EEC N: 203-745-1

Transport classification  
ONU n. 1213  
Transport class: 3  
Packaging group: II



R: 11-66  
S: 16-23-25-29-33

## Isobutyl acetate - Analytical Grade

## RPE-For analysis



Assay (GLC) >=98.0 %	Description Clear colourless liquid	Density at 20° C 0.867 ± 0.877
Refractive index at 20° 1.3851 ± 1.3951	Boiling point 114 ± 118.5 ° C	Water (K.F.) <=0.1 %
Residue on evaporation <=100 ppm	Acidity (acetic acid) <=500 ppm	

Code	Size	Packaging
431721	ml 500	Glass bottle

## Isobutyl acetate - Technical Grade

## RE-Pure



Assay (GLC) >=97 %	Description Clear colourless liquid	Density at 20° C 0.867 ± 0.877
Refractive index at 20° 1.3851 ± 1.3951	Boiling point 114 ± 118.5 ° C	Water (K.F.) <=0.2 %
Residue on evaporation <=100 ppm	Acidity (acetic acid) <=500 ppm	

Code	Size	Packaging
325631	ml 1000	Glass bottle
325633	kg 24	Metal drum

## Isobutyl alcohol

Isobutanolo - Isobutanol - Isobutanol

(CH<sub>3</sub>)<sub>2</sub>CHCH<sub>2</sub>OH

Atomic weight: 74,124  
CAS N: 78-83-1  
EEC N: 201-148-0

Transport classification  
ONU n. 1212  
Transport class: 3  
Packaging group: III



R: 10-37/38-41-67  
S: 7/9-13-26-37/39-46

## Isobutyl alcohol - Analytical Grade

## RPE-ACS-for analysis



Assay (GLC) >=99 %	Description Clear liquid	Colour (APHA) <=10
Identification (I.R.) Positive	Fluorescence Conform	Water solubility Conform
Density at 20° C 0.801 ± 0.803	Refractive index at 20° 1.3945 ± 1.3975	Boiling point 105 ± 109 ° C
Water (K.F.) <=0.1 %	Residue on evaporation <=10 ppm	Carbonyl Compounds (CO) <=100 ppm
Acidity (acetic acid) <=100 ppm	Acidity (butirric acid) <=50 ppm	Alcalinity (NH <sub>3</sub> ) <=10 ppm
Indole base <=0.1 ppm		

Code	Size	Packaging
414211	ml 1000	Glass bottle
414213	kg 22	Metal drum

## Isobutyl alcohol - Special Grade

## Isobutyl alcohol - Special Grade

## RS-Anhydrous-for analysis

sds

Assay (GC) >= 99.5 %	Refractive index at 20°C 1.394 - 1.398	Colour <= 10 Hazen
Water content (K.F.) <= 200 mg/Kg	Non volatile residue <= 10 mg/Kg	1-butanol <= 0.4 %
Free acid (as CH <sub>3</sub> COOH) <= 40 mg/Kg		

Code	Size	Packaging
P0531016	ml 1000	Glass bottle

For further information on above products, see following product/application section(s)  
Anhydrous solvents (p. 27)

## Isobutyl alcohol - Technical Grade

## PS-Pure-for synthesis

sds

Assay (GC) >= 99 %	Refractive index at 20°C 1.394 - 1.398	Colour <= 10 Hazen
Water content (K.F.) <= 1000 mg/Kg	Non volatile residue <= 50 mg/Kg	1-butanol <= 0.4 %
Free acid (as CH <sub>3</sub> COOH) <= 40 mg/Kg		

Code	Size	Packaging
P0530268	l 200	Metal drum

## RE-Pure

CARLO ERBA  
Quality since 1829

Assay (GLC) >= 97 %	Description Clear colourless liquid	Density at 20° C 0.800 + 0.804
Refractive index at 20° 1.3930 + 1.3990	Boiling point 105.0 + 109.0 °C	Water (K.F.) <= 0.5 %
Residue on evaporation <= 100 ppm	Acidity (acetic acid) <= 100 ppm	

Code	Size	Packaging
308303	kg 22	Metal drum

## Isobutyric acid

Acido iso-butirico - Acide isobutyrique - Acido isobutirico

(CH<sub>3</sub>)<sub>2</sub>CHCOOH  
Atomic weight: 88,10  
CAS N: 79-31-2  
EEC N: 201-195-7

Transport classification  
ONU n. 2529  
Transport class: 3  
Secondary risk: 8  
Packaging group: III

R: 21/22

## Isobutyric acid - Analytical Grade

## RPE-For analysis

CARLO ERBA  
Quality since 1829

Assay (GLC) >= 99 %	Description Clear colourless liquid	Density at 20° C 0.945 + 0.955
Refractive index at 20° 1.3900 + 1.3960	Boiling point 153.1 + 155.6 °C	Chloride <= 50 ppm
Heavy metals (Pb) <= 20 ppm	Residue on ignition <= 100 ppm	Sulphate <= 50 ppm
Fe <= 10 ppm		

Code	Size	Packaging
403272	ml 500	Glass bottle

## L(+)-Isoleucine

L(+)-Isoleucina - L(+)-Isoleucine - L(+)-Isoleucina

CH<sub>3</sub>CH<sub>2</sub>(CH<sub>3</sub>)CHCHNH<sub>2</sub>COOH  
Atomic weight: 131,18  
CAS N: 73-32-5  
EEC N: 200-798-2

## L(+)-Isoleucine - Analytical Grade

## RPE-For analysis

CARLO ERBA  
Quality since 1829

Assay (non-aqueous medium) >= 99 %	Description White crystalline powder	Melting point 283.0 + 285.0 ° C
Specific optical rotation +10.8 + 11.8 °	Loss on drying <= 0.1 %	Ammonium <= 10 ppm
Chloride <= 50 ppm	Total phosphorus <= 10 ppm	Heavy metals (Pb) <= 10 ppm
Residue on ignition <= 500 ppm	Tyrosine <= 200 ppm	Total sulphur <= 50 ppm
Fe <= 10 ppm		

Code	Size	Packaging
457957	g 1	Glass bottle

For biochemistry

## Isooctane

Isoottano - Isooctane - Isooctano

C<sub>8</sub>H<sub>18</sub>  
Atomic weight: 114,23  
CAS N: 540-84-1  
EEC N: 208-759-1

Transport classification  
ONU n. 1262  
Transport class: 3  
Packaging group: II

R: 11-38-50/53-65-67  
S: 9-16-29-33-60-61-62

Synonyms  
2,2,4-Trimethylpentane

## Isooctane - Analytical Grade

## Isooctane - Analytical Grade



## RPE-ACS-for analysis

<b>Assay (GLC) &gt;=99.5 %</b>	Description Clear liquid	Colour (APHA) <=10
Density at 20° C 0.687 ± 0.697	Refractive index at 20° 1.3885 ± 1.3945	Boiling point 98.2 ± 100.2 ° C
Water (K.F.) <=200 ppm	Residue on evaporation <=10 ppm	Acidity (acetic acid) <=50 ppm
Total sulphur <=10 ppm		

Code	Size	Packaging
456734	ml 1000	Glass bottle
456732	ml 2500	Glass bottle

## Isooctane - Special Grade



## RS-For HPLC-Isocratic Grade

<b>Assay (GC) &gt;= 99.5 %</b>	Refractive index at 20°C 1.389 - 1.393	Water content (K.F.) <= 50 mg/Kg
Colour <= 10 Hazen	UV transmittance at 220 nm >= 70 %	UV transmittance at 230 nm >= 85 %
UV transmittance at 260 nm >= 95 %	UV transmittance at 270 nm >= 97 %	Aromatic compounds <= 5 mg/Kg
Non volatile residue <= 5 mg/Kg	Free acid (as CH <sub>3</sub> COOH) <= 20 mg/Kg	

Code	Size	Packaging
P0633716	ml 1000	Glass bottle
P0633721	ml 2500	Glass bottle

For further information on above products, see following product/application section(s)  
Chromatography (p. 34)

## RS-For HPLC-Isocratic Grade



<b>Assay (GLC) &gt;=99.5 %</b>	Description Clear colourless liquid	Density at 20° C 0.687 ± 0.697
Refractive index at 20° 1.3885 ± 1.3945	Boiling point 98.2 ± 100.2 ° C	Water (K.F.) <=100 ppm
Residue on evaporation <=2 ppm	Acidity or alkalinity <=0.0002 meq/g	<b>U.V. Transmittance -</b>
at 200 nm >=15 %	at 210 nm >=50 %	at 220 nm >=80 %
at 230 nm >=90 %	at 240 nm >=95 %	at 260 nm >=99 %
<b>Filtered at 0.2 µm -</b>		

Code	Size	Packaging
412441	ml 1000	Glass bottle

For further information on above products, see following product/application section(s)  
Chromatography (p. 34)

## RS-For HPLC-PLUS-Gradient Grade



<b>Assay (GLC) &gt;= 99.5 %</b>	Description Clear liquid	Colour <= 10 hazen
Water <= 50 ppm	Not volatile residue <= 5 ppm	Free acids (CH <sub>3</sub> COOH) <= 20 ppm
Aromatic compounds <= 5 ppm	<b>U.V. Transmittance -</b>	at 220 nm >= 70 %
at 230 nm >= 85 %	at 260 nm >= 95 %	at 270 nm >= 97 %

Code	Size	Packaging
412462	ml 2500	Glass bottle

## RS-For optical spectroscopy



<b>Assay (GLC) &gt;=99.5 %</b>	Description Clear liquid	Colour (APHA) <=10
Density at 20° C 0.687 ± 0.697	Refractive index at 20° 1.3885 ± 1.3945	Boiling point 98.2 ± 100.2 ° C
Acidity or alkalinity <=0.0002 meq/g	Water (K.F.) <=100 ppm	Residue on evaporation <=2 ppm
<b>Fluorescence -</b>	at 254 nm <=2 ppb	at 365 nm <=2 ppb
<b>U.V. Transmittance -</b>	at 200 nm >=40 %	at 210 nm >=63 %
at 220 nm >=80 %	at 230 nm >=96 %	at 240 nm >=99 %
at 250 nm >=99 %		

Code	Size	Packaging
456754	ml 1000	Glass bottle

Spectrophotometric analysis (1 cm - ref. Water)

For further information on above products, see following product/application section(s)  
Solvents for spectroscopy (p. 68)

## RS-For residual pesticides analysis



<b>Assay (GLC) &gt;=98 %</b>	Description Clear colourless liquid	Density at 20° C 0.687 ± 0.697
Water (K.F.) <= 200 ppm	Residue on evaporation <=2 ppm	GC-ECD (Lindano) <=5 ng/l
GC_NPD (Parathion) <=10 ng/l		

Code	Size	Packaging
456761	ml 1000	Glass bottle

GC-ECD: < 5 pg/ml GC-NPD: < 10 pg/ml.

For further information on above products, see following product/application section(s)  
Special products for environmental analysis (p. 81)

## RS-PESTIPUR-for pesticide analysis



<b>Assay (GC) &gt;= 99.5 %</b>	Refractive index at 20°C 1.389 - 1.393	Water content (K.F.) <= 50 mg/Kg
Colour <= 10 Hazen	Non volatile residue <= 2 mg/Kg	GC-ECD.Individual peak (Lindane) <= 3 ng/l
<b>Retention time trichlorobenzene to mirex -</b>	Free acid (as CH <sub>3</sub> COOH) <= 20 mg/Kg	GC-NPD.Individual peak (Ethylparathion) <= 3 ng/l
<b>Retention time Atrazin to Coumaphos -</b>		

Code	Size	Packaging
P0632216	ml 1000	Glass bottle
P0632221	ml 2500	Glass bottle

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
M  
N  
O  
P  
Q  
R  
S  
T  
U  
V  
W  
X  
Y  
Z

## Isooctane - Special Grade

## RS-PLUS-for residual pesticide analysis



Assay (GLC) >= 99.5 %	Description Clear colourless liquid	Colour <= 10 hazen
Water <= 50 ppm	Free acids (CH <sub>3</sub> COOH) <= 20 ppm	Not volatile residue <= 5 ppm
GC-ECD (Lindano) <= 3 ng/l	GC-NPD (Ethylparation) <= 3 ng/l	

Code	Size	Packaging
456791	ml 1000	Glass bottle
456792	ml 2500	Glass bottle

For further information on above products, see following product/application section(s)  
Special products for environmental analysis (p. 81)

## RS-SPECTROSOL-for optical spectroscopy



Assay (GC) >= 99.5 %	Refractive index at 20°C 1.389 - 1.393	Water content (K.F.) <= 50 mg/Kg
Colour <= 10 Hazen	UV transmittance at 210 nm >= 45 %	UV transmittance at 220 nm >= 72 %
UV transmittance at 230 nm >= 85 %	UV transmittance at 255 nm >= 98 %	Aromatic compounds <= 5 mg/Kg
Non volatile residue <= 5 mg/Kg	Free acid (as CH <sub>3</sub> COOH) <= 20 mg/Kg	

Code	Size	Packaging
P0632716	ml 1000	Glass bottle
P0632721	ml 2500	Glass bottle

For further information on above products, see following product/application section(s)  
Solvents for spectroscopy (p. 68)

## RS-Standard for refractometry



Description Clear colourless liquid	Density at 20° C 0.687 ± 0.697	Refractive index at 20° 1.388 ± 1.394
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Code	Size	Packaging
456641	ml 100	Glass bottle

The right refractive index value is indicated on the label

## Isooctane - Technical Grade

## PS-Pure-for synthesis



Assay (GC) >= 99 %	Refractive index at 20°C 1.389 - 1.393	Water content (K.F.) <= 150 mg/Kg
Non volatile residue <= 20 mg/Kg	Colour <= 10 Hazen	Aromatic compounds <= 50 mg/Kg
Identification (IR) Conform	Total sulphur (S) <= 10 ppm	

Code	Size	Packaging
P0630228	ml 5000	Plastic drum
P0630240	l 10	Metal tank
P0630248	l 25	Metal drum
P0630268	l 200	Metal drum

## RE-Pure



Assay (GLC) >= 99 %	Description Clear liquid	Density at 20°C 0.687 ± 0.697
Refractive index at 20°C 1.3885 ± 1.3945	Boiling point 98.2 ± 100.2 °C	Residue on evaporation <= 20 ppm
Water (K.F.) <= 200 ppm	Aromatics <= 100 ppm	Total sulphur <= 10 ppm

Code	Size	Packaging
528960	ml 5000	Metal tank
528961	l 25	Metal drum

## Isophorone

Isophorone - Isophorone - Isoforona

**C<sub>10</sub>H<sub>16</sub>O**  
Atomic weight: 138,20  
CAS N: 78-59-1  
EEC N: 201-126-0



Synonyms

Triméthyl-3,3,5cyclohexene-2 one-1

R: 21/22-36/37-40  
S: 13-23-36/37/39-46

## Isophorone - Analytical Grade

## RPE-For analysis



Assay (GLC) >= 97.5 %	Description Yellow clear liquid	Refractive index at 20° 1.4750 ± 1.4790
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Code	Size	Packaging
456771	ml 250	Glass bottle
456772	ml 1000	Glass bottle

## Isopropyl acetate

Isopropile acetato - Isopropyle acétate - Isopropilo acetato

**CH<sub>3</sub>COOCH(CH<sub>3</sub>)<sub>2</sub>**  
Atomic weight: 102,13  
CAS N: 108-21-4  
EEC N: 203-561-1

Transport classification  
ONU n. 1220  
Transport class: 3  
Packaging group: II



R: 11-36-66-67  
S: 16-26-29-33

## Isopropyl acetate - Analytical Grade



## Isopropyl acetate - Analytical Grade

## PA-PUREX-for analysis

sds

Assay (GC) >= 99 %	Refractive index at 20°C 1.375 - 1.379	Water content (K.F.) <= 100 mg/Kg
Non volatile residue <= 10 mg/Kg	Colour <= 10 Hazen	Free acid (as CH <sub>3</sub> COOH) <= 100 mg/Kg

Code	Size	Packaging
P0890528	ml 5000	Metal tank

## RPE-For analysis

CARLO ERBA  
Quality since 1928

Assay (GLC) >=99 %	Description Clear colourless liquid	Diethyl ether miscib. complete
Density at 20° C 0.869 ± 0.875	Refractive index at 20° 1.3730 ± 1.3810	Boiling point 87.9 ± 88.9 ° C
Water (K.F.) <=0.1 %	Residue on evaporation <=20 ppm	Acidity (acetic acid) <=20 ppm
Carbonyl Compounds (CO) <=20 ppm	Heavy metals (Pb) <=1 ppm	Subst. reducing KMnO <sub>4</sub> <=5 ppm(10m)

Code	Size	Packaging
474821	ml 250	Glass bottle

## Isopropyl acetate - Technical Grade

## PS-Pure-for synthesis

sds

Assay (GC) >= 99 %	Refractive index at 20°C 1.375 - 1.379	Water content (K.F.) <= 800 mg/Kg
Non volatile residue <= 20 mg/Kg	Colour <= 10 Hazen	Free acid (as CH <sub>3</sub> COOH) <= 100 mg/Kg

Code	Size	Packaging
P0890228	ml 5000	Plastic drum
P0890240	l 10	Metal tank
P0890268	l 200	Metal drum

## Isopropyl alcohol

Alcole isopropilico - Propanol-2 - Alcohol isopropilico

CH<sub>3</sub>CHOHCH<sub>2</sub>CH<sub>3</sub>  
 Atomic weight: 60,097  
 CAS N: 67-63-0  
 EEC N: 200-661-7

Transport classification  
 ONU n. 1219  
 Transport class: 3  
 Transport class: 3.B.20  
 Packaging group: II



## Isopropyl alcohol - Analytical Grade

## PA-PUREX-for analysis

sds

Assay (GC) >= 99.8 %	Refractive index at 20°C 1.375 - 1.379	Water content (K.F.) <= 1000 mg/Kg
Non volatile residue <= 10 mg/Kg	Colour <= 10 Hazen	Free acid (as CH <sub>3</sub> COOH) <= 10 mg/Kg

Code	Size	Packaging
P0950522	ml 5000	Plastic drum
P0950541	l 10	Plastic drum
P0950568	l 200	Metal drum

## RPE-ACS-for analysis-Reag. Ph.Eur.-Reag. USP

CARLO ERBA  
Quality since 1928

Assay (GLC) >= 99.7 %	Description Clear liquid	Colour (APHA) <= 10
Identification (I.R.) Conform	Water miscibility Conform	Density at 20° C 0.785 ± 0.789
Refractive index at 20° 1.3766 ± 1.3786	Boiling point 82.1 ± 82.6 ° C	Water (K.F.) <= 0.1 %
Residue on evaporation <= 10 ppm	Acidity or alkalinity <= 0.0001 meq/g	Carbonyl compounds (acetone) <= 20 ppm
Carbonyl compounds (propionaldehyde) <= 20 ppm	Subst. reducing KMnO <sub>4</sub> <= 5 ppm	Heavy metals (Pb) <= 1 ppm
Al <= 0.5 ppm	B <= 0.02 ppm	Ba <= 0.5 ppm
Ca <= 0.5 ppm	Cd <= 0.01 ppm	Co <= 0.01 ppm
Cr <= 0.01 ppm	Cu <= 0.01 ppm	Fe <= 0.1 ppm
Mg <= 0.1 ppm	Mn <= 0.01 ppm	Ni <= 0.01 ppm
Pb <= 0.01 ppm	Zn <= 0.01 ppm	

Code	Size	Packaging
415154	ml 1000	Glass bottle
415156	ml 2500	Glass bottle
415158	ml 2500	Plastic bottle
415173	ml 5000	Bottle
415157	l 25	Polythene-metal drum
415152	l 200	Metal drum

For further information on above products, see following product/application section(s)  
 Microscopy (p. 58)

## RPE-For analysis

CARLO ERBA  
Quality since 1928

Assay >= 95 %	Description Clear liquid	Colour <= 10 APHA
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Code	Size	Packaging
415121	ml 2500	Plastic bottle
415123	ml 5000	Bottle

## Isopropyl alcohol - Special Grade

## Isopropyl alcohol - Special Grade

## RS-Anhydrous-for analysis

sds

Assay (GC) >= 99.8 %	Refractive index at 20°C 1.375 - 1.379	Water content (K.F.) <= 300 mg/Kg
Non volatile residue <= 10 mg/Kg	Colour <= 10 Hazen	Free acid (as CH <sub>3</sub> COOH) <= 10 mg/Kg

Code	Size	Packaging
P0951016	ml 1000	Glass bottle
P0951049	l 25	Plastic drum

For further information on above products, see following product/application section(s)

Anhydrous solvents (p. 27)

## RS-For HPLC-Isocratic Grade

sds

Assay (GC) >= 99.8 %	Refractive index at 20°C 1.375 - 1.379	Water content (K.F.) <= 500 mg/Kg
Colour <= 10 Hazen	UV transmittance at 210 nm >= 20 %	UV transmittance at 230 nm >= 75 %
UV transmittance at 260 nm >= 98 %	Non volatile residue <= 7 mg/Kg	UV transmittance at 220 nm >= 50 %
Free acid (as CH <sub>3</sub> COOH) <= 10 mg/Kg		

Code	Size	Packaging
P0953716	ml 1000	Glass bottle
P0953721	ml 2500	Glass bottle

For further information on above products, see following product/application section(s)

Chromatography (p. 34)

## RS-For HPLC-Isocratic Grade

CARLO ERBA  
Quality since 1874

Assay (GLC) >=99.5 %	Description Clear colourless liquid	Density at 20° C 0.784 ± 0.786
Refractive index at 20° 1.3766 ± 1.3786	Boiling point 82.1 ± 82.6 ° C	Acidity or alkalinity <=0.0001 meq/g
Water (K.F.) <=0.1 %	Residue on evaporation <=2 ppm	<b>U.V. Transmittance -</b>
at 220 nm >=63 %	at 230 nm >=79 %	at 240 nm >=89 %
at 250 nm >=96 %	at 260 nm >=98 %	at 270 nm >=99 %

Code	Size	Packaging
412421	ml 1000	Glass bottle

For further information on above products, see following product/application section(s)

Chromatography (p. 34)

## RS-For HPLC-PLUS-Gradient Grade

CARLO ERBA  
Quality since 1874

Assay (GLC) >=99.5 %	Description Clear colourless liquid	Density at 20° C 0.784 ± 0.786
Refractive index at 20° 1.3766 ± 1.3786	Boiling point 82.1 ± 82.6 ° C	Acidity or alkalinity <=0.0001 meq/g
Water (K.F.) <=0.1 %	Residue on evaporation <=2 ppm	<b>Fluorescence -</b>
at 254 nm <=2 ppb	at 365 nm <=2 ppb	<b>U.V. Transmittance -</b>
at 220 nm >=63 %	at 230 nm >=79 %	at 240 nm >=89 %
at 250 nm >=96 %	at 260 nm >=98 %	at 270 nm >=99 %

Code	Size	Packaging
412711	ml 1000	Glass bottle
412712	ml 2500	Glass bottle

For further information on above products, see following product/application section(s)

Chromatography (p. 34)

## RS-For optical spectroscopy

CARLO ERBA  
Quality since 1874

Assay (GLC) >=99.8 %	Description Clear liquid	Colour (APHA) <=10
Density at 20° C 0.784 ± 0.786	Refractive index at 20° 1.3766 ± 1.3786	Boiling point 82.1 ± 82.6 ° C
Water (K.F.) <=500 ppm	Residue on evaporation <=5 ppm	Acidity <=0.0005 meq/g
Alcalinity <=0.0002 meq/g	<b>Fluorescence -</b>	at 254 nm <=2 ppb
at 365 nm <=2 ppb	<b>U.V. Transmittance -</b>	at 205 nm >=10 %
at 215 nm >=50 %	at 230 nm >=80 %	at 250 nm >=95 %
at 260 nm >=98 %		

Code	Size	Packaging
415213	ml 1000	Glass bottle

Spectrophotometric analysis (1 cm - ref. Water)

For further information on above products, see following product/application section(s)

Solvents for spectroscopy (p. 68)

## RS-For preparative HPLC

CARLO ERBA  
Quality since 1874

Assay (GLC) >=99.5 %	Description Clear colourless liquid	Density at 20° C 0.784 ± 0.786
Refractive index at 20° 1.3766 ± 1.3786	Boiling point 82.1 ± 82.6 ° C	Water (K.F.) <=500 ppm
Residue on evaporation <=5 ppm	Alcalinity (NH <sub>3</sub> ) <=0.0002 meq/g	<b>U.V. Transmittance -</b>
at 220 nm >=50 %	at 255 nm >=98 %	

Code	Size	Packaging
415112	ml 2500	Glass bottle

Filtered at 1 mm

For further information on above products, see following product/application section(s)

Chromatography (p. 34)

## Isopropyl alcohol - Special Grade



## RS-For residual pesticides analysis

Assay (GLC) >=99.8 %	Description Clear colourless liquid	Density at 20° C 0.784 ± 0.786
Water (K.F.) <=0.1 %	Residue on evaporation <=2 ppm	GC-ECD (Lindano) <=5 ng/l
GC_NPD (Parathion) <=10 ng/l		

Code	Size	Packaging
415201	ml 1000	Glass bottle

GC-ECD: &lt; 5 pg/ml GC-NPD: &lt; 10 pg/ml.

For further information on above products, see following product/application section(s)

Special products for environmental analysis (p. 81)

## RS-MOS For electronic use-ERBATRON



Assay (GLC) >=99.7 %	Description Clear liquid	Colour (APHA) <=10
Water miscibility Conform	Resistivity >=10 Mohm.cm	Density at 20° C 0.784 ± 0.786
Boiling point 82.1 + 82.6 ° C	Water (K.F.) <=500 ppm	Residue on evaporation <=5 ppm
Acidity (propionic ac.) <=10 ppm	Alcalinity (NH3) <=2 ppm	Aldeides - ketones <=50 ppm
Chloride <=0.2 ppm	Phosphate <=0.5 ppm	Heavy metals (Pb) <=0.1 ppm
Subst. reducing KMnO4 <=2.5 ppm	Total sulphur <=1 ppm	Ag <=0.02 ppm
Al <=0.05 ppm	As <=0.01 ppm	Au <=0.05 ppm
B <=0.01 ppm	Ba <=0.1 ppm	Be <=0.02 ppm
Bi <=0.02 ppm	Ca <=0.2 ppm	Cd <=0.01 ppm
Co <=0.01 ppm	Cr <=0.01 ppm	Cu <=0.01 ppm
Fe <=0.1 ppm	Ga <=0.02 ppm	In <=0.02 ppm
K <=0.1 ppm	Li <=0.02 ppm	Mg <=0.1 ppm
Mn <=0.01 ppm	Mo <=0.05 ppm	Na <=0.5 ppm
Ni <=0.01 ppm	Pb <=0.01 ppm	Pt <=0.05 ppm
Sb <=0.01 ppm	Sn <=0.02 ppm	Sr <=0.02 ppm
Ti <=0.05 ppm	Tl <=0.05 ppm	V <=0.05 ppm
Zn <=0.01 ppm	Zr <=0.05 ppm	

Code	Size	Packaging
415161	ml 2500	Glass bottle

Minimum order: 48 bottles

## RS-RSE For electronic use-ERBATRON



Assay (GLC) >=99.7 %	Description Clear liquid	Colour (APHA) <=10
Density at 20° C 0.784 ± 0.786	Residue on evaporation <=10 ppm	Water (K.F.) <=500 ppm
Cr <=10 ppb	Fe <=100 ppb	Ni <=10 ppb
Cu <=10 ppb	Al <=50 ppm	Zn <=10 ppm
Acidity (propionic ac.) <=10 ppm	Subst. reducing KMnO4 <=2.5 ppm (O)	Aldeides - ketones <=50 ppm
Alcalinity (NH3) <=2 ppm	Chloride <=0.2 ppm	Phosphate <=0.5 ppm
Total sulphur <=1 ppm (S)	Heavy metals (Pb) <=0.1 ppm	Ag <=0.02 ppm
As <=0.01 ppm	Au <=0.05 ppm	B <=0.01 ppm
Ba <=0.1 ppm	Be <=0.02 ppm	Bi <=0.02 ppm
Ca <=0.5 ppm	Cd <=0.01 ppm	Co <=0.01 ppm
Ga <=0.02 ppm	In <=0.02 ppm	K <=0.1 ppm
Li <=0.02 ppm	Mg <=0.1 ppm	Mn <=0.01 ppm
Mo <=0.05 ppm	Na <=0.5 ppm	Pb <=0.01 ppm
Pt <=0.05 ppm	Sb <=0.01 ppm	Sn <=0.02 ppm
Sr <=0.02 ppm	Ti <=0.05 ppm	Tl <=0.05 ppm
V <=0.05 ppm	Zr <=0.05 ppm	

Code	Size	Packaging
415237	ml 1000	Glass bottle
415235	ml 2500	Glass bottle
415231	ml 5000	Metallic can
415238	ml 5000	Plastic bottle
415236	l 27	Polythene-metal drum
415233	l 200	Drum

## RS-SPECTROSOL-for optical spectroscopy



Assay (GC) >= 99.8 %	Refractive index at 20°C 1.375 - 1.379	Water content (K.F.) <= 500 mg/Kg
Colour <= 10 Hazen	UV transmittance at 210 nm >= 25 %	UV transmittance at 220 nm >= 55 %
UV transmittance at 230 nm >= 75 %	UV transmittance at 250 nm >= 95 %	UV transmittance at 260 nm >= 98 %
Non volatile residue <= 5 mg/Kg	Free acid (as CH3COOH) <= 10 mg/Kg	

Code	Size	Packaging
P0952716	ml 1000	Glass bottle
P0952721	ml 2500	Glass bottle

For further information on above products, see following product/application section(s)

Solvents for spectroscopy (p. 68)

## RS-VSLI For electronic use-ERBATRON



Code	Size	Packaging
527690	ml 2500	Glass bottle
527691	l 30	Tank

## Isopropyl alcohol - Pharmaceutical Grade

## Isopropyl alcohol - Pharmaceutical Grade

RPH-According to pharmacopoeia: Ph.Eur.-USP-Ph.Franc.-BP



Assay (GLC) >=99.0 %	Description Clear colourless liquid	Appearance of solution Conform Ph.Eur.
Acidity or alkalinity Conform Ph.Eur.	Peroxide Conform Ph.Eur.	Absorbance Conform Ph.Eur.
Density at 20°C 0.785 + 0.789	Density at 25°C 0.783 + 0.787	Refractive index at 20° 1.376 + 1.378
Water (K.F.) <=0.5 %	Non volat.substances <=20 ppm	Benzene <=2 ppm
Related compounds <=0.3 %	Origin (BSE/TSE) Synthesis	Residual solvents (CPMP/ICH/283/95) Conform

Code	Size	Packaging
309501	ml 1000	Glass bottle
309505	ml 2500	Glass bottle
529165	ml 5000	Plastic tank
309503	kg 160	Metal drum
309504	l 25	Metal drum
529161	l 25	Plastic tank

## Isopropyl alcohol - Technical Grade

PS-Pure-for synthesis



Assay (GC) >= 99.8 %	Refractive index at 20°C 1.375 - 1.379	Water content (K.F.) <= 2000 mg/Kg
Non volatile residue <= 20 mg/Kg	Colour <= 10 Hazen	Free acid (as CH3COOH) <= 20 mg/Kg

Code	Size	Packaging
P0950222	ml 5000	Plastic drum
P0950249	l 25	Plastic drum
P0950268	l 200	Metal drum

## Isopropyl alcohol 70% m/m

Alcole isopropilico 70% m/m - Propanol-2 70% m/m - Alcolol isopropilico 70% m/m

**CH<sub>3</sub>CHOHCH<sub>3</sub>**  
 Atomic weight: 60,097  
 CAS N: 67-63-0  
 EEC N: 200-661-7

**Transport classification**  
 ONU n. 1219  
 Transport class: 3  
 Packaging group: II



R: 11-36-67  
 S: 7-16-24/25-26

## Isopropyl alcohol 70% m/m - Analytical Grade

RPE-For analysis



Description Clear colourless liquid	Density at 20°C 0.856 + 0.862
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Code	Size	Packaging
524161	l 25	Plastic tank

## Isopropyl myristate

Miristato di isopropile - Myristate d'Isopropyle - Isopropilo Miristato

**C<sub>17</sub>H<sub>34</sub>O<sub>2</sub>**  
 Atomic weight: 270,451  
 CAS N: 110-27-0  
 EEC N: 203-751-4

## Isopropyl myristate - Special Grade

RS-For synthesis



Assay (GC) >= 95 %	Refractive index at 20°C 1.434 - 1.437	Water content (K.F.) <= 1000 mg/Kg
Colour <= 15 Hazen	Acid number <= 1 mg KOH /g	Saponification number 202 - 212 mg KOH/g
Iodine number <= 1 g I <sub>2</sub> /100g	Viscosity at 20°C 5 - 6 mPa.s	

Code	Size	Packaging
P6070268	l 200	Metal drum

## Isopropyl myristate - Technical Grade

PS-Pure-for synthesis



Assay (GC) >= 95 %	Refractive index at 20°C 1.434 - 1.437	Water content (K.F.) <= 1000 mg/Kg
Colour <= 15 Hazen	Acid number <= 1 mg KOH /g	Saponification number 202 - 212 mg KOH/g
Iodine number <= 1 g I <sub>2</sub> /100g	Viscosity at 20°C 5 - 6 mPa.s	

Code	Size	Packaging
P6070221	ml 2500	Glass bottle

## Isopropylamine

Isopropilammia - Isopropylamine - Isopropilamina

**C<sub>3</sub>H<sub>9</sub>N**  
 Atomic weight: 59,11  
 CAS N: 75-31-0  
 EEC N: 200-860-9

**Transport classification**  
 ONU n. 1221  
 Transport class: 3  
 Secondary risk: 8  
 Packaging group: I



R: 12-36/37/38  
 S: 16-26-29

## Isopropylamine - Analytical Grade

## Isopropylamine - Analytical Grade



## RPE-For analysis

Assay (GLC)  $\geq 99.5\%$  Description Clear colourless liquid Density at 20° C 0.687 + 0.693  
Residue on evaporation  $\leq 50$  ppm Water (K.F.)  $\leq 0.1\%$

Code	Size	Packaging
474751	ml 100	Glass bottle
474756	ml 1000	Glass bottle

## Itaconic acid

Acido itaconico - Acide itaconique - Acido itacónico

HOOC(CH<sub>2</sub>)CH<sub>2</sub>COOH

Atomic weight: 130,10

CAS N: 97-65-4

EEC N: 202-599-6

## Itaconic acid - Analytical Grade



## RPE-For analysis

Assay (acidimetric) 99.0 % Description Polvere o cristallini bianco giallognoli Melting point 166.5 + 168.5 ° C  
Chloride  $\leq 10$  ppm Heavy metals (Pb)  $\leq 20$  ppm Residue on ignition  $\leq 100$  ppm  
Sulphate  $\leq 50$  ppm Fe  $\leq 10$  ppm

Code	Size	Packaging
407115	g 250	Glass jar

## Kaolin washed

Caolino lavato - Kaolin lavé - Caolín lavado

EEC N: 296-473-8

## Kaolin washed - Technical Grade

## RE-Pure



Description White hazel powder Loss on drying  $\leq 1\%$  Loss on ignition 10.4 + 11.8 %

Code	Size	Packaging
332573	g 5000	Plastic jar
332574	kg 25	Sack

Karl Fischer reagent 5 mg H<sub>2</sub>O/ml-monocomponent-Py free

Transport classification

ONU n. 1760

Transport class: 8

Packaging group: III



R: 20-34

S: 3-9-26-36/37/39-45-61

Karl Fischer reagent 5 mg H<sub>2</sub>O/ml-monocomponent-Py free - Special Grade

## RS-For aquametry



Description Dark red liquid Water equivalent  $\geq 5.0$  mg/ml

Code	Size	Packaging
457011	ml 1000	Glass bottle

For further information on above products, see following product/application section(s)

Aquametry (p. 28)

Karl Fischer reagent 2 mg H<sub>2</sub>O/ml-monocomponent-Py free

Transport classification

ONU n. 1760

Transport class: 8

Packaging group: III



R: 20/21/22-34-51

S: 23-26-36/37-45-61

Karl Fischer reagent 2 mg H<sub>2</sub>O/ml-monocomponent-Py free - Special Grade

## RS-For aquametry



Description Dark red liquid Water equivalent  $\geq 2.0$  mg/ml

Code	Size	Packaging
457021	ml 1000	Glass bottle

For further information on above products, see following product/application section(s)

Aquametry (p. 28)

Karl Fischer reagent 5 mg H<sub>2</sub>O/ml-bicomponent-Py free

Transport classification

ONU n. 1992

Transport class: 3

Secondary risk: 6.1

Packaging group: II



R: 11-23/24/25-39/23/24/25-51

S: 7-16-36/37-45-61

Karl Fischer reagent 5 mg H<sub>2</sub>O/ml-bicomponent-Py free - Special Grade

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
M  
N  
O  
P  
Q  
R  
S  
T  
U  
V  
W  
X  
Y  
Z

**Karl Fischer reagent 5 mg H<sub>2</sub>O/ml-bicomponent-Py free - Special Grade**



**RS-For aquametry**

Description Dark red liquid Water equivalent >= 5.0 mg/ml

Code	Size	Packaging
457041	ml 1000	Glass bottle

For further information on above products, see following product/application section(s)  
Aquametry (p. 28)

**Karl Fischer reagent 2 mg H<sub>2</sub>O/ml-bicomponent-Py free**

Transport classification  
ONU n. 1230  
Transport class: 3  
Secondary risk: 6.1  
Packaging group: II



R: 11-23/24/25-39/23/24/25-51  
S: 7-16-36/37-45-61

**Karl Fischer reagent 2 mg H<sub>2</sub>O/ml-bicomponent-Py free - Special Grade**



**RS-For aquametry**

Description Dark red liquid Water equivalent >= 2.0 mg/ml

Code	Size	Packaging
457051	ml 1000	Glass bottle

For further information on above products, see following product/application section(s)  
Aquametry (p. 28)

**Karl Fischer solvent bicomponent -Py free**

Transport classification  
ONU n. 3286  
Transport class: 3  
Secondary risk: 6.18  
Packaging group: II



R: 11-23/24/25-34-39/23/24/25  
S: 7-16-36/37/39-45

**Karl Fischer solvent bicomponent -Py free - Special Grade**



**RS-For aquametry**

Description Clear colourless liquid

Code	Size	Packaging
457061	ml 1000	Glass bottle

For further information on above products, see following product/application section(s)  
Aquametry (p. 28)

**Karl Fischer reagent 5 KA 5mg H<sub>2</sub>O /ml-bicomponent-Py free**

CAS N: #N/D

Transport classification  
ONU n. 1780  
Transport class: 8  
Secondary risk: 8  
Packaging group: III



R: 20-34-62-63  
S: 9-20-36/37/39-45-60

**Karl Fischer reagent 5 KA 5mg H<sub>2</sub>O /ml-bicomponent-Py free - Special Grade**



**RS-For aquametry**

Description Brown clear liquid Water equivalent >= 5.0 mg/ml

Code	Size	Packaging
457071	ml 1000	Glass bottle

For further information on above products, see following product/application section(s)  
Aquametry (p. 28)

**Karl Fischer solvent KA-bicomponent-Py free**

Transport classification  
ONU n. 2810  
Transport class: 6.1  
Packaging group: II



R: 26/27/28-38-40-48/20/22  
S: 7/9-28-36/37-45

**Karl Fischer solvent KA-bicomponent-Py free - Special Grade**



**RS-For aquametry**

Description Clear colourless liquid

Code	Size	Packaging
457081	ml 1000	Glass bottle

For further information on above products, see following product/application section(s)  
Aquametry (p. 28)

**Kerosene**

Cherosene - Kérosène - Queroseno

Atomic weight: N.D.  
CAS N: 64742-47-8  
EEC N: 265-149-8



R: 65-66  
S: 23-24-62

## Kerosene - Technical Grade

## RE-Pure



Description Clear colourless liquid Boiling point min. &gt;= 193 °C Boiling point max &lt;= 245 °C

Code	Size	Packaging
302575	ml 5000	Plastic drum

## Kieselguhr composed

*Farina fossile composta - Terre de silice composée - Harina fósil compuesta*

## Kieselguhr composed - Special Grade

## RS-For thin layer chromatography according to Stahl



Description Grey powder

Code	Size	Packaging
449895	g 250	Plastic jar
449897	g 1000	Plastic jar

For further information on above products, see following product/application section(s)  
Chromatography (p. 34)

## Kjeldahl antifoam tablets (1g)

*Kjeldahl pastiglie antischiuma (1g) - Kjeldahl Antimousse (1g) - Kjeldahl antiespumante (1g)*

## Kjeldahl antifoam tablets (1g) - Special Grade

## RS-For Kjeldahl



Description White round flat tablets

Code	Size	Packaging
502811	g 1000	Metallic can

For further information on above products, see following product/application section(s)  
Agriculture and food sector analyses (p. 25)

## Kjeldahl catalyst (powder)

*Kjeldahl catalizzatore (polvere) - Catalyseur Kjeldahl (poudre) - Catalizador Kjeldahl (polvo)*

## Kjeldahl catalyst (powder) - Special Grade

## RS-For Kjeldahl



Description White azure powder Functionality Conform

Code	Size	Packaging
435971	g 100	Glass jar
435974	g 1000	Glass jar

## Kjeldahl catalyst according to Wieninger (5 g tablets)

R: 33-52/53  
S: 45-60-61

## Kjeldahl catalyst according to Wieninger (5 g tablets) - Special Grade

## RS-For Kjeldahl



Description Grey round flat tablets

Code	Size	Packaging
502821	1000 x g 5	Metallic can

For further information on above products, see following product/application section(s)  
Agriculture and food sector analyses (p. 25)

## Kjeldahl catalyst for water analysis (5 g tablets)

R: 33  
S: 20/21/22

## Kjeldahl catalyst for water analysis (5 g tablets) - Special Grade

## RS-For Kjeldahl



Description Dark grey round flat tablets

Code	Size	Packaging	Notes
502121	1000 x g 5	Box	4,63 g Potassium sulphate, 0,28 g Copper sulphate, 0,09 g Selenium
502122	1000 x g 5	Box	4,95 g Potassium sulphate, 0,05 g Selenium

For further information on above products, see following product/application section(s)  
Agriculture and food sector analyses (p. 25)

## Kjeldahl copper-potassium catalyst (3,9 g tablets)

R: 51/53  
S: 60-61

### Kjeldahl copper-potassium catalyst (3,9 g tablets) - Special Grade

#### RS-For Kjeldahl



Description Blue speckled round flat tablets

Code	Size	Packaging
502791	1000 x g 3,9	Metallic can
502792	1000 x g 5	Box

For further information on above products, see following product/application section(s)  
Agriculture and food sector analyses (p. 25)

## Kjeldahl selenium catalyst

*Kjeldahl catalizzatore al selenio - Catalyseur Kjeldahl au sélénium - Catalizador Kjeldahl al selenio*

R: 33-51/53  
S: 45-60-61

### Kjeldahl selenium catalyst - Special Grade

#### RS-For Kjeldahl



Description Dark grey round flat tablets

Code	Size	Packaging
502120	1000 x g 5	Metallic can

For further information on above products, see following product/application section(s)  
Agriculture and food sector analyses (p. 25)

## Kjeldahl titanium catalyst

*Kjeldahl catalizzatore al titanio - Catalyseur Kjeldahl au titane - Catalizador Kjeldahl al titanio*

R: 51/53  
S: 60-61

### Kjeldahl titanium catalyst - Special Grade

#### RS-For Kjeldahl



Description Dark grey round flat tablets

Code	Size	Packaging
502123	1000 x g 3,5	Box
502801	1000 x g 5	Metallic can

For further information on above products, see following product/application section(s)  
Agriculture and food sector analyses (p. 25)

## Korbl catalyst

*Korbl catalizzatore - Catalyseur de Korbl - Catalizador Kórbli*



R: 8-20/21/22  
S: 17-36/37

### Korbl catalyst - Special Grade

#### RS-For microanalysis



Description Black powder Functionality Positive

Code	Size	Packaging
435981	g 10	Glass jar

## Kovac reagent

*Kovac reattivo per indolo - Réactif pour l'indole selon Kovac - Kovac reactivo*

Transport classification  
ONU n. 1993  
Transport class: 3,31°C



R: 10-20  
S: 24-25

### Kovac reagent - Special Grade

#### RS-Reagent for indole



Code	Size	Packaging
435922	ml 100	Glass bottle



## Lactic acid

Acido lattico - Acide lactique - Acido láctico

**CH<sub>3</sub>CHOHCOOH**  
 Atomic weight: 90,08  
 CAS N: 79-33-4  
 EEC N: 201-196-2

**Transport classification**  
 ONU n. 3265  
 Transport class: 8  
 Packaging group: III

  
 R: 36/38  
 S: 24/25

## Lactic acid - Pharmaceutical Grade

RPH-According to pharmacopoeia: Ph.Eur.-FU-Ph.Franc.-BP-DAB



<b>Assay (acidimetric) 88.0 + 92.0 %</b>	Description Clear courless liquid	Appearance Conform Ph.Eur.
Reducing substances Conform Ph.Eur.	Ether ins. substances Conform Ph.Eur.	Citric, oxalic, phosphoric acids Conform Ph.Eur.
Density at 20° C 1.20 + 1.21	Sulphated ash <= 0.1 %	Heavy metals (Pb) <=10 ppm
Sulphate <=200 ppm	Ca <=200 ppm	Origin (BSE/TSE) Synthesis
Residual solvents (CPMP/ICH/283/95) Conform		


Code	Size	Packaging
304652	ml 1000	Glass bottle
304651	ml 2500	Glass bottle
304657	kg 70	Plastic drum

Laevorotatory form

## Lactophenol blue solution

Blu lattofenolo soluzione - Bleu de lactophénol en solution - Azul lactofenol solución

**Transport classification**  
 ONU n. 2810  
 Transport class: 6.1  
 Packaging group: II

  
 R: 24/25-34  
 S: 28-45-36/37

## Lactophenol blue solution - Special Grade

RS-For microscopy



Description Dark blue liquid

Code	Size	Packaging
428901	ml 100	Glass bottle

Stain for Bacteriology. It contains phenol, lactic acid.

For further information on above products, see following product/application section(s)

Microscopy (p. 58)

## Lactose

Lattosio - Lactose - Lactosa

**C<sub>12</sub>H<sub>22</sub>O<sub>11</sub>·H<sub>2</sub>O**  
 Atomic weight: 360,32  
 CAS N: 10039-26-6  
 EEC N: 200-559-2

## Lactose - Analytical Grade

PA-PUREX-for analysis



Code	Size	Packaging
P7190544	kg 25	-

RPE-ACS-for analysis



Description White crystalline powder	Dextrose Conform	Sucrose Conform
Water (K.F.) 4.0 + 6.0 %	Water-insoluble matter <=50 ppm	Residue on ignition <=300 ppm
Heavy metals (Pb) <=5 ppm	Fe <=5 ppm	

Code	Size	Packaging
457552	g 250	Plastic jar
457557	g 1000	Plastic jar
457553	kg 25	Carton drum

For biochemistry

## Lactose - Pharmaceutical Grade

RPH-According to pharmacopoeia: Ph.Eur.-NF-FU-Ph.Franc.-BP-DAB



Description White crystalline powder	Appearance of solution Conform Ph.Eur.	Acidity or alkalinity Conform Ph.Eur.
Absorbance Conform Ph.Eur.	Specific optical rotation on dry +54.4 + +55.9 °	Water (K.F.) 4.5 + 5.5 %
Loss on drying <= 0.5 %	Sulphated ash <= 0.1 %	Heavy metals (Pb) <= 5 ppm
Alive aerobic bacteria <= 100 ufc/g	Yeast and mold <= 50 ufc/g	Escherichia coli Absent Ph.Eur.

Code	Size	Packaging
348707	g 1000	Bottle
348702	g 10000	Tank
348703	kg 25	Tank

## Lanolin

Grasso di lana anidro - Lanoline anhydre - Grasa de lana anhidra

CAS N: 8006-54-0  
EEC N: 232-348-6

## Lanolin - Pharmaceutical Grade

## RPH-According to pharmacopoeia: Ph.Eur.-FU



Description Soft yellow mass	Melt prod. description Clear liquid	Acids,alkal.water-solub Conform Ph.Eur.
Oxydable hydrosol.matt. Conform Ph.Eur.	Water absorption capac. Conform Ph.Eur.	Acid value <=1.0
Peroxide value <=20	Saponification value 90 ± 105	Dropping point 38 ± 44 ° C
Loss on drying <=0.5 %	Butylhydroxytoluene <=200 ppm	Sulphated ash <=0.15 %
Chloride <=150 ppm	Paraffins <=1.0 %	Residui pesticidi <= 500 ppb

Code	Size	Packaging
347357	g 1000	Bottle
347359	g 5000	Bottle
347354	kg 50	Drum

## Lanthanum

Lantano - Lanthane - Lantano

Transport classification  
ONU n. 3264R: 34  
S: 26-36/37/39-45

## Lanthanum - Special Grade

## RS-Standard solution for ICP



Code	Size	Packaging	Notes
503681	ml 100	Plastic bottle	Matrice: Nitric acid, conc. 1.000 ppm
503685	ml 100	Plastic bottle	Matrice: Nitric acid, conc. 10.000 ppm
503683	ml 500	Plastic bottle	Matrice: Nitric acid, conc. 1.000 ppm
503687	ml 500	Plastic bottle	Matrice: Nitric acid, conc. 10.000 ppm

Provided with real batch certificate. Verified against NIST Standard Reference

For further information on above products, see following product/application section(s)  
Trace metal analysis (p. 86)

## RS-Standard solution for ICP-MS



Code	Size	Packaging	Notes
505691	ml 50	Plastic bottle	Matrice: Nitric acid, conc. 10 ppm
505692	ml 100	Plastic bottle	Matrice: Nitric acid, conc. 10 ppm
505695	ml 100	Plastic bottle	Matrice: Nitric acid, conc. 100 ppm

For further information on above products, see following product/application section(s)  
Trace metal analysis (p. 86)

## Lanthanum nitrate

Lantano nitrato - Lanthane nitrate - Lantano nitrato

La(NO<sub>3</sub>)<sub>3</sub>·6H<sub>2</sub>O  
Atomic weight: 433,02  
CAS N: 10277-43-7  
EEC N: 233-238-0Transport classification  
ONU n. 1477  
Transport class: 5.1  
Packaging group: IIR: 36/38  
S: 24/25

## Lanthanum nitrate - Analytical Grade

## RPE-For analysis



Assay &gt;= 98.0 % Description White crystalline powder Fe &lt;= 10 ppm

Code	Size	Packaging
457502	g 25	Glass jar
457506	g 250	Plastic jar

## Lanthanum oxide

Lantano ossido - Lanthane oxyde - Lantano oxido

La<sub>2</sub>O<sub>3</sub>  
Atomic weight: 325,82  
CAS N: 1312-81-8  
EEC N: 215-200-5

## Lanthanum oxide - Analytical Grade

## RPE-For analysis

Assay (complexometric) >=99.0 % Description White or pink powder Loss on ignition <=1 %  
Ca <=100 ppm Sr <=20 ppm

Code	Size	Packaging
457511	g 100	Glass jar

## Lead foil

Plombo lamina - Plomb en lames - Plomo hojas

**Pb**  
Atomic weight: 207,21  
CAS N: 7439-92-1  
EEC N: 231-100-4

## Lead foil - Analytical Grade

## RPE-For analysis



Assay 99 + 100 % Description Grey foil

Code	Size	Packaging
468866	g 500	Bottle

(Thickness ~mm 0,7).

## Lead

Plombo - Plomb - Plomo

**Pb**

**Transport classification**  
ONU n. 3264  
ONU n. 3289  
Transport class: 8 R: R61-20/22-33-34-52/53  
Packaging group: II S: 53-45

## Lead - Special Grade

## RS-NORMEX-concentrated solution for AAS



Description Clear colourless liquid Titration factor 0.995 + 1.005

Code	Size	Packaging	Notes
468791	Ampoule	Plastic vial	conc. 1.000 ppm

Concentrated volumetric solution to prepare 1 l of solution 1 mg/ml

**For further information on above products, see following product/application section(s)**

Trace metal analysis (p. 86)

## RS-Quality control standard solution for AAS (graphite furnace)



Code	Size	Packaging	Notes
504364	ml 50	Glass bottle	Matrice: Nitric acid 2%, conc. 0,020 mg/l

**For further information on above products, see following product/application section(s)**

Trace metal analysis (p. 86)

## RS-Standard solution for AAS



Description Clear colourless liquid Titration factor 0.998 + 1.002

Code	Size	Packaging	Notes
497595	ml 100	Glass bottle	conc. 1.000 ppm
497591	ml 500	Plastic bottle	conc. 1.000 ppm

Ready-to-use solution: concentration 1 mg/ml

## RS-Standard solution for ICP



Code	Size	Packaging	Notes
503801	ml 100	Plastic bottle	Matrice: Nitric acid, conc. 1.000 ppm
503805	ml 100	Plastic bottle	Matrice: Nitric acid, conc. 10.000 ppm
503803	ml 500	Plastic bottle	Matrice: Nitric acid, conc. 1.000 ppm
503807	ml 500	Plastic bottle	Matrice: Nitric acid, conc. 10.000 ppm

Provided with real batch certificate. Verified against NIST Standard Reference

**For further information on above products, see following product/application section(s)**

Trace metal analysis (p. 86)

## RS-Standard solution for ICP-MS



Code	Size	Packaging	Notes
505766	ml 50	Plastic bottle	Matrice: Nitric acid, conc. 10 ppm
505767	ml 100	Plastic bottle	Matrice: Nitric acid, conc. 10 ppm
505768	ml 100	Plastic bottle	Matrice: Nitric acid, conc. 100 ppm

**For further information on above products, see following product/application section(s)**

Trace metal analysis (p. 86)

## Lead (II) acetate

Piombo di-acetato - Plomb acétate neutre - Plomo acetato neutro

**Pb(CH<sub>3</sub>COO)<sub>2</sub>·3H<sub>2</sub>O**  
Atomic weight: 379,33  
CAS N: 6080-56-4  
EEC N: 206-104-4

**Transport classification**  
ONU n. 1616  
Transport class: 6.1  
Packaging group: III



R: 61-62-33-48/22  
S: 53-45

## Lead (II) acetate - Analytical Grade

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
M  
N  
O  
P  
Q  
R  
S  
T  
U  
V  
W  
X  
Y  
Z

## Lead (II) acetate - Analytical Grade

## RPE-ACS-for analysis-Reag. Ph.Eur.-Reag. USP



Assay (complexometric) 99.0 + 103.0 %	Description White crystals	Diluted acetic acid insoluble matter <=100 ppm
Chloride <=5 ppm	Nitrate-nitrite (NO3) <=50 ppm	Cu <=20 ppm
Fe <=10 ppm	Ca <=50 ppm	K <=50 ppm
Na <=100 ppm		

Code	Size	Packaging
468935	g 250	Plastic jar
468937	g 1000	Plastic jar
468931	kg 50	Carton drum

## Lead (II) acetate - Technical Grade

## RE-Pure



Assay (complexometric) >= 99.5 %	Description White crystals	Fe <= 20 ppm
Zn <= 50 ppm		

Code	Size	Packaging
357259	g 5000	Plastic jar
357253	kg 25	Carton drum
357254	kg 50	Fibre drum

## Lead (II) acetate basic

*Piombo acetato basico - Plomb acétate basique - Plomo acetato básico*

**Pb(CH<sub>3</sub>COO)<sub>2</sub>Pb(OH)<sub>2</sub>**  
 Atomic weight: 566,48  
 CAS N: 1335-32-6  
 EEC N: 215-630-3

Transport classification  
 ONU n. 2291  
 Transport class: 6.1  
 Packaging group: III



R: 61-33-40-48/22-50/53-62  
 S: 53-45-60-61

## Lead (II) acetate basic - Analytical Grade

## RPE-ACS-for analysis



Assay (alkalimetric) >=33.0 % PbO	Description White powder	Loss on drying <=1.5 %
Water-insoluble matter <=1.0 %	Insol.in dil.acetic ac. <=200 ppm	Chloride <=30 ppm
Nitrate-nitrite (NO3) <=30 ppm	Ca <= 100 ppm	Cu <=20 ppm
Fe <=20 ppm	K <= 200 ppm	Na <= 500 ppm

Code	Size	Packaging
468985	g 250	Plastic jar
468987	g 1000	Plastic jar

## Lead (II) acetate basic solution in water

*Piombo acetato basico soluzione in acqua - Plomb acétate basique en solution dans l'eau - Plomo acetato básico solución en agua*

**Pb(CH<sub>3</sub>COO)<sub>2</sub>Pb(OH)<sub>2</sub>**  
 Atomic weight: 566,480  
 CAS N: 1335-32-6  
 EEC N: 216-630-3

Transport classification  
 ONU n. 3287  
 Transport class: 6.1  
 Packaging group: III



R: 61-62-33-40-48/22  
 S: 53-45

## Lead (II) acetate basic solution in water - Analytical Grade

## RPE-For analysis



Assay >= 23.2 % p/p	Description Clear colourless liquid	Density at 20°C <= 1.32
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Code	Size	Packaging
469001	ml 1000	Bottle

## Lead (II) acetate basic solution in water - Technical Grade

## RE-Pure



Assay 19.5 + 21.5 % Pb	Assay (alkalimetric) 10.2 + 11.6 % PbO	Description Clear colourless liquid
Density at 20° C ~ 1.28	Alkaline,alk.earth met. <=0.25 %	

Code	Size	Packaging
357351	ml 1000	Plastic bottle
357351	ml 1000	Plastic bottle
357352	kg 35	Plastic drum

## Lead (II) acetate solution 5% in water

*Piombo di-acetato soluzione 5% in acqua - Plomb acétate neutre en solution à 5% dans l'eau - Plomo di(acetato) neutro solución 5% en agua*

**Pb(CH<sub>3</sub>COO)<sub>2</sub>·5H<sub>2</sub>O**  
 CAS N: 6080-56-4  
 EEC N: 206-104-4

Transport classification  
 ONU n. 3287  
 Transport class: 6.1  
 Packaging group: III



R: 61-62-33-48/22  
 S: 53-45

## Lead (II) acetate solution 5% in water - Analytical Grade

**Lead (II) acetate solution 5% in water - Analytical Grade****RPE-For analysis**

Description Clear colourless liquid Density at 20° C &gt;=1.03

Code	Size	Packaging
468951	ml 1000	Bottle

**Lead (II) carbonate basic***Piombo carbonato basico - Plomb carbonate basique - Plomo carbonato básico*

**(PbCO<sub>3</sub>)<sub>2</sub>·b(OH)<sub>2</sub>**  
 Atomic weight: 775.60  
 CAS N: 1319-46-6  
 EEC N: 215-290-6

**Transport classification**  
 ONU n. 2291  
 Transport class: 6.1  
 Packaging group: III

R: 61-20/22-33-50/53-62  
 S: 53-45-60-61

**Lead (II) carbonate basic - Analytical Grade****RPE-ACS-for analysis**

**Assay 77 + 80 %** Description White powder Chloride <= 20 ppm  
 Nitrate-nitrite (NO<sub>3</sub>) <= 50 ppm Cd <= 20 ppm Fe <= 50 ppm  
 Zn <= 30 ppm Diluted acetic acid insoluble matter <= 0.02 % Ca <= 100 ppm  
 K <= 0.02 % Na <= 0.05 %

Code	Size	Packaging
469155	g 250	Plastic jar
469157	g 1000	Plastic jar

**Lead (II) nitrate***Piombo nitrato - Plomb nitrate - Plomo nitrato*

**Pb(NO<sub>3</sub>)<sub>2</sub>**  
 Atomic weight: 331.20  
 CAS N: 10099-74-8  
 EEC N: 233-245-9

**Transport classification**  
 ONU n. 1469  
 Transport class: 5.1  
 Secondary risk: 6.1  
 Packaging group: II

R: 8-61-62-20/22-33-50/53  
 S: 17-53-45-60-61

**Lead (II) nitrate - Analytical Grade****RPE-ACS-for analysis-Reag. Ph.Eur.-Reag. USP**

**Assay (complexometric) >= 99.0 %** Description White crystals Dil. HNO<sub>3</sub>-insol. matter <= 50 ppm  
 Chloride <= 10 ppm Ca <= 50 ppm Cu <= 20 ppm  
 Fe <= 10 ppm K <= 50 ppm Na <= 0.02 %

Code	Size	Packaging
469356	g 500	Plastic jar
469357	g 1000	Plastic jar
469353	kg 25	Drum

**Lead (II) nitrate - Technical Grade****RE-Pure**

**Assay (complexometric) >= 98.0 %** Description White crystals Water-insoluble matter <= 0.05 %  
 Chloride <= 50 ppm Loss on drying <= 1 % pH solution 7.5% 3 + 4  
 Cu <= 20 ppm Fe <= 10 ppm

Code	Size	Packaging
358007	g 1000	Plastic jar

**Lead (II) oxide***Piombo ossida - Plomb oxyde - Plomo óxido*

**PbO**  
 Atomic weight: 223.19  
 CAS N: 1317-36-8  
 EEC N: 215-267-0

**Transport classification**  
 ONU n. 2291  
 ONU n. 3077  
 Transport class: 6.1  
 Transport class: 9  
 Packaging group: III

R: 61-20/22-33-62-50/53  
 S: 53-45-60-61

**Lead (II) oxide - Analytical Grade****RPE-For analysis**

**Assay (complexometric) >= 99.0 %** Description Polvere gialla o arancio Chloride <= 20 ppm  
 Insoluble in Acetic ac. <= 200 ppm Nitrate <= 100 ppm Ag <= 5 ppm  
 Ca <= 50 ppm Cu <= 50 ppm Fe <= 20 ppm  
 K <= 50 ppm Na <= 0.02 %

Code	Size	Packaging
469404	g 100	Glass jar
469407	g 1000	Jar

**Lead (II) oxide - Technical Grade**

## Lead (II) oxide - Technical Grade

## RE-Pure

Assay  $\geq 99.8\%$  Description Yellow powder

Code	Size	Packaging
358257	g 1000	Plastic jar
358254	kg 50	Fibre drum

## Lead (II) sulphate

Piombo solfato - Plomb sulfate - Plomo sulfato

PbSO<sub>4</sub>Atomic weight: 303,25  
CAS N: 7446-14-2  
EEC N: 231-198-9

## Transport classification

ONU n. 3077

Transport class: 9

Packaging group: III

R: 61-20/22-33-50/53-62  
S: 53-45-60-61

## Lead (II) sulphate - Analytical Grade

## RPE-For analysis

Assay (complexometric)  $\geq 99.0\%$  Description White powder Loss on ignition  $\leq 0.5\%$   
Chloride  $\leq 20$  ppm Insol.in Ammonium acet.  $\leq 500$  ppm Nitrate Conform  
Fe  $\leq 20$  ppm K  $\leq 500$  ppm Na  $\leq 0.1\%$ 

Code	Size	Packaging
469505	g 250	Plastic jar

White powder

## Lead (IV) oxide

Piombo biossido - Plomb dioxyde - Plomo dióxido

PbO<sub>2</sub>Atomic weight: 239,19  
CAS N: 1309-60-0  
EEC N: 215-174-5

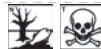
## Transport classification

ONU n. 1872

Transport class: 5.1

Secondary risk: 6.1

Packaging group: III

R: 61-20/22-33-50/53-62  
S: 53-45-60-61

## Lead (IV) oxide - Analytical Grade

## RPE-For analysis

Assay (oxidimetric)  $\geq 97.0\%$  Description Blackish powder Chloride  $\leq 200$  ppm  
Sulphate  $\leq 0.1\%$  HNO<sub>3</sub>-insoluble matter  $\leq 0.05\%$  Substances not ppt. H<sub>2</sub>S  $\leq 0.05\%$   
Loss on drying  $\leq 0.5\%$  Mn  $\leq 20$  ppm

Code	Size	Packaging
469055	g 250	Plastic jar
469057	g 1000	Plastic jar

## Lead (IV) oxide - Technical Grade

## RE-Pure



Assay (oxidimetric) 90 + 100 % Description Black powder

Code	Size	Packaging
357456	g 500	Plastic jar

## Lecithin of soya

Lecitina di soia - Lécithine de soja - Lecitina de soja

CAS N: 8002-43-5  
EEC N: 232-307-2

## Lecithin of soya - Technical Grade

## RE-Pure

Assay (phospholipids as acetone insolubl)  $> 97\%$  Description Yellow granules Water  $< 1\%$   
Acidity index  $< 35$  mg KOH/g Peroxide value  $< 3$  meq O<sub>2</sub>/Kg Insolubles in toluene  $< 0.1\%$ 

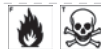
Code	Size	Packaging
348754	g 1000	Plastic jar

## Leishman eosin blue methylene

Leishman eosina blu metilene - Eosine bleu de méthylène de Leishman - Leishman eosina azul de metileno

## Transport classification

ONU n. 1992

Transport class: 3,19<sup>B</sup>R: 11-23-25  
S: 7-16-24

## Leishman eosin blue methylene - Special Grade

## Leishman eosin blue methylene - Special Grade

## RS-For microscopy



Code	Size	Packaging
446681	ml 250	Glass bottle

For further information on above products, see following product/application section(s)  
Microscopy (p. 58)

## Lemovitrex-Erba

Lemovitrex-Erba - Lemovitrex-Erba - Lemovitrex-Erba

Transport classification  
ONU n. 2052  
Transport class: 3  
Packaging group: III



R: 10-38-43  
S: 26-37-60-61

## Lemovitrex-Erba - Special Grade

## RS-For histology



Description Clear colourless liquid Density at 20° C 0.890 ± 0.900 Refractive index at 20° 1.49 ± 1.51

Code	Size	Packaging
457813	6 x ml 100	Glass bottle

For further information on above products, see following product/application section(s)  
Microscopy (p. 58)

## L(+)-Leucine

L(+)-Leucina - L(+)-Leucine - L(+)-Leucina

$C_6H_{12}NO_2$   
Atomic weight: 131,18  
CAS N: 61-90-5  
EEC N: 200-522-0

## L(+)-Leucine - Analytical Grade

## RPE-For analysis



Assay (non-aqueous medium) >=99 %	Description White crystals	Specific optical rotation +15.1 ± +16.1 °
Loss on drying <=0.1 %	Ammonium <=50 ppm	Chloride <=250 ppm
Total phosphorus <=10 ppm	Heavy metals (Pb) <=10 ppm	Residue on ignition <=500 ppm
Tyrosine <=200 ppm	Tryptophan <=300 ppm	Total sulphur <=250 ppm
Fe <=10 ppm		

Code	Size	Packaging
457928	g 5	Glass jar

For biochemistry

## Levulinic acid

Acido levulinico - Acide levulique - Acido levulinico

$CH_3CO(CH_2)_2COOH$   
Atomic weight: 116,11  
CAS N: 123-76-2  
EEC N: 204-649-2



R: 22-36/37/38

## Levulinic acid - Analytical Grade

## RPE-For analysis



Assay (acidimetric) 99 ± 100 %	Description Clear colourless liquid	Melting point 28.0 ± 32.0 ° C
Chloride <=10 ppm	Residue on ignition <=100 ppm	Sulphate <=50 ppm

Code	Size	Packaging
407164	g 100	Glass jar

## Light green

Verde luce SF - Vert lumière SF - Verde claro SF

$C_{17}H_{15}Na_2O_8S_2$   
Atomic weight: 792,86  
CAS N: 5141-20-8  
EEC N: 225-906-5



R: 20/21/22

## Light green - Special Grade

## RS-For microscopy-C.I. 42095



Assay >= 95 %	Description Dark violet powder	Maximum absorption 630 ± 632 nm
Water solubility Conform		

Code	Size	Packaging
491371	g 10	Glass jar

Stain for Bacteriology-botany-cytology.

For further information on above products, see following product/application section(s)  
Microscopy (p. 58)

## Lithium

Litio - Lithium - Litio

Li

Transport classification  
 ONU n. 3264  
 Transport class: 8  
 Packaging group: II  
 Packaging group: III



## Lithium - Special Grade

## RS-NORMEX-concentrated solution for AAS



Description Clear colourless liquid Titration factor 0.995 + 1.005

Code	Size	Packaging	Notes
458211	Ampoule	Plastic vial	conc. 1.000 ppm

Concentrated volumetric solution to prepare 1 l of solution 1 mg/ml

For further information on above products, see following product/application section(s)

Trace metal analysis (p. 86)

## RS-Standard solution for AAS



Description Clear colourless liquid Titration factor 0.998 + 1.002

Code	Size	Packaging	Notes
497525	ml 100	Glass bottle	conc. 1.000 ppm
497521	ml 500	Plastic bottle	conc. 1.000 ppm

Ready-to-use solution: concentration 1 mg/ml

## RS-Standard solution for ICP



Code	Size	Packaging	Notes
503691	ml 100	Plastic bottle	Matrice: Hydrochloric acid, conc. 1.000 ppm
503695	ml 100	Plastic bottle	Matrice: Hydrochloric acid, conc. 10.000 ppm
503693	ml 500	Plastic bottle	Matrice: Hydrochloric acid, conc. 1.000 ppm
503697	ml 500	Plastic bottle	Matrice: Hydrochloric acid, conc. 10.000 ppm

Provided with real batch certificate. Verified against NIST Standard Reference

For further information on above products, see following product/application section(s)

Trace metal analysis (p. 86)

## RS-Standard solution for ICP-MS



Code	Size	Packaging	Notes
505701	ml 50	Plastic bottle	Matrice: Nitric acid, conc. 10 ppm
505702	ml 100	Plastic bottle	Matrice: Nitric acid, conc. 10 ppm
505705	ml 100	Plastic bottle	Matrice: Nitric acid, conc. 100 ppm

For further information on above products, see following product/application section(s)

Trace metal analysis (p. 86)

## RS-Standard solution for ion chromatography



Code	Size	Packaging	Notes
503280	ml 50	Plastic bottle	conc. 1.000 ppm
503281	ml 100	Plastic bottle	conc. 1.000 ppm
503282	ml 250	Plastic bottle	conc. 1.000 ppm
503283	ml 500	Plastic bottle	conc. 1.000 ppm

For further information on above products, see following product/application section(s)

Chromatography (p. 34)

## Lithium aluminium hydride

Litio alluminio idruro - Lithium aluminium hydruide - Litio aluminio hidruro

LiAlH<sub>4</sub>

Atomic weight: 37,95  
 CAS N: 16853-85-3  
 EEC N: 240-877-9

Transport classification  
 ONU n. 1410  
 Transport class: 4.3  
 Packaging group: I



R: 15-11  
S: 43-7-8-16-33

## Lithium aluminium hydride - Technical Grade

## PS-Pure-for synthesis



Code	Size	Packaging
P1140013	g 100	Box

## Lithium carbonate

Litio carbonato - Lithium carbonate - Litio carbonato

Li<sub>2</sub>CO<sub>3</sub>

Atomic weight: 73,887  
 CAS N: 554-13-2  
 EEC N: 209-062-5



R: 20/21/22  
S: 7-13-45

## Lithium carbonate - Analytical Grade



## Lithium carbonate - Analytical Grade

## RPE-ACS-for analysis



Assay (alkalimetric) $\geq 99.0$ %	Description White powder	Chloride $\leq 50$ ppm
Diluted HCl-ins. matter $\leq 100$ ppm	Heavy metals (Pb) $\leq 20$ ppm	Nitrate $\leq 5$ ppm
Total sulphur $\leq 0.2$ %	Ca $\leq 100$ ppm	Fe $\leq 20$ ppm
K $\leq 100$ ppm	Na $\leq 0.1$ %	

Code	Size	Packaging
458204	g 100	Plastic jar
458207	g 1000	Plastic jar

## Lithium carbonate - Technical Grade

## RE-Pure



Assay (non-aqueous medium) $\geq 98$ %	Description White powder	Chloride $\leq 300$ ppm
Diluted HCl-ins. matter $\leq 500$ ppm	Heavy metals (Pb) $\leq 40$ ppm	Sulphate $\leq 0.2$ %
As $\leq 2$ ppm	Fe $\leq 20$ ppm	

Code	Size	Packaging
348955	g 250	Plastic jar
348957	g 1000	Plastic jar

## Lithium chloride

Litio cloruro - Lithium chlorure - Litio cloruro

## LiCl

Atomic weight: 42,392  
CAS N: 7447-41-8  
EEC N: 231-212-3



R: R: 22-36/37/38  
S: S: 26-36/37/39

## Lithium chloride - Analytical Grade

## RPE-ACS-for analysis



Assay (argentimetric) $\geq 99$ %	Description White crystalline powder	Alcalinity $\leq 0.008$ meq/g
Loss on drying $\leq 1.0$ %	Water-insoluble matter $\leq 100$ ppm	Heavy metals (Pb) $\leq 20$ ppm
Nitrate $\leq 10$ ppm	Sulphate $\leq 100$ ppm	Ba $\leq 30$ ppm
Ca $\leq 100$ ppm	Fe $\leq 10$ ppm	K $\leq 100$ ppm
Na $\leq 0.2$ %		

Code	Size	Packaging
458254	g 100	Glass jar
458256	g 500	Plastic jar

For further information on above products, see following product/application section(s)  
Adsorbants (p. 22)

## Lithium chloride - Technical Grade

## RE-Pure



Assay (argentimetric) $\geq 99$ %	Description White crystalline powder	K + Na $\leq 0.35$ %
Umidità (H <sub>2</sub> O) $\leq 0.8$ %	Sulphate $\leq 500$ ppm	Fe $\leq 20$ ppm

Code	Size	Packaging
458271	g 250	Plastic jar
458272	g 1000	Plastic jar
458274	kg 50	Fibre drum

For further information on above products, see following product/application section(s)  
Adsorbants (p. 22)

## Lithium chloride 5% solution

Litio cloruro soluzione 5% - Lithium chlorure 5% - Litio cloruro solución 5%

LiCl·7H<sub>2</sub>O

Atomic weight: 15,484  
CAS N: 10025-84-0

## Lithium chloride 5% solution - Special Grade

## RS-Ionisation standard solution for AAS



Code	Size	Packaging	Notes
504537	ml 500	Plastic bottle	Matrice: Hydrochloric acid, conc. 5%

For further information on above products, see following product/application section(s)  
Trace metal analysis (p. 86)

## Lithium hydride

Litio idruro - Lithium hydrure - Litio hidruro

## LiH

Atomic weight: 7,95  
CAS N: 7580-67-8  
EEC N: 231-484-3

## Transport classification

ONU n. 1414  
Transport class: 4.3  
Secondary risk: 3  
Packaging group: I



R: 15-34  
S: 7/8-24/25-43-45

## Lithium hydride - Technical Grade

## Lithium hydride - Technical Grade

## RE-Pure

Assay (gas volumetric)  $\geq 95\%$  Description Polvere bianco grigiast

Code	Size	Packaging
458303	g 50	Glass jar

## Lithium hydroxide anhydrous

Litio idrossido anidro - Lithium hydroxyde anhydre - Litio hidróxido anhidro

## LiOH

Atomic weight: 23,95  
CAS N: 1310-65-2  
EEC N: 215-183-4

## Transport classification

ONU n. 3262  
Transport class: 8  
Packaging group: IIR: 35  
S: 26-37/39-45

## Lithium hydroxide anhydrous - Analytical Grade

## RPE-For analysis

Assay  $\geq 98\%$  LiOH Description White crystalline powder Carbonate  $\leq 1.5\%$   
Chloride  $\leq 200$  ppm K + Na  $\leq 0.1\%$  Heavy metals (Pb)  $\leq 20$  ppm  
Sulphate  $\leq 500$  ppm Fe  $\leq 20$  ppm

Code	Size	Packaging
458281	g 250	Glass jar

## Lithium hydroxide monohydrate

Litio idrossido monoidrato - Lithium hydroxyde monohydraté - Litio hidróxido monohidratato

LiOH.H<sub>2</sub>OAtomic weight: 41,96  
CAS N: 1310-66-3  
EEC N: 215-183-4

## Transport classification

ONU n. 2680  
Transport class: 8  
Packaging group: IIR: 22-35  
S: 22-26-36/37/39-45

## Lithium hydroxide monohydrate - Analytical Grade

## RPE-For analysis

Assay (acidimetric)  $\geq 98\%$  Description White cryst. powder Carbonate  $\leq 1\%$   
Chloride  $\leq 200$  ppm Heavy metals (Pb)  $\leq 10$  ppm Sulphate  $\leq 500$  ppm  
Ca  $\leq 200$  ppm Fe  $\leq 30$  ppm K  $\leq 100$  ppm  
Mg  $\leq 50$  ppm Na  $\leq 100$  ppm

Code	Size	Packaging
458292	g 1000	Plastic jar

## Lithium methoxide 0.1 mol/l

Litio metilato 0,1 mol/l - Lithium méthylate 0.1 mol/l - Litio metilato 0.1 mol/l

CH<sub>3</sub>LiOAtomic weight: 38,02  
CAS N: 865-34-9  
EEC N: 212-737-7

## Transport classification

ONU n. 1992  
Transport class: 3  
Secondary risk: 6.1  
Packaging group: IIR: 11-20/21/22  
S: 9-16-29-33

## Lithium methoxide 0.1 mol/l - Analytical Grade

## RPE-For analysis



Description Clear colourless liquid Titration factor 0.998 + 1.002

Code	Size	Packaging
458321	ml 500	Bottle

Toluene solution 0,1N ready-to-use

## Lithium nitrate

Litio nitrato - Lithium nitrate - Litio nitrato

LiNO<sub>3</sub>Atomic weight: 68,944  
CAS N: 7790-69-4  
EEC N: 232-218-9

## Transport classification

ONU n. 2722  
Transport class: 5.1  
Packaging group: IIIR: 11-36  
S: 17-26-36

## Lithium nitrate - Analytical Grade

## RPE-For analysis

Assay  $\geq 99.0\%$  Description White crystalline powder Water  $\leq 1\%$   
Alcalinity  $\leq 0.05\%$  Chloride  $\leq 100$  ppm Sulphate  $\leq 500$  ppm  
Fe<sub>2</sub>O<sub>3</sub>  $\leq 50$  ppm

Code	Size	Packaging
458355	g 250	Plastic jar

## Lithium sulfate

*Litio solfato - Lithium sulfate - Litio sulfato***Li<sub>2</sub>SO<sub>4</sub>·H<sub>2</sub>O**Atomic weight: 127,95  
CAS N: 10102-25-7  
EEC N: 233-802-4

## Lithium sulfate - Analytical Grade

## RPE-ACS-for analysis-Reag. Ph.Eur.-Reag. USP



Assay (acidimetric) >=99.0 % s.s.	Description White crystalline powder	Loss on drying 150° C 13.0 + 15.0
Water-insoluble matter <=100 ppm	Chloride <=20 ppm	Nitrate <=10 ppm
Heavy metals (Pb) <=10 ppm	Fe <=10 ppm	K <=500 ppm
Na <=500 ppm		

Code	Size	Packaging
458404	g 100	Plastic jar

## Lithium tetraborate anhydrous

*Litio tetraborato anidro - Lithium tétraborate anhydre - Litio tetraborato anhidro***Li<sub>2</sub>B<sub>4</sub>O<sub>7</sub>**Atomic weight: 169,12  
CAS N: 12007-60-2  
EEC N: 234-514-3

## Lithium tetraborate anhydrous - Technical Grade

## RE-Pure



Assay >= 98 %	Description White powder
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Code	Size	Packaging
458163	g 1000	Plastic jar

## Litmus

*Tomasole - Tournesol - Tornasol*Atomic weight: 3300  
CAS N: 1393-92-6  
EEC N: 215-739-6

## Litmus - Analytical Grade

## RPE-For analysis



Description Dark blue granules	Colour change rosso - blu	pH range 4.8 + 8.3
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Code	Size	Packaging
489054	g 100	Plastic jar

Indicator (pH 4,5+8,3).

## Litmus neutral 2.5% hydroalcoholic solution

Atomic weight: 3300  
CAS N: 1393-92-6  
EEC N: 215-739-6

## Litmus neutral 2.5% hydroalcoholic solution - Analytical Grade

## RPE-For analysis



Description Blue liquid	pH range 5.0 - 8.0
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Code	Size	Packaging
489101	ml 500	Bottle

Indicator (pH 5,0+8,0).

## Loeffler blue methylene solution

*Loeffler blu metilene soluzione - Bleu de méthylène en solution selon Loeffler - Loeffler solución azul de metileno***C<sub>16</sub>H<sub>16</sub>ClN<sub>3</sub>S·3H<sub>2</sub>O**Atomic weight: 373,900  
CAS N: 61-73-4  
EEC N: 200-515-2

## Loeffler blue methylene solution - Special Grade

## RS-For microscopy



Code	Size	Packaging
458262	ml 500	Glass bottle

For further information on above products, see following product/application section(s)  
Microscopy (p. 58)

## Lugol concentrated solution

Lugol soluzione concentrata - Réactif de Lugol en solution concentrée - Lugol reactivo solución concentrada

### Lugol concentrated solution - Special Grade

#### RS-For microscopy



Assay as iodine (oxidimetric) 4.9 + 5.1 % (p/v) Description Liquido limpido rosso bruno

Code	Size	Packaging
458741	ml 1000	Bottle

For further information on above products, see following product/application section(s)  
Microscopy (p. 58)

## Lugol solution for Gram-Hucker kit in water

### Lugol solution for Gram-Hucker kit in water - Special Grade

#### RS-For microscopy



Assay 0.85 + 0.95 %p/p (I2) Description Brown clear liquid

Code	Size	Packaging
458751	ml 250	Plastic bottle

Stain for Bacteriology

For further information on above products, see following product/application section(s)  
Microscopy (p. 58)

## Lugol's iodine

Lugol reattivo soluzione iodo-iodurata - Réactif de Lugol en solution - Lugol reactivo solución yodo-yodurata

### Lugol's iodine - Special Grade

#### RS-For microscopy



Assay as iodine (oxidimetric) 1.9 + 2.1 % p/v Description Brown clear liquid

Code	Size	Packaging
458761	6 x ml 250	Glass bottle
458764	6 x ml 1000	Glass bottle

Stain for Bacteriology.

## Luminol

Luminol - Luminol - Luminol

C6H7N5O2  
Atomic weight: 177,15  
CAS N: 521-31-3  
EEC N: 208-309-4



R: 20/21/22

Synonyms  
Amino-3phtalydrazide

### Luminol - Analytical Grade

#### RPE-For analysis



Assay (acidimetric) 97.5 + 102.5 % Description Polvere verde-giallog.

Code	Size	Packaging
458772	g 25	Glass jar

For chemiluminescence

For further information on above products, see following product/application section(s)  
Indicators (p. 50)

## Lutetium

Lutezio - Lutéthium - Lutecio

### Lutetium - Special Grade

#### RS-Standard solution for ICP-MS



Code	Size	Packaging	Notes
505706	ml 50	Plastic bottle	Matrice: Nitric acid, conc. 10 ppm
505707	ml 100	Plastic bottle	Matrice: Nitric acid, conc. 10 ppm
505708	ml 100	Plastic bottle	Matrice: Nitric acid, conc. 100 ppm

For further information on above products, see following product/application section(s)  
Trace metal analysis (p. 86)

## Lynalol

Linalolo - Linalol - Linalol

### Lynalol - Technical Grade

## Lynalol - Technical Grade

## PS-Pure-for synthesis

sds

Assay (GC) &gt;= 96 % Refractive index at 20°C 1.461 - 1.465 Colour &lt;= 10 Hazen

Code	Size	Packaging
P9550276	ml 250	Glass bottle

## L(+)-Lysine monohydrochloride

L(+)-Lisina monochloridato - L(+)-Lysine monochlorhydrate - L(+)-Lisina monochlorhidrato

NH<sub>2</sub>(CH<sub>2</sub>)<sub>4</sub>CHNH<sub>2</sub>COOH.HCl

Atomic weight: 182,65

CAS N: 657-27-2

EEC N: 211-519-9

## L(+)-Lysine monohydrochloride - Analytical Grade

## RPE-For analysis

CARLO ERBA  
Quality since 1889

Assay (ex nitrogen) >=99 %	Assay (argentimetric) >=99 %	Description White powder
Specific optical rotation +19.5 + 21.5 °	Loss on drying <=0.3 %	Ammonium <=10 ppm
Total phosphorus <=5 ppm	Water-insoluble matter <=50 ppm	Heavy metals (Pb) <=10 ppm
Residue on ignition <=500 ppm	Total sulphur <=30 ppm	Fe <=10 ppm

Code	Size	Packaging
458122	g 25	Glass jar
458124	g 100	Glass jar
458121	g 5000	Plastic jar

For biochemistry

## Magnesiatic mixture

Miscela magnesiaca - Mélange magnésium - Mezcla de magnesio

## Magnesiatic mixture - Analytical Grade

## RPE-For analysis

CARLO ERBA  
Quality since 1889

Description Clear colourless liquid Density at 20° C 1.015 + 1.025

Code	Size	Packaging
463351	ml 1000	Bottle

## Magnesium powder

Magnesio polvere - Magnésium en poudre - Magnesio polvo

Mg  
Atomic weight: 24,32  
CAS N: 7439-95-4  
EEC N: 231-104-6

Transport classification  
ONU n. 1418  
Transport class: 4.3  
Secondary risk: 4.2  
Packaging group: I

R: 15-17  
S: 7/8-43

## Magnesium powder - Analytical Grade

## RPE-For analysis

CARLO ERBA  
Quality since 1889

Assay &gt;=99.5 % Description Grey powder

Code	Size	Packaging
459066	g 500	Metallic can

## Magnesium ribbon

Magnesio nastro - Magnesium en rubans - Magnesio tiras

Mg  
Atomic weight: 24,32  
CAS N: 7439-95-4  
EEC N: 231-104-6

Transport classification  
ONU n. 1869  
Transport class: 4.1  
Packaging group: III

R: 11-15  
S: 7/8-43

## Magnesium ribbon - Analytical Grade

## RPE-For analysis

CARLO ERBA  
Quality since 1889

Assay &gt;= 99 % Description Ribbon

Code	Size	Packaging
459044	g 100	Sack

(Dimension ~mm 0,2 x 3).

## Magnesium turnings

Magnesio tornitura - Magnésium en tournures - Magnesio virutas

Mg  
Atomic weight: 24,32  
CAS N: 7439-95-4  
EEC N: 231-104-6

Transport classification  
ONU n. 1869  
Transport class: 4.1  
Packaging group: III

R: 11-15  
S: 7/8-43

## Magnesium turnings - Analytical Grade

## Magnesium turnings - Analytical Grade

## RPE-For analysis



Assay >= 99.80 % (Mg)	Description Silvery turnings	Other metals <= 0.10 %
<b>Code</b>	<b>Size</b>	<b>Packaging</b>
459085	g 250	Metallic can
459081	kg 50	Carton drum

According to Grignard

## Magnesium

Magnesio - Magnésium - Magnesio

Transport classification  
 ONU n. 3264  
 Transport class: 8  
 Packaging group: II  
 Packaging group: III



R: 36  
 S: 26

## Magnesium - Special Grade

## RS-NORMEX-concentrated solution for AAS



Description Clear colourless liquid	Titration factor 0.995 + 1.005		
<b>Code</b>	<b>Size</b>	<b>Packaging</b>	<b>Notes</b>
458891	Ampoule	Plastic vial	conc. 1.000 ppm

Concentrated volumetric solution to prepare 1 l of solution 1 mg/ml

For further information on above products, see following product/application section(s)

Trace metal analysis (p. 86)

## RS-Standard solution for AAS



Description Clear colourless liquid	Titration factor 0.998 + 1.002		
<b>Code</b>	<b>Size</b>	<b>Packaging</b>	<b>Notes</b>
497535	ml 100	Glass bottle	conc. 1.000 ppm
497531	ml 500	Plastic bottle	conc. 1.000 ppm

Ready-to-use solution: concentration 1 mg/ml

## RS-Standard solution for ICP



<b>Code</b>	<b>Size</b>	<b>Packaging</b>	<b>Notes</b>
503711	ml 100	Plastic bottle	Matrice: Nitric acid, conc. 1.000 ppm
503715	ml 100	Plastic bottle	Matrice: Nitric acid, conc. 10.000 ppm
503713	ml 500	Plastic bottle	Matrice: Nitric acid, conc. 1.000 ppm
503717	ml 500	Plastic bottle	Matrice: Nitric acid, conc. 10.000 ppm

Provided with real batch certificate. Verified against NIST Standard Reference

For further information on above products, see following product/application section(s)

Trace metal analysis (p. 86)

## RS-Standard solution for ICP-MS



<b>Code</b>	<b>Size</b>	<b>Packaging</b>	<b>Notes</b>
505711	ml 50	Plastic bottle	Matrice: Nitric acid, conc. 10 ppm
505712	ml 100	Plastic bottle	Matrice: Nitric acid, conc. 10 ppm
505715	ml 100	Plastic bottle	Matrice: Nitric acid, conc. 100 ppm

For further information on above products, see following product/application section(s)

Trace metal analysis (p. 86)

## RS-Standard solution for ion chromatography



<b>Code</b>	<b>Size</b>	<b>Packaging</b>	<b>Notes</b>
503290	ml 50	Plastic bottle	conc. 1.000 ppm
503291	ml 100	Plastic bottle	conc. 1.000 ppm
503292	ml 250	Plastic bottle	conc. 1.000 ppm
503293	ml 500	Plastic bottle	conc. 1.000 ppm

For further information on above products, see following product/application section(s)

Chromatography (p. 34)

## Magnesium acetate

Magnesio acetato - Magnésium acétate - Magnesio acetato

**Mg(CH<sub>3</sub>COO)<sub>2</sub>·4H<sub>2</sub>O**  
 Atomic weight: 214.46  
 CAS N: 16674-78-5  
 EEC N: 205-554-9

## Magnesium acetate - Analytical Grade

## Magnesium acetate - Analytical Grade

## RPE-ACS-for analysis-Reag. Ph.Eur.-Reag. USP



Assay (complexometric) 98.0 + 102.0 %	Description White crystalline powder	Water-insoluble matter <= 50 ppm
Chloride <= 10 ppm	Sulphate <= 50 ppm	Heavy metals (Pb) <= 5 ppm
Ba <= 10 ppm	Ca <= 100 ppm	Fe <= 5 ppm
K <= 50 ppm	Mn <= 10 ppm	Na <= 50 ppm
Sr <= 50 ppm		

Code	Size	Packaging
459135	g 250	Plastic jar
459137	g 1000	Plastic jar
459131	kg 25	Fibre drum

## Magnesium acetate - Pharmaceutical Grade

## RPH-According to pharmacopoeia: Ph.Eur.



Code	Size	Packaging
349011	kg 25	Drum

## Magnesium acetate - Technical Grade

## RE-Pure



Assay (complexometric) >=99 %	Description Pv xx.na e xx.ni bianchi	Chloride <=50 ppm
Heavy metals (Pb) <=10 ppm	Sulphate <=300 ppm	Ca <=0.3 %
Fe <=20 ppm		

Code	Size	Packaging
348984	kg 25	Fibre drum

## Magnesium ammonium chloride

Magnesio ammonio cloruro - Magnésium ammonium chlorure - Magnesio amonio cloruro

**MgCl<sub>2</sub>NH<sub>4</sub>Cl·H<sub>2</sub>O**  
 Atomic weight: 256,80  
 CAS N: 20522-67-2

## Magnesium ammonium chloride - Analytical Grade

## RPE-For analysis



Assay (complexometric) 97 + 100 %	Description White crystals	pH sol. 5% at 25° C 5.0 + 7.0
Phosphate <=5 ppm	Chloride <=10 ppm	Water-insoluble matter <=50 ppm
Heavy metals (Pb) <=5 ppm	Nitrate <=10 ppm	Sulphate <=50 ppm
As <=1 ppm	Ba <=20 ppm	Ca <=25 ppm
Cu <=2 ppm	Fe <=5 ppm	K <=50 ppm
Mn <=2 ppm	Na <=25 ppm	Ni <=2 ppm
Pb <=2 ppm	Zn <=2 ppm	

Code	Size	Packaging
459185	g 250	Glass jar

## Magnesium carbonate basic

Magnesio carbonato basico - Magnésium carbonate basique - Magnesio carbonato básico

**(MgCO<sub>3</sub>)<sub>x</sub>·Mg(OH)<sub>2</sub>·5H<sub>2</sub>O**  
 Atomic weight: 485,69  
 CAS N: 39409-82-0  
 EEC N: 235-192-7

## Magnesium carbonate basic - Analytical Grade

## RPE-For analysis



Assay (complexometric) 40.0 + 45.0 % (MgO)	Description White powder	Chloride <=50 ppm
Phosphate <=10 ppm	HCl-insoluble matter <=200 ppm	Heavy metals (Pb) <=10 ppm
Nitrate <=30 ppm	Sulphate <=200 ppm	Water solubility <=0.5 %
As <=1 ppm	Ba <=30 ppm	Ca <=500 ppm
Fe <=50 ppm		

Code	Size	Packaging
459285	g 250	Plastic jar
459287	g 1000	Plastic jar
459283	kg 25	Drum

## Magnesium carbonate basic - Pharmaceutical Grade

## Magnesium carbonate basic - Pharmaceutical Grade

## RPH-According to pharmacopoeia: Ph.Eur.-FU-Ph.Franc.-BP



Assay (Mg oxide) 40.0 + 45.0 %	Description White powder	Appearance of solution Conform Ph.Eur.
Apparent density 60 + 150 g/l	Chloride <=0.07 %	Heavy metals (Pb) <=20 ppm
Sulphate <=0.3 %	Water-soluble subst. <=1.0 %	Acet.ac.not soluble ma. <=0.05 %
As <=2 ppm	Ca <=0.75 %	Fe <=0.04 %

Code	Size	Packaging
349257	g 1000	Bottle
349251	kg 15	Plastic tank

Light powder

## RPH-According to pharmacopoeia: USP



Assay (Mg oxide) 40.0 + 43.5 %	Description White powder	Apparent density 400 + 500 g/l
Heavy metals (Pb) <=30 ppm	Soluble salts <=1.0 %	Acid not soluble matter <=0.05 %
As <=4 ppm	Ca <=0.45 %	Fe <=0.02 %
Escherichia coli Absent	Origin (BSE/TSE) Synthesis	Residual solvents (CPMP/ICH/283/95) Conform

Code	Size	Packaging
349279	g 5000	Plastic jar
349272	kg 25	Carton drum
349273	kg 25	Sack

Heavy powder

## Magnesium chloride

Magnesio cloruro - Magnesium chlorure - Magnesio cloruro

MgCl<sub>2</sub>·6H<sub>2</sub>O

Atomic weight: 203.31

CAS N: 7791-18-6

EEC N: 232-094-6

## Magnesium chloride - Analytical Grade



## RPE-ACS-ISO-for analysis

Assay (complexometric) 99.0 + 102.0 %	Description White crystals	Water-insoluble matter <=50 ppm
Ammonium <=20 ppm	Phosphate <=5 ppm	Nitrate <=10 ppm
Sulphate <=20 ppm	Heavy metals (Pb) <=5 ppm	Ba <=50 ppm
Ca <=100 ppm	Fe <=5 ppm	K <=50 ppm
Mn <=5 ppm	Na <=50 ppm	Sr <=50 ppm

Code	Size	Packaging
459337	g 1000	Plastic jar
459331	g 5000	Plastic jar
459334	kg 50	Carton drum

## Magnesium chloride - Pharmaceutical Grade

## RPH-According to pharmacopoeia: Ph.Eur.-USP-FU-Ph.Franc.-BP



Assay (complexometric) 98.0 + 101.0 %	Description Colourless hygroscopic crystals	Appearance of solution Conform Ph.Eur.
Acidity or alkalinity Conform Ph.Eur.	Ba Conform USP-NF	K Conform USP-NF
Organic volatile impurities Conform USP-NF	pH solution 5% 4.5 + 7.0	Water (K.F.) 51.0 + 55.0 %
Heavy metals (Pb) <=10 ppm	Bromide <=500 ppm	Sulphate <=50 ppm
Not soluble matter <=50 ppm	Al <=1 ppm	As <=2 ppm
Ca <=100 ppm	Fe <=10 ppm	Origin (BSE/TSE) Synthesis
Residual solvents (CPMP/ICH/283/95) Conform		

Code	Size	Packaging
349357	g 1000	Plastic jar
349359	g 5000	Plastic jar
349355	kg 25	Carton drum
349354	kg 50	Fibre drum

## Magnesium chloride - Technical Grade

## PS-Pure-for synthesis



CaSO <sub>4</sub> <= 0.5 %	KCl <= 0.3 %	MgCl <sub>2</sub> >= 47 %
MgSO <sub>4</sub> <= 0.75 %	NaCl <= 0.7 %	

Code	Size	Packaging
P1740044	kg 25	-

## RE-Pure



Assay (complexometric) 98.5 + 101.5 %	Description White crystalline powder	Acidity (HCl) <= 0.02 %
Free alkalis <= 0.01 % (MgO)	Ammonium <= 50 ppm	Sulphate <= 100 ppm
As <= 2 ppm	Al <= 1 ppm	Ba <= 20 ppm
Ca <= 1000 ppm	Cu <= 10 ppm	Fe <= 5 ppm
K <= 3000 ppm	Na <= 5000 ppm	Pb <= 10 ppm
Zn <= 10 ppm		

Code	Size	Packaging
349377	g 1000	Plastic jar
349374	kg 50	Fibre drum



## Magnesium citrate bibasic pentahydrate

*Magnesio citrato bibasico pentaidrato - Magnésium citrate dibasique pentahydraté - Magnesio citrato dibasico pentahidratado*

**C<sub>8</sub>H<sub>6</sub>O<sub>7</sub>·xMg**  
Atomic weight: 214,430  
CAS N: 7779-25-1  
EEC N: 231-923-9

## Magnesium citrate bibasic pentahydrate - Technical Grade

## RE-Pure



Assay (magnesium) >=8.0 %	Description White granular powder	Appearance of solution Conform
pH sol. 5% in H <sub>2</sub> O 3.5 ± 4.5	Loss on drying <=0.5 %	Chloride <=0.05 %
Sulphate <=0.1 %	As <=3 ppm	Cu <=25 ppm
Pb <=10 ppm	Zn <=25 ppm	

Code	Size	Packaging
349321	kg 20	Fibre drum

## Magnesium dihydrogen phosphate

*Magnesio fosfato monobasico - Magnesium phosphate monobasique - Magnesio fosfato monobásico*

**Mg(H<sub>2</sub>PO<sub>4</sub>)<sub>2</sub>·3H<sub>2</sub>O**  
Atomic weight: 272,33  
CAS N: 13092-66-5  
EEC N: 236-004-6

## Magnesium dihydrogen phosphate - Analytical Grade

## RPE-For analysis



Assay (complexometric) >=97 %	Description White powder	Chloride <=10 ppm
Water-insoluble matter <=100 ppm	Heavy metals (Pb) <=10 ppm	Nitrate <=15 ppm
Sulphate <=40 ppm	As <=1 ppm	Ba <=50 ppm
Ca <=100 ppm	Cu <=5 ppm	Fe <=10 ppm
K <=100 ppm	Na <=100 ppm	Pb <=5 ppm

Code	Size	Packaging
459385	g 250	Plastic jar
459383	kg 25	Fibre drum

## Magnesium DL-aspartate tetrahydrate

*Magnesio DL-aspartato acido tetraidrato - Magnésium DL-aspartate acide tétrahydraté - Magnesio DL-aspartato acido tetrahidratado*

**(HOOCCHNH<sub>2</sub>CH<sub>2</sub>COO)<sub>2</sub>Mg·4H<sub>2</sub>O**  
Atomic weight: 360,57  
CAS N: 7018-07-7

## Magnesium DL-aspartate tetrahydrate - Technical Grade

## RE-Pure



Assay (potentiometric) 98.0 ± 101.0 %	Description White crystalline powder	Appearance of solution Conform
Related compounds Conform	pH 5.5 ± 6.5	Ammonium <=100 ppm
Chloride <=100 ppm	Sulphate <=200 ppm	Heavy metals (Pb) <=10 ppm
As <=2 ppm	Fe <=30 ppm	Loss on drying 19.0 ± 22.0 %

Code	Size	Packaging
349091	kg 25	Fibre drum
349093	kg 50	Fibre drum

## Magnesium glycerophosphate

*Magnesio glicerofosfato - Magnesium glycerophosphate - Magnesio glicerofosfato*

**CaH<sub>2</sub>O<sub>2</sub>PO<sub>4</sub>·Mg**  
Atomic weight: 230,4  
CAS N: 927-20-8  
EEC N: 213-149-3

## Magnesium glycerophosphate - Technical Grade

## RE-Pure



Assay >= 98 %	Description White crystalline powder	Residue on calcination 47 ± 52 %
Glycerol-Alc.sol.impur. <= 2 %	Heavy metals (Pb) <= 10 ppm	As <= 4 ppm

Code	Size	Packaging
349407	g 1000	Plastic jar

## Magnesium hydrogen phosphate

*Magnesio fosfato bibasico - Magnesium phosphate dibasique - Magnesio fosfato dibásico*

**MgHPO<sub>4</sub>·3H<sub>2</sub>O**  
Atomic weight: 174,34  
CAS N: 7782-75-4  
EEC N: 231-823-5

## Magnesium hydrogen phosphate - Analytical Grade

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W  
X  
Y  
Z**Magnesium hydrogen phosphate - Analytical Grade****RPE-For analysis**

Assay (complexometric) <b>97 + 100 %</b>	Description White powder	Chloride <=100 ppm
HCl-insoluble matter <=500 ppm	Sulphate <= 60 ppm	As <=1 ppm
Cu <=50 ppm	Fe <=50 ppm	Ni <= 50 ppm
Pb <=50 ppm		

Code	Size	Packaging
459435	g 250	Plastic jar
459437	g 1000	Plastic jar
459433	kg 25	Fibre drum

**Magnesium hydroxide**

Magnesio idrossido - Magnésium hydroxyde - Magnesio hidróxido

**Mg(OH)<sub>2</sub>**  
Atomic weight: 58,34  
CAS N: 1309-42-8  
EEC N: 215-170-3

**Magnesium hydroxide - Pharmaceutical Grade****RPH-According to pharmacopoeia: Ph.Eur.-USP-FU-Ph.Franc.-BP**

Assay (complexometric) <b>95.0 + 100.5 %</b>	Description White powder	Appearance of solution Conform Ph.Eur.
Loss on ignition 29.0 + 32.5 %	Chloride <= 0.1 %	Heavy metals (Pb) <= 30 ppm
Sulphate <= 0.5 %	Soluble matter <= 2.0 %	Acet.ac.not soluble ma. <= 0.1 %
As <= 4 ppm	Ca <= 1.5 %	Fe <= 0.07 %

Code	Size	Packaging
349455	g 1000	Bottle
349454	kg 50	Drum

**Magnesium nitrate**

Magnesio nitrato - Magnésium nitràte - Magnesio nitrato

**Mg(NO<sub>3</sub>)<sub>2</sub>·6H<sub>2</sub>O**  
Atomic weight: 256,41  
CAS N: 13446-18-9  
EEC N: 233-826-7

Transport classification  
ONU n. 1474  
Transport class: 5.1  
Packaging group: III



R: 11-36  
S: 17-24-26

**Magnesium nitrate - Analytical Grade****RPE-ACS-for analysis-Reag. Ph.Eur.-Reag. USP**

Assay (complexometric) <b>98.0 + 102.0 %</b>	Description White crystals	pH sol. 5% at 25° C 5.0 + 8.2
Water-insoluble matter <=50 ppm	Ammonium <=30 ppm	Chloride <=10 ppm
Phosphate <=5 ppm	Sulphate <=50 ppm	Heavy metals (Pb) <=5 ppm
Ba <=50 ppm	Ca <=100 ppm	Fe <=5 ppm
K <=50 ppm	Mn <=5 ppm	Na <=50 ppm
Sr <=50 ppm		

Code	Size	Packaging
459537	g 1000	Plastic jar

**Magnesium nitrate - Technical Grade****RE-Pure**

Assay (complexometric) <b>&gt;=96 %</b>	Description White crystals	Chloride <=500 ppm
Heavy metals (Pb) <=50 ppm	Sulphate <=0.2 %	Fe <=50 ppm

Code	Size	Packaging
349557	g 1000	Plastic jar
349554	kg 50	Carton drum

**Magnesium nitrate 10 g/L solution**

Magnesio nitrato 10 g/L soluzione - Magnésium nitràte 10g/L - Magnesio nitrato solución 10 g/L

**Mg(NO<sub>3</sub>)<sub>2</sub>·5H<sub>2</sub>O**  
Atomic weight: 256,410  
CAS N: 13446-18-9  
EEC N: 233-826-7

**Magnesium nitrate 10 g/L solution - Special Grade****RS-Matrix modifiers for AAS-GTA**

Code	Size	Packaging	Notes
503196	50 ml	Plastic bottle	Matrice: Water (H <sub>2</sub> O), conc. 10 g/l

**For further information on above products, see following product/application section(s)**  
Trace metal analysis (p. 86)

## Magnesium oxide

Magnesio ossido - Magnésium oxyde - Magnesio óxido

MgO

Atomic weight: 40,311

CAS N: 1309-48-4

EEC N: 215-171-9

### Magnesium oxide - Analytical Grade

#### RPE-For analysis

CARLO ERBA  
Quality since 1848

Assay (complexometric) >= 99 %

Description White powder

Loss on ignition <= 2 %

Chloride <= 0.25 %

Silicate <= 500 ppm

Sulphat + sulphit (SO<sub>4</sub>) <= 0.25 %

Ca <= 0.3 %

Fe <= 400 ppm

Na <= 0.1 %

Code	Size	Packaging
459584	g 100	Plastic jar
459586	g 500	Plastic jar

For further information on above products, see following product/application section(s)

Adsorbants (p. 22)

### Magnesium oxide - Special Grade

#### RS-For chromatography

CARLO ERBA  
Quality since 1848

Description White powder

Code	Size	Packaging
459617	g 1000	Plastic jar

For further information on above products, see following product/application section(s)

Chromatography (p. 34)

## Magnesium oxide heavy

Magnesio ossido pesante - Magnésium oxyde lourd - Magnesio óxido pesado

MgO

Atomic weight: 40,311

CAS N: 1309-48-4

EEC N: 215-171-9

### Magnesium oxide heavy - Pharmaceutical Grade

#### RPH-According to pharmacopoeia: Ph.Eur.-USP-DAB

CARLO ERBA  
Quality since 1848

Assay (complexometric) 98.0 + 100.5 % Calc.

Description White powder

Appearance of solution Conform Ph.Eur.

Apparent density 26 + 36 ml/15g

Loss on ignition <=8.0 %

Chloride <=0.1 %

Heavy metals (Pb) <=20 ppm

Sulphate <=1.0 %

Sol.matter, free alkali <=2.0 %

HCl not soluble matter <=0.1 %

As <=4 ppm

Ca <=1.1 %

Fe <=500 ppm

Code	Size	Packaging
349655	g 1000	Bottle
349653	kg 25	Tank

## Magnesium perchlorate

Magnesio perchlorato - Magnsium perchlorate - Magnesio paraclorato

Mg(ClO<sub>4</sub>)<sub>2</sub>

Atomic weight: 223,23

CAS N: 10034-81-8

EEC N: 233-108-3

Transport classification

ONU n. 1475

Transport class: 5.1

Packaging group: II



R: 9-22

S: 13-22-27

### Magnesium perchlorate - Analytical Grade

#### RPE-For analysis

CARLO ERBA  
Quality since 1848

Description White granules

Water (K.F.) <=15 %

Acidity(Perchloric ac.) <=500 ppm

Alkalinity(Mg oxide) <=200 ppm

Chloride <=100 ppm

Nitrate <=200 ppm

Ca <=15 %

Code	Size	Packaging
422254	g 100	Glass jar
422251	g 250	Glass jar

For further information on above products, see following product/application section(s)

Adsorbants (p. 22)

## Magnesium peroxide

Magnesio perossido - Magnésium péroxyde - Magnesio paraóxido

MgO<sub>2</sub>

Atomic weight: 56,32

CAS N: 14452-57-4

EEC N: 238-438-1

Transport classification

ONU n. 1476

Transport class: 5.1

Packaging group: II



R: 8

S: 7-27

### Magnesium peroxide - Technical Grade

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W  
X  
Y  
Z

### Magnesium peroxide - Technical Grade

#### RE-Pure



Assay (oxidimetric) >=15 %		Description White powder
Code	Size	Packaging
349757	g 1000	Plastic jar
349753	kg 25	Metallic can

### Magnesium phosphate

Magnesio fosfato tribásico - Magnesium phosphate tribasique - Magnesio fosfato tribásico

**Mg<sub>3</sub>(PO<sub>4</sub>)<sub>2</sub>·8H<sub>2</sub>O**  
Atomic weight: 407.00  
CAS N: 13446-23-6

#### Magnesium phosphate - Analytical Grade

##### RPE-For analysis



Assay (complexometric) >= 97.0 %		Description White powder	Chloride <= 100 ppm
Sulphate <= 500 ppm		Ca <= 0.1 %	Cd <= 50 ppm
Co <= 50 ppm		Cu <= 50 ppm	Fe <= 50 ppm
K <= 100 ppm		Na <= 0.2 %	Ni <= 50 ppm
Pb <= 50 ppm		Zn <= 50 ppm	
Code	Size	Packaging	
459485	g 250	Plastic jar	

### Magnesium stearate

Magnesio stearato - Magnésium stéarate - Magnesio estearato

**Mg(C<sub>17</sub>H<sub>35</sub>COO)<sub>2</sub>**  
Atomic weight: 591,270  
CAS N: 557-04-0  
EEC N: 209-150-3

#### Magnesium stearate - Pharmaceutical Grade

##### RPH-Vegetal origin



Assay (magnesium) 4.0 + 5.0 % s.s.		Description White powder	Acidity or alkalinity Conform USP-NF
Organic volatile impurities Conform USP-NF		Apparent density 300 + 400 g/l	Loss on drying <= 6.0 %
Stearic acid >= 40 %		Stearic+Palmitic acid >= 90 %	Chloride <= 0.1 %
Sulphate <= 1.0 %		Pb <= 10 ppm	Total bacteria <= 1000 n/g
Yeast and mold <= 500 n/g		Escherichia coli Absent	Salmonella Absent
Origin (BSE/TSE) Vegetable		Residual solvents (CPMP/ICH/283/95) Conform	
Code	Size	Packaging	
350032	g 2500	Plastic bottle	
350035	kg 25	Fibre drum	

### Magnesium sulphate

Magnesio sulfato - Magnésium sulfate - Magnesio sulfato

**MgSO<sub>4</sub>·7H<sub>2</sub>O**  
Atomic weight: 246.48  
CAS N: 10034-99-8  
EEC N: 231-298-2

#### Magnesium sulphate - Analytical Grade

##### RPE-ACS-for analysis-Reag. Ph.Eur.-Reag. USP



Assay (complexometric) 99.0 + 100.5 % s.s.		Description White crystals	pH sol. 5% at 25° C 5.0 + 8.2
Water-insoluble matter <=50 ppm		Ammonium <=20 ppm	Chloride <=5 ppm
Nitrate <=20 ppm		Heavy metals (Pb) <=5 ppm	Ca <=200 ppm
Fe <=5 ppm		K <=50 ppm	Mn <=5 ppm
Na <=50 ppm		Sr <=50 ppm	Appearance of solution Conform
Acidity or alkalinity Conform		Loss on drying 48.0 + 52.0 %	As <=2 ppm
Code	Size	Packaging	
459667	g 1000	Plastic jar	
459669	g 5000	Plastic jar	
459664	kg 50	Carton drum	

For further information on above products, see following product/application section(s)  
Adsorbants (p. 22)

#### Magnesium sulphate - Pharmaceutical Grade

## Magnesium sulphate - Pharmaceutical Grade

## RPH-According to pharmacopoeia: Ph.Eur.-FU-BP-DAB



<b>Assay (complexometric)</b> 99.0 + 100.5 % s.s.	Description White crystalline powder	Appearance of solution Conform Ph.Eur.
Acidity or alkalinity Conform Ph.Eur.	pH solution 5% 5.0 + 9.2	Loss on drying 48.0 + 52.0 %
Loss on ignition 40.0 + 52.0 %	Chloride ≤140 ppm	Residue solvents Conform USP-NF
Heavy metals (Pb) ≤10 ppm	As ≤2 ppm	Fe ≤20 ppm
Se ≤30 ppm	Origin (BSE/TSE) Synthesis	Residual solvents (CPMP/ICH/283/95) Conform

Code	Size	Packaging
349859	g 5000	Plastic jar
349851	kg 25	Sack
349855	kg 50	Drum

## Magnesium sulphate - Technical Grade

## PS-Pure-for anhydriification



<b>Assay</b> ≥ 98 %	Water content ≤ 2 % m/m	Bulk density 1300 - 1500 G/L
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Code	Size	Packaging
P1460012	g 1000	Glass bottle
P1460027	g 5000	Plastic jar
P1460035	g 10000	Plastic bucket
P1460044	kg 25	Plastic bucket

## PS-Pure-for synthesis



Code	Size	Packaging
P1190017	g 1000	Plastic jar

## Malachite green

Verde malachite - Vert de malachite - Verde de malaquita

## CAS/HS/CINs

Atomic weight: 364,90  
CAS N: 569-64-2  
EEC N: 209-322-8

## Transport classification

ONU n. 3143  
Transport class: 6.1  
Packaging group: IIIR: 22-41-50/53-63  
S: 26-36/37/39-46-60-61

## Malachite green - Special Grade

## RS-For microscopy-C.I. 42000



Description Green shining crystals

Code	Size	Packaging
491304	g 100	Plastic jar

Stain for Cytology.

For further information on above products, see following product/application section(s)

Microscopy (p. 58)

## Maleic acid

Acido maleico - Acide maléique - Acido maleico

## HOOCCH:CHCOOH

Atomic weight: 116,07  
CAS N: 110-16-7  
EEC N: 203-742-5

## Transport classification

ONU n. 3261  
Transport class: 8  
Packaging group: IIIR: 22-36/37/38  
S: 26-28-37

## Maleic acid - Pharmaceutical Grade

## RPH-According to pharmacopoeia: Ph.Eur.-BP



<b>Assay (acidimetric)</b> 99.0 + 101.0 % s s	Description White crystalline powder	Appearance of solution Conform Ph.Eur.
Fumaric acid Conform Ph.Eur.	Melting point 132 + 135 °C	Water (K.F.) ≤2.0 %
Sulphated ash ≤0.1 %	Heavy metals (Pb) ≤10 ppm	Fe ≤5 ppm
Origin (BSE/TSE) Synthesis	Residual solvents (CPMP/ICH/283/95) Conform	

Code	Size	Packaging
407266	g 500	Plastic jar
407263	kg 25	Metal drum

## Maleic anhydride

Anidride maleica - Anhydride maléique - Anhidrido maleico

## OCOCH:CHCO

Atomic weight: 98,059  
CAS N: 108-31-6  
EEC N: 203-571-6

## Transport classification

ONU n. 2215  
Transport class: 8  
Packaging group: IIIR: 22-34-42/43  
S: 22-26-36/37/39-45

## Maleic anhydride - Analytical Grade

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Y  
Z

## Maleic anhydride - Analytical Grade

## RPE-For analysis

Assay (acidimetric) >= 98.5 %  
Acido maleico libero <= 0.5 %

Description White flakes

Melting point 52 + 55 ° C

Code	Size	Packaging
421955	g 250	Plastic jar
421953	kg 25	Fibre drum

## Maleic anhydride - Technical Grade

## RE-Pure

Assay (acidimetric) >= 99 %  
Residue on ignition <= 500 ppm

Description White flakes

Melting point 51.3 + 54.3 ° C

Code	Size	Packaging
318303	kg 25	Carton drum

## DL-Malic acid

*Acido DL-malico - Acide DL-malique - Acido DL-málico*HOOCCH(OH)CH2COOHAtomic weight: 134,09  
CAS N: 617-48-1  
EEC N: 210-514-9

R: 36

## DL-Malic acid - Analytical Grade

## RPE-For analysis

Assay (acidimetric) >= 99.0 %  
Melting point 130 + 132 ° C  
Heavy metals (Pb) <= 20 ppm  
Pb <= 10 ppmDescription White crystalline powder  
Water <= 0.3 %  
Sulphated ash <= 0.05 %Water-insoluble matter <= 0.1 %  
Chloride <= 5 ppm  
As <= 3 ppm

Code	Size	Packaging
407314	g 100	Plastic jar
407316	g 500	Plastic jar

## Malonic acid

*Acido malonico - Acide malonique - Acido malónico*HOOCCH2COOH  
Atomic weight: 104,06  
CAS N: 141-82-2  
EEC N: 205-503-0R: 22-36/38  
S: 22

## Malonic acid - Analytical Grade

## RPE-For analysis

Assay (acidimetric) >= 98.5 %  
Chloride <= 100 ppmDescription White crystalline powder  
Residue on ignition <= 0.5 %Melting point 130 + 135 ° C  
Sulphate <= 0.1 %

Code	Size	Packaging
407363	g 50	Glass jar
407365	g 250	Glass jar

## Maltose monohydrate

*Maltosio monoidrato - Maltose monohydraté - Maltosa monohidrato*C12H22O11·H2O  
Atomic weight: 360,32  
CAS N: 6363-53-7  
EEC N: 200-716-5

## Maltose monohydrate - Analytical Grade

## RPE-For analysis

Assay >= 94.0 %  
Water <= 7.5 %Description Whitish powder  
Melting point ca. 120 °C (dec)Potere rotat. spec. (C=2; H<sub>2</sub>O 24h) 130 ± 3 °

Code	Size	Packaging
459863	g 50	Glass jar
459865	g 250	Plastic jar

*For biochemistry*

## Maltose monohydrate - Technical Grade

## RE-Pure

Assay >= 92 %  
Sulphated ash <= 0.1 %

Description White crystalline powder

Water &lt;= 7 %

Code	Size	Packaging
350401	kg 25	Carton drum

*For biochemistry*

## D(-)Mandelic acid

Acido D(-)mandelico - Acide D(-)mandélique - Acido D(-)mandélico

Cc1c(O)ccc(O)c1  
 Atomic weight: 152,15  
 CAS N: 611-71-2  
 EEC N: 210-276-6

## D(-)Mandelic acid - Analytical Grade

## RPE-For analysis



Description White crystalline powder Melting point 133 + 135 ° C Potere rotator. specif.(C=2 in Acqua) -155.4 + -153.4 °

Code	Size	Packaging
407421	g 25	Glass jar

## DL-Mandelic acid

Acido DL-mandelico - Acide DL-mandélique - Acido DL-mandélico

Cc1c(O)ccc(O)c1  
 Atomic weight: 152,15  
 CAS N: 90-64-2  
 EEC N: 202-007-6

## DL-Mandelic acid - Technical Grade

## RE-Pure



Assay (acidimetric) &gt;= 97.5 % Description White crystalline powder Melting point 118 + 122 °C

Code	Size	Packaging
304757	g 1000	Plastic jar

## L(+)-Mandelic acid

Acido L(+)-mandelico - Acide L(+)-mandélique - Acido L(+)-mandélico

Cc1c(O)ccc(O)c1  
 Atomic weight: 152,15  
 CAS N: 17199-29-0  
 EEC N: 241-240-8

## L(+)-Mandelic acid - Analytical Grade

## RPE-For analysis



Description White crystalline powder Melting point 132 + 134 ° C Specific optical rotation +153.4 + +155.4 °

Code	Size	Packaging
407431	g 25	Glass jar

## Manganese electrolytic

Manganese elettrolitico - Manganèse électrolytique - Manganeso electrolítico

Mn  
 Atomic weight: 54,93  
 CAS N: 7439-96-5  
 EEC N: 231-105-1

## Manganese electrolytic - Analytical Grade

## RPE-For analysis



Assay 99.9 + 100.0 % Description Brown irregular flakes

Code	Size	Packaging
459965	g 250	Glass jar

## Manganese

Manganese - Manganèse - Manganeso

Transport classification  
 ONU n. 3264

Transport class: 8  
 Packaging group: II  
 Packaging group: III



R: 34  
 S: 26-36/37/39-45

## Manganese - Special Grade

## RS-NORMEX-concentrated solution for AAS



Description Clear colourless liquid Titration factor 0.995 + 1.005

Code	Size	Packaging	Notes
459911	Ampoule	Plastic vial	conc. 1.000 ppm

Concentrated volumetric solution to prepare 1 l of solution 1 mg/ml

For further information on above products, see following product/application section(s)

Trace metal analysis (p. 86)

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## Manganese - Special Grade

**RS-Quality control standard solution for AAS (graphite furnace)**

Code	Size	Packaging	Notes
504362	ml 50	Glass bottle	Matrice: Nitric acid 2%, conc. 0,010 mg/l

For further information on above products, see following product/application section(s)  
Trace metal analysis (p. 86)

**RS-Standard solution for AAS**

Description Clear colourless liquid Titration factor 0.998 + 1.002

Code	Size	Packaging	Notes
497545	ml 100	Glass bottle	conc. 1.000 ppm
497541	ml 500	Plastic bottle	conc. 1.000 ppm

Ready-to-use solution: concentration 1 mg/ml

**RS-Standard solution for ICP**

Code	Size	Packaging	Notes
503721	ml 100	Plastic bottle	Matrice: Nitric acid, conc. 1.000 ppm
503725	ml 100	Plastic bottle	Matrice: Nitric acid, conc. 10.000 ppm
503723	ml 500	Plastic bottle	Matrice: Nitric acid, conc. 1.000 ppm
503727	ml 500	Plastic bottle	Matrice: Nitric acid, conc. 10.000 ppm

Provided with real batch certificate. Verified against NIST Standard Reference

For further information on above products, see following product/application section(s)  
Trace metal analysis (p. 86)

**RS-Standard solution for ICP-MS**

Code	Size	Packaging	Notes
505716	ml 50	Plastic bottle	Matrice: Nitric acid, conc. 10 ppm
505717	ml 100	Plastic bottle	Matrice: Nitric acid, conc. 10 ppm
505718	ml 100	Plastic bottle	Matrice: Nitric acid, conc. 100 ppm

For further information on above products, see following product/application section(s)  
Trace metal analysis (p. 86)

## Manganese (II) acetate

Manganese acetato oso - Manganèse acétate - Manganeso acetato oso

$Mn(CH_3COO)_2 \cdot 4H_2O$   
Atomic weight: 245,08  
CAS N: 6156-78-1  
EEC N: 211-334-3

**Manganese (II) acetate - Analytical Grade****RPE-For analysis**

Assay (complexometric) $\geq$ 99 %	Description Pink crystals	pH sol. 5% at 25° C 6.8 + 8.0
Chloride $\leq$ 10 ppm	Water-insoluble matter $\leq$ 50 ppm	Heavy metals (Pb) $\leq$ 5 ppm
Subst. not ppt. $(NH_4)_2S \leq$ 0.2 %	Subst. reducing $KMnO_4 \leq$ 10 ppm (1m)	Sulphate $\leq$ 50 ppm
Ca $\leq$ 100 ppm	Cd $\leq$ 2.5 ppm	Cu $\leq$ 2.5 ppm
Fe $\leq$ 20 ppm	Ni $\leq$ 10 ppm	Pb $\leq$ 5 ppm
Zn $\leq$ 2.5 ppm		

Code	Size	Packaging
460005	g 250	Plastic jar
460007	g 1000	Plastic jar
460001	kg 25	Fibre drum

**Manganese (II) acetate - Technical Grade****RE-Puro for fibers-ERBATECH**

Assay (complexometric) $\geq$ 99 %	Description Cristal. rosa	pH sol. 5% at 25° C 6.8 + 8.0
Chloride $\leq$ 20 ppm	Water-insoluble matter $\leq$ 50 ppm	Heavy metals (Pb) $\leq$ 50 ppm
Subst. not ppt. $(NH_4)_2S \leq$ 0.2 %	Sulphate $\leq$ 50 ppm	As $\leq$ 1 ppm
Ca $\leq$ 100 ppm	Cu $\leq$ 5 ppm	Fe $\leq$ 50 ppm
Ni $\leq$ 10 ppm		

Code	Size	Packaging
350651	kg 50	Fibre drum

## Manganese (II) carbonate

Manganese carbonato oso - Manganèse carbonate - Manganeso carbonato oso

$MnCO_3$   
Atomic weight: 114,95  
CAS N: 598-62-9  
EEC N: 209-942-9

**Manganese (II) carbonate - Analytical Grade**



## Manganese (II) carbonate - Analytical Grade

## RPE-For analysis



Assay (complexometric) 42 + 46 % (Mn)	Description Hazel powder	Alkaline carbonate <=500 ppm
Chloride <=50 ppm	HCl-insoluble matter <=100 ppm	Heavy metals (Pb) <=50 ppm
Subst. not ppt. (NH4)2S <=0.7 %	Sulphate <=50 ppm	Ca <=0.15 %
Cd <=10 ppm	Cu <=10 ppm	Fe <=50 ppm
Ni <=20 ppm	Pb <=10 ppm	Zn <=10 ppm

Code	Size	Packaging
460103	kg 25	Fibre drum

## Manganese (II) chloride

Manganese cloruro oso - Manganèse chlorure - Manganeso cloruro oso

**MnCl<sub>2</sub>·4H<sub>2</sub>O**  
Atomic weight: 197,91  
CAS N: 13446-34-9  
EEC N: 231-869-6



R: 20/21/22  
S: 7-45

## Manganese (II) chloride - Analytical Grade

## RPE-ACS-for analysis



Assay >= 99 %	Description Pink crystalline powder	Substances reducing KMnO <sub>4</sub> (O) <= 0.0005 %
Sulphate <= 50 ppm	Ca <= 10 ppm	Fe <= 5 ppm
Mg <= 50 ppm	Pb <= 5 ppm	Zn <= 10 ppm

Code	Size	Packaging
460156	g 500	Plastic jar

## Manganese (II) chloride - Technical Grade

## RE-Pure



Assay (complexometric) >=98 %	Description Pink crystals	Water-insoluble matter <=500 ppm
Sulphate <=500 ppm	Fe <=50 ppm	

Code	Size	Packaging
351507	g 1000	Plastic jar
351504	kg 50	Carton drum

## RE-Puro for fibers-ERBATECH



Assay (complexometric) >=99 %	Description Cristal. rosa	pH sol. 5% at 25° C 3.5 + 6.0
Water-insoluble matter <=30 ppm	Heavy metals (Pb) <=20 ppm	Subst. not ppt. (NH <sub>4</sub> ) <sub>2</sub> S <=0.2 %
Sulphate <=50 ppm	Ba <=100 ppm	Ca <=100 ppm
Cd <=5 ppm	Cu <=5 ppm	Fe <=50 ppm
K <=200 ppm	Mg <=100 ppm	Na <=200 ppm
Ni <=10 ppm	Pb <=5 ppm	Zn <=5 ppm

Code	Size	Packaging
351551	kg 50	Fibre drum

## Manganese (II) nitrate solution 50% in water

Manganese nitrato oso soluzione 50% in acqua - Manganèse nitrate en solution à 50% dans l'eau - Manganeso nitrato oso solución 50% en agua

**Mn(NO<sub>3</sub>)<sub>2</sub>**  
Atomic weight: 178,95  
CAS N: 10377-66-9  
EEC N: 233-828-8

Transport classification  
ONU n. 3218  
Packaging group: III

## Manganese (II) nitrate solution 50% in water - Analytical Grade

## RPE-For analysis



Assay (complexometric) 48.5 + 51.5 %	Description Liquido limp. legg. rosa	Density at 15° C 1.52 + 1.58
pH sol. 5% at 25° C 1.5 + 2.5		

Code	Size	Packaging
460232	ml 1000	Bottle

## Manganese (II) sulphate monohydrate

Manganese solfato oso monoidrato - Manganèse sulfate monohydraté - Manganeso sulfato oso monohidrato

**MnSO<sub>4</sub>·H<sub>2</sub>O**  
Atomic weight: 169,01  
CAS N: 10034-96-5  
EEC N: 232-089-9

Transport classification  
ONU n. 3077  
Transport class: 9  
Packaging group: III



R: 48/20/22-51/53  
S: 22-61

## Manganese (II) sulphate monohydrate - Analytical Grade

**Manganese (II) sulphate monohydrate - Analytical Grade****RPE-ACS-for analysis**

Assay (complexometric) **98.0 + 101.0 %**  
 Water-insoluble matter  $\leq$  100 ppm  
 Heavy metals (Pb)  $\leq$  20 ppm  
 K  $\leq$  100 ppm  
 Ni  $\leq$  200 ppm

Description Pink powder  
 Subst. reducing KMnO<sub>4</sub> Conform  
 Ca  $\leq$  50 ppm  
 Mg  $\leq$  50 ppm  
 Zn  $\leq$  50 ppm

Loss on ignition 10.0 + 12.0 %  
 Chloride  $\leq$  50 ppm  
 Fe  $\leq$  20 ppm  
 Na  $\leq$  500 ppm

Code	Size	Packaging
460305	g 250	Plastic jar
460307	g 1000	Plastic jar
460301	kg 25	Fibre drum
460304	kg 50	Carton drum

**Manganese (II) sulphate monohydrate - Technical Grade****RE-Pure**

Assay (complexometric)  **$\geq$  98 %**  
 Pb  $\leq$  15 ppm

Description White powder  
 As  $\leq$  5 ppm

Water-insoluble matter  $\leq$  500 ppm

Code	Size	Packaging
352007	g 1000	Plastic jar
352004	kg 50	Sack

**Manganese (IV) oxide**

*Manganese biossido - Manganèse dioxyde - Manganeso dióxido*

**MnO<sub>2</sub>**

Atomic weight: 86,937  
 CAS N: 1313-13-9  
 EEC N: 215-202-6



R: 20-22  
 S: 25

**Manganese (IV) oxide - Analytical Grade****RPE-For analysis**

Assay (oxidimetric)  **$\geq$  90.0 %**

Description Black powder

Loss on drying 120° C  $\leq$  1.5 %

Code	Size	Packaging
460055	g 250	Plastic jar
460052	kg 25	Fibre drum

**Manganese (IV) oxide granular**

*Manganese biossido granulare - Manganèse dioxyde granules - Manganeso dióxido granulado*

**MnO<sub>2</sub>**

Atomic weight: 86,937  
 CAS N: 1313-13-9  
 EEC N: 215-202-6



R: 20-22  
 S: 25

**Manganese (IV) oxide granular - Special Grade****RS-For microanalysis**

Description Brown-black granules

Code	Size	Packaging
460062	g 50	Glass jar

**Manganese (IV) oxide Low content Hg**

*Manganese biossido Basso contenuto di Hg - Manganèse dioxyde basse teneur en mercure - Manganeso dióxido bajo contenido de Hg*

**MnO<sub>2</sub>**

Atomic weight: 86,937  
 CAS N: 1313-13-9  
 EEC N: 215-202-6



R: 20-22  
 S: 25

**Manganese (IV) oxide Low content Hg - Special Grade****RS-For enviromental analysis**

Assay (oxidimetric)  **$\geq$  92 %**  
 Chloride  $\leq$  200 ppm  
 Subst. not ppt. (NH<sub>4</sub>)<sub>2</sub>S  $\leq$  1 %  
 Cd  $\leq$  20 ppm  
 Hg  $\leq$  0.05 PPM  
 Zn  $\leq$  20 ppm

Description Black powder  
 HCl-insoluble matter  $\leq$  300 ppm  
 Sulphate  $\leq$  500 ppm  
 Cu  $\leq$  20 ppm  
 Ni  $\leq$  20 ppm

Loss on drying  $\leq$  0.1 %  
 Nitrate  $\leq$  0.1 %  
 Ca  $\leq$  500 ppm  
 Fe  $\leq$  300 ppm  
 Pb  $\leq$  50 ppm

Code	Size	Packaging
460031	g 100	Plastic jar

**For further information on above products, see following product/application section(s)**  
 Special products for enviromental analysis (p. 81)

## D-Mannitol

*D-Mannitolo - D-Mannitol - D-Manitol*

**CH<sub>2</sub>OH(CHOH)<sub>4</sub>CH<sub>2</sub>OH**  
 Atomic weight: 182,17  
 CAS N: 69-65-8  
 EEC N: 200-711-8

**Synonymes**  
 Mannite

A

B

C

D

E

F

G

H

I

J

K

L

M

N

O

P

Q

R

S

T

U

V

W

X

Y

Z

## D-Mannitol - Analytical Grade



## RPE-For analysis

Assay (oxidimetric) $\geq 98.5\%$	Description White crystal. powder	Melting point 166.0 + 170.0 ° C
Specific optical rotation +23.30 + +24.00 °	Loss on drying $\leq 0.1\%$	Acidity (acetic acid) $\leq 50$ ppm
Chloride $\leq 50$ ppm	Water-insoluble matter $\leq 100$ ppm	Heavy metals (Pb) $\leq 5$ ppm
Residue on ignition $\leq 100$ ppm	Sulphate $\leq 100$ ppm	Red.ing sugars(Glucose) $\leq 0.1\%$
Total sugars(Glucose) $\leq 0.3\%$	As $\leq 1$ ppm	Ca $\leq 40$ ppm
Fe $\leq 10$ ppm		

Code	Size	Packaging
460355	g 250	Plastic jar
460357	g 1000	Plastic jar
460352	g 5000	Plastic jar
460353	kg 25	Carton drum

For biochemistry

## D-Mannitol - Pharmaceutical Grade



## RPH-According to pharmacopoeia: Ph.Eur.-USP-FU-BP

Assay (anhydrous) (HPLC) 98.0 + 101.5 %	Description White crystalline powder	Appearance of solution Conform Ph.Eur.
Acidity Conform USP-NF	Melting point 165 + 169 °C	Water (K.F.) $\leq 0.5\%$
Loss on drying $\leq 0.3\%$	Chloride $\leq 70$ ppm	Sulphate $\leq 100$ ppm
As $\leq 1$ ppm	Ni $\leq 1$ ppm	Pb $\leq 0.5$ ppm
Specific optical rotation at 25°C (on dr +137 + +145 °	Reducing sugar $\leq 0.2\%$	Sostanze analoghe (HPLC) Conform Ph.Eur.
Conductivity $\leq 20$ $\mu$ S.cm-1	Origin (BSE/TSE) Synthesis	Residual solvents (CPMP/ICH/283/95) Conform

Code	Size	Packaging
352051	g 1000	Plastic jar
352051	g 1000	Plastic jar
352052	g 5000	Bottle
352053	kg 25	Fibre drum
352053	kg 25	Fibre drum

## D(+Mannose

*D(+Mannosio - D(+Mannose - D(+Manosa*

**CH<sub>2</sub>OHCH(CHOH)<sub>4</sub>O**  
 Atomic weight: 180,16  
 CAS N: 3458-28-4  
 EEC N: 222-392-4

**Synonymes**  
 Carubinose

## D(+Mannose - Analytical Grade



## RPE-For analysis

Description White crystalline powder	Melting point 130.5 + 133.5 ° C	Specific optical rotation +13.4 + +15.0 °
Loss on drying $\leq 0.5\%$	Chloride $\leq 50$ ppm	Water-insoluble matter $\leq 100$ ppm
Heavy metals (Pb) $\leq 10$ ppm	Residue on ignition $\leq 0.1\%$	Sulphate $\leq 50$ ppm
Fe $\leq 10$ ppm		

Code	Size	Packaging
460452	g 25	Glass jar

For biochemistry

## May and Grunwald's stain

*Blu metilene-eosina - Bleu de méthylène-éosine - Eosina-azul de metileno segun May-Grunwald*

**C<sub>16</sub>H<sub>18</sub>ClN<sub>3</sub>S<sub>3</sub>H<sub>2</sub>O**  
 Atomic weight: 373,900  
 CAS N: 61-73-4  
 EEC N: 200-515-2



R: 20/21/22  
 S: 7-13-22

## May and Grunwald's stain - Special Grade



## RS-For microscopy

Description Dark green powder	Spectrophotometric characteristics Conform
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Code	Size	Packaging
429001	g 100	Plastic jar

Stain for Haematology According to May-Grunwald or Jenner.

**For further information on above products, see following product/application section(s)**  
 Microscopy (p. 58)

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
M  
N  
O  
P  
Q  
R  
S  
T  
U  
V  
W  
X  
Y  
Z

## May Grunwald reagent

May Grünwald reattivo - Réactif de May Grünwald - May Grünwald reactivo

**Transport classification**  
ONU n. 1992  
Transport class: 3  
Secondary risk: 6.1  
Packaging group: II



R: 11-23/24/25-39/23/24/25  
S: 7-16-36/37-45

### May Grunwald reagent - Special Grade

#### RS-For microscopy



Description Blue clear liquid      pH (20% in water) 5.4 + 7.5      E 1% / 1 cm a 522 nm 130 + 180  
E 1% / 1 cm a 552 nm 30 ÷ 40      E 1% / 1 cm a 650 nm 250 ÷ 350      Functionality Conform

Code	Size	Packaging
460582	6 x ml 100	Glass bottle
460583	6 x ml 500	Glass bottle
460585	4 x ml 2500	Glass bottle

Stain for Haematology According to Pappenheim.

## Mayer's reagent

Mayer reattivo soluzione in acqua - Réactif de Mayer - Mayer reactivo solución en agua

**Transport classification**  
ONU n. 2024  
Transport class: 6.1  
Packaging group: II



R: 25-48/21/22  
S: 36/37/39-45

### Mayer's reagent - Special Grade

#### RS-For alkaloids detection



Description Yellow clear liquid

Code	Size	Packaging
460502	ml 500	Glass bottle

## L-Menthol

L-Mentolo - L-Menthol - L-Mental

**C<sub>10</sub>H<sub>18</sub>O**  
Atomic weight: 156,26  
CAS N: 2216-51-5  
EEC N: 218-690-9

### L-Menthol - Pharmaceutical Grade

#### RPH-According to pharmacopoeia: USP-Ph.Franc.



Assay (GLC) >=97 %      Description Colourless crystals      Residue solvents Conform USP-NF  
Melting point 41 + 44 ° C      Specific optical rotation -51 + -45 °      Residue on evaporation <=500 ppm

Code	Size	Packaging
352103	g 50	Bottle
352106	g 500	Bottle

## 2-Mercaptoethanol

2-Mercaptoetanolo - 2-Mercaptoéthanol - 2-Mercaptoetanol

**HSCH<sub>2</sub>CH<sub>2</sub>OH**  
Atomic weight: 78,13  
CAS N: 60-24-2  
EEC N: 200-464-6

**Transport classification**  
ONU n. 2966  
Transport class: 6.1  
Packaging group: II



R: 20-24/25-36/37/38  
S: 23-45

### 2-Mercaptoethanol - Analytical Grade

#### RPE-For analysis



Assay (GLC) >= 98.5 %      Description Clear colourless liquid      Refractive index at 20° C 1.4990 + 1.5020  
Water <= 0.5 %

Code	Size	Packaging
460691	ml 10	Glass bottle

For further information on above products, see following product/application section(s)  
Chromatography (p. 34)

## Mercury tridistilled

Mercurio tridistillato - Mercure tridistillé - Mercurio tridestilado

**Hg**  
Atomic weight: 200,59  
CAS N: 7439-97-6  
EEC N: 231-106-7

**Transport classification**  
ONU n. 2809  
Transport class: 8  
Packaging group: III



R: 23-33-50/53  
S: 7-45-60-61

### Mercury tridistilled - Special Grade

## Mercury tridistilled - Special Grade



## RS-For polarography

Assay  $\geq 99.9\%$ Sb  $\leq 1$  ppmCd  $\leq 0.1$  ppmCu  $\leq 0.1$  ppmMn  $\leq 0.1$  ppmNa  $\leq 5$  ppmSulphated ash  $\leq 5$  ppm

Description Silver liquid

Bi  $\leq 0.1$  ppmCr  $\leq 0.1$  ppmFe  $\leq 0.5$  ppmNi  $\leq 0.1$  ppmZn  $\leq 0.5$  ppmHNO<sub>3</sub>-insoluble matter  $\leq 20$  ppmCa  $\leq 5$  ppmCo  $\leq 0.1$  ppmPb  $\leq 0.1$  ppmAg  $\leq 0.5$  ppmResidue after reduction  $\leq 20$  ppm

Code	Size	Packaging
460763	g 100	Plastic bottle

## Mercury

Mercurio - Mercure - Mercurio

## Transport classification

ONU n. 3264

ONU n. 3289

Transport class: 8

Packaging group: II

Packaging group: III



R: 34

S: 26-36/37/39-45

## Mercury - Special Grade



## RS-NORMEX-concentrated solution for AAS

Description Clear colourless liquid

Titration factor 0.995 + 1.005

Code	Size	Packaging	Notes
460741	Ampoule	Plastic vial	conc. 1.000 ppm

Concentrated volumetric solution to prepare 1 l of solution 1 mg/ml

For further information on above products, see following product/application section(s)

Trace metal analysis (p. 86)

## RS-Standard solution for AAS



Description Clear colourless liquid

Titration factor 0.998 + 1.002

Code	Size	Packaging	Notes
497555	ml 100	Plastic bottle	conc. 1.000 ppm, Matrice: Hydrochloric acid
497551	ml 500	Plastic bottle	conc. 1.000 ppm, Matrice: Hydrochloric acid

Ready-to-use solution: concentration 1 mg/ml

For further information on above products, see following product/application section(s)

Trace metal analysis (p. 86)

## RS-Standard solution for ICP



Code	Size	Packaging	Notes
503631	ml 100	Plastic bottle	Matrice: Nitric acid, conc. 1.000 ppm
503635	ml 100	Plastic bottle	Matrice: Nitric acid, conc. 10.000 ppm
503633	ml 500	Plastic bottle	Matrice: Nitric acid, conc. 1.000 ppm
503637	ml 500	Plastic bottle	Matrice: Nitric acid, conc. 10.000 ppm

Provided with real batch certificate. Verified against NIST Standard Reference

For further information on above products, see following product/application section(s)

Trace metal analysis (p. 86)

## RS-Standard solution for ICP-MS



Code	Size	Packaging	Notes
505651	ml 50	Plastic bottle	Matrice: Hydrochloric acid, conc. 10 ppm
505652	ml 100	Plastic bottle	Matrice: Hydrochloric acid, conc. 10 ppm
505655	ml 100	Plastic bottle	Matrice: Hydrochloric acid, conc. 100 ppm

For further information on above products, see following product/application section(s)

Trace metal analysis (p. 86)

## Mercury liquid

Mercurio liquido - Mercure liquide - Mercurio liquido

Hg

Atomic weight: 200,59

CAS N: 7439-97-6

EEC N: 231-106-7

## Transport classification

ONU n. 2809

Transport class: 8

Packaging group: III



R: 23-33-50/53

S: 7-45-60-61

## Mercury liquid - Analytical Grade



## RPE-ACS-for analysis

Description Silver liquid

Residue on evaporation  $\leq 5$  ppm

Code	Size	Packaging
460734	g 100	Glass bottle
460737	g 1000	Glass bottle

## Mercury liquid - Technical Grade

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
M  
N  
O  
P  
Q  
R  
S  
T  
U  
V  
W  
X  
Y  
Z

## Mercury liquid - Technical Grade

## RE-Pure

Assay  $\geq$  99.9 % Description Silver liquid

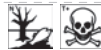
Code	Size	Packaging
352257	g 1000	Glass bottle

## Mercury (I) acetate

Mercurio acetato oso - Mercure (-eux) acétate - Mercurio acetato oso

CH<sub>3</sub>COOHgAtomic weight: 259,65  
CAS N: 631-60-7  
EEC N: 211-161-3

## Transport classification

ONU n. 1629  
Transport class: 6.1  
Packaging group: IIR: 26/27/28-33-50/53  
S: 13-28-36-45-60-61

## Mercury (I) acetate - Technical Grade

## RE-Pure

Assay (oxidimetric)  $\geq$  98 % Description White crystalline powder Other heavy metals  $\leq$  50 ppm  
Chloride  $\leq$  50 ppm Residue on ignition  $\leq$  500 ppm Mercurous salts  $\leq$  0.5 %  
Sulphate  $\leq$  0.2 % Fe  $\leq$  10 ppm

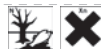
Code	Size	Packaging
460781	g 250	Glass jar

## Mercury (I) chloride

di-Mercurio dicloruro - di-Mercure dichlorure - di-Mercurio dicloruro

Hg<sub>2</sub>Cl<sub>2</sub>Atomic weight: 472,08  
CAS N: 10112-91-1  
EEC N: 233-307-5

## Transport classification

ONU n. 3077  
Transport class: 9  
Packaging group: IIIR: 22-36/37/38-50/53  
S: 13-24/25-46-60-61

## Mercury (I) chloride - Technical Grade

## RE-Pure

Assay  $\geq$  99.5 % Description White crystalline powder Residue on ignition  $\leq$  0.02 %  
Fe  $\leq$  20 ppm

Code	Size	Packaging
352654	g 100	Glass jar
352657	g 1000	Plastic jar

## Mercury (I) nitrate

Mercurio nitrato oso - Mercure (-eux) nitrate - Mercurio nittrato oso

HgNO<sub>3</sub>·H<sub>2</sub>OAtomic weight: 280,61  
CAS N: 7782-86-7  
EEC N: 233-886-4

## Transport classification

ONU n. 1627  
Transport class: 6.1  
Packaging group: IIR: 26/27/28-33-50/53  
S: 13-28-45-60-61

## Mercury (I) nitrate - Analytical Grade

## RPE-For analysis

Assay (oxidimetric)  $\geq$  98.0 % Description White crystals Chloride  $\leq$  50 ppm  
Residue on ignition  $\leq$  100 ppm Mercurous salts  $\leq$  0.5 % Sulphate  $\leq$  50 ppm  
Fe  $\leq$  10 ppm

Code	Size	Packaging
461154	g 100	Jar
461155	g 250	Glass jar

**For further information on above products, see following product/application section(s)**  
Chromatography (p. 34)

## Mercury (I) sulphate

Mercurio solfato oso - Mercure (-eux) sulfate - Mercurio sulfato oso

Hg<sub>2</sub>SO<sub>4</sub>Atomic weight: 497,24  
CAS N: 7783-36-0  
EEC N: 231-993-0

## Transport classification

ONU n. 2025  
Transport class: 6.1  
Packaging group: IIR: 26/27/28-33-50/53  
S: 13-28-45-60-61

## Mercury (I) sulphate - Analytical Grade

## RPE-For analysis

Assay (oxidimetric)  $\geq$  98 % Description Yellowish powder Other heavy metals  $\leq$  20 ppm  
Total nitrogen  $\leq$  50 ppm Chloride  $\leq$  50 ppm Dil. HNO<sub>3</sub>-insol. matter  $\leq$  100 ppm  
Residue on ignition  $\leq$  500 ppm Mercurous salts  $\leq$  0.2 % Cd  $\leq$  5 ppm  
Cu  $\leq$  5 ppm Fe  $\leq$  20 ppm Pb  $\leq$  5 ppm  
Zn  $\leq$  5 ppm

Code	Size	Packaging
461355	g 250	Glass jar

**Mercury (II) Acetate***Mercurio acetato ico - Mercure (-ique) acétate - Mercurio acetato ico***Hg(CH<sub>3</sub>COO)<sub>2</sub>**Atomic weight: 318,76  
CAS N: 1600-27-7  
EEC N: 216-491-1**Transport classification**ONU n. 1629  
Transport class: 6.1  
Packaging group: IIR: 26/27/28-33-50/53  
S: 13-28-36-45-60-61A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
M  
N  
O  
P  
Q  
R  
S  
T  
U  
V  
W  
X  
Y  
Z**Mercury (II) Acetate - Analytical Grade****RPE-ACS-for analysis-Reag. Ph.Eur.-Reag. USP**

Assay(mercurymetric) &gt;=98.0 %

Description White crystalline powder

Water-insoluble matter &lt;=100 ppm

Residue after reduction &lt;=200 ppm

Other heavy metals &lt;=20 ppm

Mercurous compounds &lt;=0.4 %

Chloride &lt;=50 ppm

Nitrate &lt;=50 ppm

Sulphate &lt;=50 ppm

Fe &lt;=10 ppm

Code	Size	Packaging
460824	g 100	Glass jar
460826	g 500	Glass jar

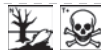
**Mercury (II) amidochloride***Mercurio cloramiduro - Mercure amidochlorure - Mercurio (II)amidocloruro***HgNH<sub>2</sub>Cl**Atomic weight: 252,07  
CAS N: 10124-48-8  
EEC N: 233-335-8**Transport classification**ONU n. 1630  
Transport class: 6.1  
Packaging group: IIR: 26/27/28-33-50/53  
S: 13-28-45-60-61**Mercury (II) amidochloride - Technical Grade****RE-Pure**

Assay &gt;= 97.0 %

Description White powder

Residue on ignition &lt;=0.2 %

Code	Size	Packaging
352603	g 50	Glass jar

**Mercury (II) Bromide***Mercurio bromuro ico - Mercure (-ique) bromure - Mercurio bromuro ico***HgBr<sub>2</sub>**Atomic weight: 360,41  
CAS N: 7789-47-1  
EEC N: 232-169-3**Transport classification**ONU n. 1634  
Transport class: 6.1  
Packaging group: IIR: 26/27/28-33-50/53  
S: 13-28-45-60-61**Mercury (II) Bromide - Analytical Grade****RPE-ACS-for analysis**

Description Yellow crystal powder

Methyl alcohol insolub &lt;=500 ppm

Residue on ignition &lt;=200 ppm

Chloride &lt;=0.25 %

Code	Size	Packaging
460863	g 50	Glass jar

**Mercury (II) chloranilate***Mercurio cloroanilato - Mercure chloranilate - Mercurio cloranilato***CaCl<sub>2</sub>O<sub>2</sub>Hg<sub>2</sub>nH<sub>2</sub>O**Atomic weight: 407,56 (ANHYDR.)  
CAS N: 33770-60-4  
EEC N: 233-335-8**Transport classification**ONU n. 2026  
Transport class: 6.1  
Packaging group: IIR: 26/27/28-33-50/53  
S: 13-28-36-45-60-61**Mercury (II) chloranilate - Analytical Grade****RPE-For analysis**

Description Pv verde grigiast scura

Loss on drying &lt;=15 %

Residue on ignition &lt;=0.5 %

Chlorides sensitivity &lt;=2 µg/ml

Code	Size	Packaging
460921	g 10	Glass jar

For the colorimetric analysis of chlorides

**Mercury (II) chloride***Mercurio dicloruro - Mercure(-ique) chlorure - Mercurio dicloruro***HgCl<sub>2</sub>**Atomic weight: 271,50  
CAS N: 7487-94-7  
EEC N: 231-299-8**Transport classification**ONU n. 1624  
Transport class: 6.1  
Packaging group: IIR: 28-34-48/24/25-50/53  
S: 36/37/39-45-60-61**Mercury (II) chloride - Analytical Grade**

**Mercury (II) chloride - Analytical Grade****RPE-ACS-ISO-for analysis-Reag. Ph.Eur.-Reag. USP**

Assay (complexometric) 99.5 + 100.5 % s.s.	Description White crystalline powder	Solution in ethyl ether Conform
Residue after reduction <=200 ppm	Fe <=20 ppm	Appearance of solution Conform
Acidity or alkalinity Conform	Mercurous chloride Conform	Loss on drying <=1.0 %

Code	Size	Packaging
461003	g 50	Glass jar
461005	g 250	Glass jar
461007	g 1000	Plastic jar

For further information on above products, see following product/application section(s)  
Microscopy (p. 58)

**Mercury (II) chloride - Pharmaceutical Grade****RPH-According to pharmacopoeia: Ph.Eur.-Ph.Franc.-DAB**

Assay (complexometric) 99.5 + 100.5 % s.s.	Description Polvere crist. bianca o quasi	Appearance of solution Conform Ph.Eur.
Acidity or alkalinity Conform Ph.Eur.	Loss on drying <=1.0 %	Mercurous chloride Conform Ph.Eur.

Code	Size	Packaging
352704	g 100	Glass jar
352704	g 100	Glass bottle
352707	g 1000	Plastic bottle

**Mercury (II) chloride solution 5% in water**

Mercurio dicloruro soluzione 5% in acqua - Mercure(-ique) chlorure en solution à 5% dans l'eau - Mercurio dicloruro solución 5% en agua

HgCl<sub>2</sub>  
CAS N: 7487-94-7  
EEC N: 231-299-8

Transport classification  
ONU n. 2024  
Transport class: 6.1  
Packaging group: II



R: 25-36/37/38-48/21/22  
S: 36/37/39-45

**Mercury (II) chloride solution 5% in water - Analytical Grade****RPE-For analysis**

Description Clear colourless liquid	Density at 20° C >=1.04
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Code	Size	Packaging
461021	ml 1000	Glass bottle

**Mercury (II) iodide**

Mercurio ioduro ico - Mercure (-ique) iodure - Mercurio yoduro ico

HgI<sub>2</sub>  
Atomic weight: 454.45  
CAS N: 7774-29-0  
EEC N: 231-873-8

Transport classification  
ONU n. 1638  
Transport class: 6.1  
Packaging group: II



R: 26/27/28-33-50/53  
S: 13-28-45-60-61

**Mercury (II) iodide - Analytical Grade****RPE-ACS-for analysis-Reag. Ph.Eur.-Reag. USP**

Assay (oxidimetric) >=99.0 % s.s.	Description Red - brick powder	Solub. in KI solution Conform
Soluble mercury salts <=500 ppm	Mercurous compounds <=0.1 %	

Code	Size	Packaging
461105	g 250	Glass jar

**Mercury (II) nitrate**

Mercurio nitrato ico - Mercure (-ique) nitrate - Mercurio nitrato ico

Hg(NO<sub>3</sub>)<sub>2</sub>.H<sub>2</sub>O  
Atomic weight: 342.61  
CAS N: 7783-34-8  
EEC N: 233-886-4

Transport classification  
ONU n. 1625  
Transport class: 6.1  
Packaging group: II



R: 26/27/28-33-50/53  
S: 13-28-45-60-61

**Mercury (II) nitrate - Analytical Grade****RPE-ACS-for analysis-Reag. Ph.Eur.-Reag. USP**

Assay(mercurymetric) >=98.0 %	Description White crystals	Residue on ignition <=100 ppm
Chloride <=20 ppm	Sulphate <=20 ppm	Fe <=10 ppm

Code	Size	Packaging
461205	g 250	Glass jar

**Mercury (II) oxide red**

Mercurio ossido rosso - Mercure oxyde rouge - Mercurio óxido rojo

HgO  
Atomic weight: 216.59  
CAS N: 21908-53-2  
EEC N: 244-654-7

Transport classification  
ONU n. 1641  
Transport class: 6.1  
Packaging group: II



R: 26/27/28-33-50/53  
S: 13-28-45-60-61

**Mercury (II) oxide red - Analytical Grade**



**Mercury (II) oxide red - Analytical Grade****RPE-ACS-for analysis**

Assay (complexometric) $\geq 99.0\%$	Description Red powder	Diluted HCl-ins. matter $\leq 0.03\%$
Chloride $\leq 250$ ppm	Sulphate $\leq 150$ ppm	Nitrogen compounds (N) $\leq 50$ ppm
Residue after reduction $\leq 0.025\%$	Fe $\leq 50$ ppm	

Code	Size	Packaging
461325	g 250	Glass jar

**Mercury (II) oxide yellow***Mercurio ossido giallo - Mercure oxyde jaune - Mercurio óxido amarillo***HgO**

Atomic weight: 216,59  
CAS N: 21908-53-2  
EEC N: 244-654-7

**Transport classification**

ONU n. 1641  
Transport class: 6.1  
Packaging group: II



R: 26/27/28-33-50/53  
S: 13-28-45-60-61

**Mercury (II) oxide yellow - Analytical Grade****RPE-ACS-for analysis-Reag. Ph.Eur.-Reag. USP**

Assay (complexometric) $\geq 99.0\%$	Description Yellow orange powder	Total nitrogen $\leq 50$ ppm
Diluted HCl-ins. matter $\leq 300$ ppm	Residue on ignition $\leq 500$ ppm	Chloride $\leq 250$ ppm
Sulphate $\leq 100$ ppm	Fe $\leq 30$ ppm	

Code	Size	Packaging
461303	g 50	Glass jar

**Mercury (II) oxide yellow - Pharmaceutical Grade****RPH-According to pharmacopoeia: FU-Ph.Franc.**

Assay (complexometric) $\geq 99.3\%$ s.s.	Description Yellow-orange powder	Loss on drying $\leq 0.5\%$
Sulphated ash $\leq 0.1\%$	Alkaline salts $\leq 0.1\%$	Appearance of solution Conform FU
Acidity or alkalinity Conform FU	Chloride $\leq 0.05\%$	Sulphate $\leq 0.05\%$

Code	Size	Packaging
352886	g 500	Bottle

**Mercury (II) perchlorate 0.01 mol/l***Mercurio perchlorato 0,01 mol/l - Mercure perchlorate 0.01 mol/l - Mercurio paraclorato 0.01 mol/l*

$HgO / Hg(ClO_4)_2$   
CAS N: 7616-83-3  
EEC N: 231-525-5

**Transport classification**

ONU n. 2024  
Transport class: 6.1  
Packaging group: II



R: 26/27/28-33  
S: 13-28-45

**Mercury (II) perchlorate 0.01 mol/l - Analytical Grade****RPE-NORMEX-for analysis**

Description Clear colourless liquid	Titration factor 0.995 + 1.005
-------------------------------------	--------------------------------

Code	Size	Packaging
461341	Ampoule	Plastic vial

3,9955 g of  $Hg(ClO_4)_2$ . Concentrated volumetric solution to prepare 1 l of solution 0,01 N.

For further information on above products, see following product/application section(s)  
Volumetry (p. 92)

**Mercury (II) sulphate***Mercurio solfato ico - Mercure (-lique) sulfate - Mercurio sulfato ico***HgSO<sub>4</sub> in H<sub>2</sub>SO<sub>4</sub>**

Atomic weight: 296,65  
CAS N: 7783-35-9  
EEC N: 231-992-5

**Transport classification**

ONU n. 1645  
ONU n. 2922  
Transport class: 6.1  
Transport class: 8  
Secondary risk: 6.1  
Packaging group: II



R: 26/27/28-33-50/53  
S: 26-28-36/37/39-45-61

**Mercury (II) sulphate - Analytical Grade****RPE-ACS-for analysis**

Assay (oxidimetric) $\geq 98.0\%$	Description White powder or yellow	Chloride $\leq 30$ ppm
Residue on ignition $\leq 200$ ppm	Mercurous compounds $\leq 0.15\%$	Nitrate Conform
Fe $\leq 50$ ppm		

Code	Size	Packaging
461403	g 50	Glass jar
461405	g 250	Glass jar
461407	kg 25	Drum

**Mercury (II) sulphate - Special Grade**

## Mercury (II) sulphate - Special Grade

## RS-For environmental analysis (COD determination)

Assay  $\geq 98$  %

Code	Size	Packaging	Notes
526701	g 50	Plastic bottle	
526702	g 250	Plastic bottle	
526703	g 1000	Plastic bottle	

## RS-For environmental analysis (COD determination)



Assay (complexometric) $\geq 99$ %	Description White powder or yellow	Other heavy metals $\leq 20$ ppm
Chloride $\leq 20$ ppm	Dil. H <sub>2</sub> SO <sub>4</sub> -ins. matter $\leq 100$ ppm	Nitrate $\leq 50$ ppm
Residue on ignition $\leq 200$ ppm	Mercurous compounds $\leq 300$ ppm	Fe $\leq 10$ ppm
COD $\leq 0.1$		

Code	Size	Packaging	Notes
461423	g 500	Jar	Reagent for the neutralization of chlorides

For further information on above products, see following product/application section(s)  
Special products for environmental analysis (p. 81)

## RS-For environmental analysis (COD determination)



Assay (complexometric) $\geq 99$ %	Description White powder or yellow	Other heavy metals $\leq 20$ ppm
Chloride $\leq 20$ ppm	Dil. H <sub>2</sub> SO <sub>4</sub> -ins. matter $\leq 100$ ppm	Nitrate $\leq 50$ ppm
Residue on ignition $\leq 200$ ppm	Mercurous compounds $\leq 300$ ppm	Fe $\leq 10$ ppm
COD $\leq 0.1$		

Code	Size	Packaging	Notes
461435	ml 1000	Bottle	200 g/l Hg <sub>2</sub> SO <sub>4</sub> in sulphuric acid concentrated

For further information on above products, see following product/application section(s)  
Special products for environmental analysis (p. 81)

## RS-For microanalysis



Description White powder or yellow

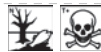
Code	Size	Packaging
461411	g 100	Glass jar

## Mercury (II) thiocyanate

*Mercurio solfocianuro ico - Mercure (-ique) solfocyanure - Mercurio solfocianuro ico*

**Hg(SCN)<sub>2</sub>**  
Atomic weight: 316,75  
CAS N: 592-85-8  
EEC N: 209-773-0

Transport classification  
ONU n. 1646  
Transport class: 6.1  
Packaging group: II



R: 26/27/28-33-50/53  
S: 13-28-45-60-61

## Mercury (II) thiocyanate - Technical Grade

## RE-Pure



Assay (complexometric) $\geq 99$ %	Description White powder	Fe $\leq 20$ ppm
Residue on ignition $\leq 0.05$ %		

Code	Size	Packaging
461451	g 25	Glass jar

## Mesitylene

*Mesitylene - Mésitylène - Mesitileno*

**1,3,5-(CH<sub>3</sub>)<sub>3</sub>C<sub>6</sub>H<sub>3</sub>**  
Atomic weight: 120,20  
CAS N: 108-67-8  
EEC N: 203-604-4

Transport classification  
ONU n. 2325  
Transport class: 3  
Packaging group: III



R: 10-37-51/53  
S: 61

## Mesitylene - Analytical Grade

## RPE-For analysis



Assay (GLC) $\geq 99$ %	Description Clear colourless liquid	Density at 20° C 0.859 $\pm$ 0.869
Refractive index at 20° 1.4973 $\pm$ 1.5023	Water (K.F.) $\leq 100$ ppm	Residue on evaporation $\leq 100$ ppm
Acidity (benzoic acid) $\leq 14$ ppm	Alcalinity (NH <sub>3</sub> ) $\leq 2$ ppm	Total sulphur $\leq 5$ ppm

Code	Size	Packaging
461554	ml 100	Glass bottle

## Metanil yellow

*Giallo metanile - Jaune de méthanyle - Amarillo de metanilo*

**C<sub>16</sub>H<sub>14</sub>Na<sub>2</sub>NaO<sub>2</sub>S**  
Atomic weight: 375,38  
CAS N: 587-98-4  
EEC N: 209-608-2

Transport classification  
ONU n. 3143  
Transport class: 6.1  
Packaging group: III



R: 20/21/22

## Metanil yellow - Analytical Grade

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
M  
N  
O  
P  
Q  
R  
S  
T  
U  
V  
W  
X  
Y  
Z**Metanil yellow - Analytical Grade****RPE-For analysis-C.I. 13065**

Description Polvere giallo-marrone pH range 1.2 - 2.3 Loss on drying <=5 %  
 Colour change Red - yellow

Code	Size	Packaging
453542	g 25	Glass jar

Indicator (pH 1,2+2,3).

**Metaphosphoric acid**

Acido metafosforico - Acide métaphosphorique - Acido metafosfórico

**HPO<sub>3</sub>**

Atomic weight: 79,980  
 CAS N: 37267-86-0  
 EEC N: 253-433-4

**Transport classification**

ONU n. 3260  
 Transport class: 8  
 Packaging group: III



R: 34  
 S: 7-26-45

**Metaphosphoric acid - Analytical Grade****RPE-For analysis**

Assay (acidimetric) 40 ÷ 50 % Description Whitish semitransparent pieces Chloride <=20 ppm  
 Heavy metals (Pb) <=10 ppm Nitrate <=10 ppm Subst. reducing KMnO<sub>4</sub> <=100 ppm (5m)  
 Sulphate <=10 ppm As <=1 ppm Fe <=100 ppm  
 Pb <=10 ppm Stabilizer(NaPO<sub>3</sub>) 50 + 60 %

Code	Size	Packaging
407465	g 250	Plastic jar
407467	g 1000	Plastic jar

Stabilized with 56%±3% of NaPO<sub>3</sub>.

For further information on above products, see following product/application section(s)  
 Adsorbants (p. 22)

**Methanesulphonic acid**

Acido metansolfonico - Acide méthanesulfonique - Acido metansulfónico

**CH<sub>3</sub>SO<sub>3</sub>H**

Atomic weight: 96,10  
 CAS N: 75-75-2  
 EEC N: 200-898-6

**Transport classification**

ONU n. 2586  
 Transport class: 8  
 Packaging group: III



R: 34  
 S: 26-36-45

**Methanesulphonic acid - Technical Grade****RE-Pure**

Assay (acidimetric) >=99 % Description Yellow - brown liquid Density at 20° C 1.47 + 1.48

Code	Size	Packaging
407481	ml 250	Glass bottle
407483	ml 1000	Glass bottle

**Methanol**

Alcole metilico - Méthanol - Alcohol metilico

**CH<sub>3</sub>OH**

Atomic weight: 32,042  
 CAS N: 67-56-1  
 EEC N: 200-659-6

**Transport classification**

ONU n. 1230  
 Transport class: 3  
 Transport class: 3.B.19  
 Secondary risk: 6.1  
 Packaging group: II



R: 11-23/24/25-39/23/24/25  
 S: 7-16-36/37-45

**Methanol - Analytical Grade****PA-PUREX-for analysis**

sds

Assay (GC) >= 99.85 % Refractive index at 20°C 1.327 - 1.331 Water content (K.F.) <= 300 mg/Kg  
 Non volatile residue <= 10 mg/Kg Colour <= 10 Hazen Free acid (as HCOOH) <= 10 mg/Kg  
 Carbonyl compounds (as CH<sub>3</sub>COCH<sub>3</sub>) <= 20 mg/Kg Free alkali (as NH<sub>3</sub>) <= 1 mg/Kg Ethanol <= 100 mg/Kg  
 KMnO<sub>4</sub> reducing subst. (as O) <= 2 mg/Kg

Code	Size	Packaging
P0930522	ml 5000	Plastic drum
P0930541	l 10	Plastic drum
P0930549	l 25	Plastic drum
P0930568	l 200	Metal drum

**RPE-ACS-for analysis-Reag. Ph.Eur.-Reag. USP**

Code	Size	Packaging
524102	ml 5000	Plastic tank

**Methanol - Analytical Grade****RPE-ACS-ISO-for analysis**

<b>Assay (GLC) &gt;=99.9 %</b>	Description Clear liquid	Colour (APHA) <=10
Identification (I.R.) Conform	Water miscib. (15:40) complete	Ready carbonizable substances Conform
Density at 20° C 0.791 ± 0.793	Refractive index at 20° 1.3280 ± 1.3296	Boiling point 64.1 ± 65.1 ° C
Water (K.F.) <=0.05 %	Residue on evaporation <=10 ppm	Acidity (formic acid) <=15 ppm
Alcalinity (NH3) <=1 ppm	Ethyl alcohol <=200 ppm	Chloride <=0.5 ppm
Carbonyl Compounds (CO) <=5 ppm	Heavy metals (Pb) <=0.5 ppm	Subst. reducing KMnO4 <=3 ppm
Al <=0.5 ppm	B <=0.02 ppm	Ba <=0.1 ppm
Ca <=0.5 ppm	Cd <=0.05 ppm	Co <=0.01 ppm
Cr <=0.02 ppm	Cu <=0.01 ppm	Fe <=0.1 ppm
Mg <=0.1 ppm	Mn <=0.01 ppm	Ni <=0.01 ppm
Pb <=0.01 ppm	Sn <=0.1 ppm	Zn <=0.1 ppm
Nessler test Conform		

Code	Size	Packaging
414814	ml 1000	Glass bottle
414816	ml 2500	Glass bottle
414813	l 25	Polythene-metal drum
414817	l 200	Metal drum

**For further information on above products, see following product/application section(s)**  
Microscopy (p. 58)

**RPE-For analysis**

<b>Assay (GLC) &gt;=99.9 %</b>	Description Clear liquid	Colour (APHA) <=10
Water miscib. (15:40) complete	Ready carbonizable substances Conform	Density at 20° C 0.791 ± 0.793
Refractive index at 20° 1.3280 ± 1.3297	Boiling point 64.1 ± 65.1 ° C	Water (K.F.) <=0.01 %
Residue on evaporation <=10 ppm	Acidity (formic acid) <=15 ppm	Alcalinity (NH3) <=1 ppm
Ethyl alcohol <=200 ppm	Carbonyl Compounds (CO) <=5 ppm	Heavy metals (Pb) <=0.5 ppm
Subst. reducing KMnO4 <=3 ppm	Cu <=0.01 ppm	Ni <=0.01 ppm
Nessler test Conform		

Code	Size	Packaging
414854	ml 1000	Glass bottle
414855	ml 2500	Glass bottle

Low content of water.

**Methanol - Special Grade****RS-Anhydrous-for analysis**

<b>Assay (GC) &gt;= 99.85 %</b>	Refractive index at 20°C 1.327 - 1.331	Water content (K.F.) <= 200 mg/Kg
Non volatile residue <= 10 mg/Kg	Free acid (as HCOOH) <= 10 mg/Kg	Free alkali (as NH3) <= 1 mg/Kg
Colour <= 10 Hazen	Carbonyl compounds (as CH3COCH3) <= 20 mg/Kg	Ethanol <= 100 mg/Kg
KMnO4 reducing subst. (as O) <= 2 mg/Kg		

Code	Size	Packaging
P0931016	ml 1000	Glass bottle
P0931021	ml 2500	Glass bottle

**For further information on above products, see following product/application section(s)**  
Anhydrous solvents (p. 27)

**RS-ATRASOL-For analysis of volatile traces**

<b>Assay (GC) &gt;= 99.9 %</b>	Refractive index at 20°C 1.327 - 1.331	Water content (K.F.) <= 500 mg/Kg
Colour <= 10 Hazen	Non volatile residue <= 10 mg/Kg	Free alkali (as NH3) <= 1 mg/Kg
Free acid (as HCOOH) <= 10 mg/Kg	GC ( FID ) - NC Atrasol Conform	GC-ECD.Individual peak (Lindane) <= 2 ng/l
<b>Retention time trichlorobenzene to mirex -</b>	GC-FID.Individ. peak (hexadecane) <= 5 µg/l	<b>Retention time range over toluène -</b>
GC-ECD.Individual peak (CCl4) <= 1 µg/l	<b>Ret.time dichloromethane- trichlorobenz. -</b>	

Code	Size	Packaging
P0933216	ml 1000	Glass bottle
P0933221	ml 2500	Glass bottle

**For further information on above products, see following product/application section(s)**  
Special products for environmental analysis (p. 81)

**RS-For HPLC-GOLD-Ultrgradient Grade**

<b>Assay (GLC) &gt;= 99.9 %</b>	Description Clear liquid	Colour (APHA) <= 10
Density at 20°C 0.7910 ± 0.7930	Refractive index at 20°C 1.3270 ± 1.3300	Distillation range 64.1 ± 65.1 ° C
Water (K.F.) <= 0.02 %	Residue on evaporation <= 5 ppm	Carbonyl compounds (CH3COCH3) <= 20 ppm
Substances reducing KMnO4 (O) <= 2 ppm	Acidity <= 0.0003 meq/g	Alcalinity <= 0.00006 meq/g
Ethanol <= 50 ppm	<b>Fluorescence -</b>	at 254 nm <= 1 ppb
at 365 nm <= 1 ppb	<b>Trasmittance -</b>	at 210 nm >= 30 %
at 220 nm >= 55 %	at 225 nm >= 65 %	at 235 nm >= 85 %
at 240 nm >= 90 %	at 250 nm >= 95 %	at 260 nm >= 98 %
<b>Functionality for HPLC -</b>	at 235 nm <= 2 mA.U.	at 254 nm <= 1 mA.U.
HPLC Gradient Passed test		

Code	Size	Packaging
412721	ml 1000	Glass bottle
412722	ml 2500	Glass bottle
412724	ml 4000	Glass bottle

**For further information on above products, see following product/application section(s)**  
Chromatography (p. 34)

## Methanol - Special Grade

## RS-For HPLC-Gradient Grade

sds

Assay (GC) >= 99.85 %	Refractive index at 20°C 1.327 - 1.331	Water content (K.F.) <= 300 mg/Kg
Colour <= 10 Hazen	HPLC gradient test Conform	UV transmittance at 210 nm >= 30 %
UV transmittance at 220 nm >= 50 %	UV transmittance at 235 nm >= 80 %	UV transmittance at 260 nm >= 98 %
Non volatile residue <= 5 mg/Kg	Free alkali (as NH <sub>3</sub> ) <= 1 mg/Kg	Carbonyl compounds (as CH <sub>3</sub> COCH <sub>3</sub> ) <= 20 mg/Kg
HPLC gradient (peak) at 235 nm <= 2 mAU	Free acid (as HCOOH) <= 10 mg/Kg	HPLC gradient (peak) at 254 nm <= 1 mAU
Ethanol <= 200 mg/Kg		

Code	Size	Packaging
P09337G16	ml 1000	Glass bottle
P09337G21	ml 2500	Glass bottle

For further information on above products, see following product/application section(s)

Chromatography (p. 34)

## RS-For HPLC-Isocratic Grade

sds

Assay (GC) >= 99.8 %	Refractive index at 20°C 1.327 - 1.331	Water content (K.F.) <= 500 mg/Kg
Colour <= 10 Hazen	Free alkali (as NH <sub>3</sub> ) <= 1 mg/Kg	Free acid (as HCOOH) <= 10 mg/Kg
Carbonyl compounds (as CH <sub>3</sub> COCH <sub>3</sub> ) <= 20 mg/Kg	Non volatile residue <= 10 mg/Kg	UV transmittance at 210 nm >= 20 %
UV transmittance at 225 nm >= 50 %	UV transmittance at 240 nm >= 80 %	UV transmittance at 265 nm >= 98 %
Ethanol <= 200 mg/Kg	Fluorescence (quinine) at 254 nm <= 1 ppb	Fluorescence (quinine) at 365 nm <= 1 ppb

Code	Size	Packaging
P0933716	ml 1000	Glass bottle
P0933721	ml 2500	Glass bottle
P0933747	ml 2500	Glass bottle PVC coated

For further information on above products, see following product/application section(s)

Chromatography (p. 34)

## RS-For HPLC-Isocratic Grade

CARLO ERBA  
Quality since 1849

Assay (GLC) >= 99.9 %	Description Clear colourless liquid	Density at 20° C 0.7917 ± 0.7921
Refractive index at 20° 1.3278 ± 1.3298	Boiling point 64.1 ± 65.1	Residue on evaporation <= 5 ppm
Water (K.F.) <= 0.05 %	Acidity <= 0.0005 meq/g	Alcalinity <= 0.0002 meq/g
U.V. Transmittance - at 260 nm >= 98 %	at 210 nm >= 20 % Filtered at 0.2 µm -	at 235 nm >= 80 %

Code	Size	Packaging
412533	ml 1000	Glass bottle
412532	ml 2500	Glass bottle

For further information on above products, see following product/application section(s)

Chromatography (p. 34)

## RS-For HPLC-LC/MS

CARLO ERBA  
Quality since 1849

Code	Size	Packaging
414831	ml 1000	Glass bottle
414832	ml 2500	Glass bottle

For further information on above products, see following product/application section(s)

Chromatography (p. 34)

## RS-For HPLC-PLUS-Gradient Grade

CARLO ERBA  
Quality since 1849

Assay (GLC) >=99.9 %	Description Clear colourless liquid	Density at 20° C 0.7917 ± 0.7921
Refractive index at 20° 1.3278 ± 1.3298	Boiling point 64.1 ± 65.1 ° C	Water (K.F.) <=0.02 %
Residue on evaporation <=5 ppm	Acidity <=0.0005 meq/g	Alcalinity <=0.0002 meq/g
Fluorescence -	at 254 nm <=1 ppb	at 365 nm <=1 ppb
U.V. Transmittance -	at 210 nm >=30 %	at 220 nm >=50 %
at 235 nm >=80 %	at 260 nm >=98 %	

Code	Size	Packaging
412381	ml 1000	Glass bottle
412383	ml 2500	Glass bottle

For further information on above products, see following product/application section(s)

Chromatography (p. 34)

## RS-For optical spectroscopy

CARLO ERBA  
Quality since 1849

Assay (GLC) >=99.9 %	Description Clear liquid	Colour (APHA) <=10
Density at 20° C 0.7917 ± 0.7921	Refractive index at 20° 1.3280 ± 1.3296	Boiling point 64.1 ± 65.1 ° C
Water (K.F.) <=300 ppm	Residue on evaporation <=5 ppm	Acidity <=0.0005 meq/g
Alcalinity <=0.0002 meq/g	Fluorescence -	at 254 nm <=2 ppb
at 365 nm <=2 ppb	U.V. Transmittance -	at 205 nm >=10 %
at 220 nm >=50 %	at 230 nm >=75 %	at 240 nm >=90 %
at 260 nm >=98 %	Nessler test Conform	

Code	Size	Packaging
414902	ml 1000	Glass bottle

Spectrophotometric analysis (1 cm - ref. Water)

For further information on above products, see following product/application section(s)

Solvents for spectroscopy (p. 68)

## Methanol - Special Grade

## RS-For residual pesticides analysis



Assay (GLC) >=99.9 %	Description Clear colourless liquid	Density at 20° C 0.7917 ± 0.7921
Water (K.F.) <=0.05 %	Residue on evaporation <=5 ppm	GC-ECD (Lindano) <=5 ng/l
GC_NPD (Parathion) <=10 ng/l		

Code	Size	Packaging
414921	ml 1000	Glass bottle
414922	ml 2500	Glass bottle

GC-ECD: &lt; 5 ng/l GC-NPD: &lt; 10 ng/l.

For further information on above products, see following product/application section(s)

Special products for environmental analysis (p. 81)

## RS-For titration according to Karl Fischer



Assay (GLC) >=99.9 %	Description Clear colourless liquid	Density at 20° C 0.791 ± 0.793
Water (K.F.) <=0.03 %		

Code	Size	Packaging
414881	ml 1000	Glass bottle
414883	ml 2500	Glass bottle

## RS-MOS For electronic use-ERBATRON



Assay (GLC) >=99.9 %	Description Clear liquid	Colour (APHA) <=10
Water miscibility Conform	Ready carbonizable substances Conform	Resistivity >=0.5 Mohm.cm
Density at 20° C 0.791 ± 0.793	Boiling point 64.1 ± 65.1 ° C	Water (K.F.) <=0.05 %
Residue on evaporation <=10 ppm	Acidity (formic acid) <=15 ppm	Alcalinity (NH3) <=1 ppm
Ethyl alcohol <=200 ppm	Chloride <=0.2 ppm	Carbonyl Compounds (CO) <=5 ppm
Phosphate <=0.5 ppm	Heavy metals (Pb) <=0.2 ppm	Subst. reducing KMnO4 <=2.5 ppm
Total sulphur <=1 ppm	Ag <=0.2 ppm	Al <=0.05 ppm
As <=0.01 ppm	Au <=0.05 ppm	B <=0.01 ppm
Ba <=0.1 ppm	Be <=0.02 ppm	Bi <=0.02 ppm
Ca <=0.5 ppm	Cd <=0.005 ppm	Co <=0.01 ppm
Cr <=0.01 ppm	Cu <=0.01 ppm	Fe <=0.1 ppm
Ga <=0.02 ppm	In <=0.02 ppm	K <=0.1 ppm
Li <=0.02 ppm	Mg <=0.1 ppm	Mn <=0.01 ppm
Mo <=0.05 ppm	Na <=0.5 ppm	Ni <=0.01 ppm
Pb <=0.01 ppm	Pt <=0.05 ppm	Sb <=0.01 ppm
Sn <=0.02 ppm	Sr <=0.02 ppm	Ti <=0.05 ppm
Tl <=0.05 ppm	V <=0.05 ppm	Zn <=0.01 ppm
Zr <=0.05 ppm		

Code	Size	Packaging
414821	ml 2500	Glass bottle

Minimum order: 100 bottles

## RS-PESTIPUR-for pesticide analysis



Assay (GC) >= 99.9 %	Refractive index at 20°C 1.327 - 1.331	Water content (K.F.) <= 500 mg/Kg
Colour <= 10 Hazen	Non volatile residue <= 5 mg/Kg	Free alkali (as NH3) <= 1 mg/Kg
Free acid (as HCOOH) <= 10 mg/Kg	GC-ECD.Individual peak (Lindane) <= 3 ng/l	Retention time trichlorobenzene to mirex -
GC-NPD.Individual peak (Ethylparathion) <= 3 ng/l	Retention time Atrazin to Coumaphos -	

Code	Size	Packaging
P0932216	ml 1000	Glass bottle
P0932221	ml 2500	Glass bottle

## RS-PLUS-for residual pesticide analysis



Assay (GLC) >= 99.8 %	Description Clear colourless liquid	Colour <= 10 hazen
Water <= 0.05 %	Free acids (HCOOH) <= 10 ppm	Free alkalies (NH3) <= 1 ppm
Not volatile residue <= 5 ppm	GC-ECD (Lindano) <= 3 ng/l	GC-NPD (Ethylparation) <= 3 ng/l

Code	Size	Packaging
414930	ml 1000	Glass bottle
414932	ml 2500	Glass bottle

For further information on above products, see following product/application section(s)

Special products for environmental analysis (p. 81)

## Methanol - Special Grade

## RS-RSE For electronic use-ERBATRON



Assay (GLC) >=99.9 %	Description Clear liquid	Colour (APHA) <=10
Water miscibility Conform	Ready carbonizable substances Conform	Resistivity >=0.5 Mohm.cm
Density at 20° C 0.791 ± 0.793	Boiling point 64.1 ± 65.1 ° C	Water (K.F.) <=500 ppm
Residue on evaporation <=10 ppm	Acidity (formic acid) <=15 ppm	Alcalinity (NH3) <=1 ppm
Ethyl alcohol <=200 ppm	Chloride <=0.2 ppm	Carbonyl Compounds (CO) <=5 ppm
Phosphate <=0.5 ppm	Heavy metals (Pb) <=0.2 ppm	Subst. reducing KMnO4 <=2.5 ppm
Total sulphur <=1 ppm	Ag <=0.2 ppm	Al <=0.05 ppm
As <=0.01 ppm	Au <=0.05 ppm	B <=0.01 ppm
Ba <=0.1 ppm	Be <=0.02 ppm	Bi <=0.02 ppm
Ca <=0.5 ppm	Cd <=0.005 ppm	Co <=0.01 ppm
Cr <=0.01 ppm	Cu <=0.01 ppm	Fe <=0.1 ppm
Ga <=0.02 ppm	In <=0.02 ppm	K <=0.1 ppm
Li <=0.02 ppm	Mg <=0.1 ppm	Mn <=0.01 ppm
Mo <=0.05 ppm	Na <=0.5 ppm	Ni <=0.01 ppm
Pb <=0.01 ppm	Pt <=0.05 ppm	Sb <=0.01 ppm
Sn <=0.02 ppm	Sr <=0.02 ppm	Ti <=0.05 ppm
Tl <=0.05 ppm	V <=0.05 ppm	Zn <=0.01 ppm
Zr <=0.05 ppm		

Code	Size	Packaging
414917	ml 1000	Bottle
414914	ml 2500	Glass bottle
414918	l 27	Polythene-metal drum

## RS-SPECTROSOL-for optical spectroscopy



Assay (GC) >= 99.85 %	Refractive index at 20°C 1.327 - 1.331	Water content (K.F.) <= 500 mg/Kg
Colour <= 10 Hazen	UV transmittance at 210 nm >= 20 %	UV transmittance at 220 nm >= 50 %
UV transmittance at 230 nm >= 75 %	UV transmittance at 240 nm >= 90 %	UV transmittance at 250 nm >= 95 %
UV transmittance at 260 nm >= 98 %	Free alkali (as NH3) <= 1 mg/Kg	Non volatile residue <= 5 mg/Kg
Carbonyl compounds (as CH3COCH3) <= 20 mg/Kg	Free acid (as HCOOH) <= 10 mg/Kg	Ethanol <= 200 mg/Kg

Code	Size	Packaging
P0932716	ml 1000	Glass bottle
P0932721	ml 2500	Glass bottle

For further information on above products, see following product/application section(s)  
Solvents for spectroscopy (p. 68)

## RS-VSLI For electronic use-ERBATRON



Code	Size	Packaging
527640	ml 2500	Glass bottle

## Methanol - Pharmaceutical Grade

## RPH-According to pharmacopoeia: NF-DAB



Assay (GLC) >=99.5 %	Description Clear colourless liquid	Acidity Conform DAB
Organic volatile impurities Conform USP-NF	Ready carbonizable substances Conform USP-NF	Ready oxidizable substances Conform USP-NF
Density at 20° C 0.791 ± 0.793	Refractive index at 20° 1.328 ± 1.330	Distillation range 64 ± 65 ° C
Water (K.F.) <=0.1 %	Residue on evaporation <=10 ppm	Acetone <=10 ppm
Alcalinity (NH3) <=3 ppm	Acetone and aldehydes <= 30 ppm	Heavy metals and Zn <=2 ppm
Fe <=1 ppm	Origin (BSE/TSE) Synthesis	Residual solvents (CPMP/ICH/283/95) Conform

Code	Size	Packaging
309204	ml 1000	Glass bottle
309203	ml 2500	Glass bottle
309206	kg 160	Metal drum
309201	l 25	Plastic drum
309202	l 50	Plastic drum

## Methanol - Technical Grade

## PS-Pure-for synthesis



Assay (GC) >= 99.8 %	Refractive index at 20°C 1.327 - 1.331	Water content (K.F.) <= 300 mg/Kg
Non volatile residue <= 20 mg/Kg	Colour <= 10 Hazen	Free acid (as HCOOH) <= 20 mg/Kg
Free alkali (as NH3) <= 1 mg/Kg	KMnO4 reducing subst. (as O) <= 2 mg/Kg	

Code	Size	Packaging
P0930222	ml 5000	Plastic drum
P0930241	l 10	Plastic drum
P0930242	l 20	Plastic drum
P0930249	l 25	Plastic drum
P0930268	l 200	Metal drum

**Methanol - Technical Grade****RE-Pure**

Assay (GLC) &gt;=99.6 %

Description Clear colourless liquid

Density at 20° C 0.791 ± 0.793

Refractive index at 20° 1.3278 ± 1.3298

Boiling point 64,1 ± 65,1 ° C

Residue on evaporation &lt;=100 ppm

Acidity (formic acid) &lt;=300 ppm

Alcalinity (NH3) &lt;=10 ppm

Water (K.F.) &lt;=0.1 %

Code	Size	Packaging
309004	ml 1000	Glass bottle
309001	ml 2500	Glass bottle
528101	ml 5000	Plastic bottle
309009	kg 160	Metal drum
309008	l 10	Plastic tank
309002	l 25	Polythene-metal drum

**Methanol-d1**

Alcole metilico-d1 - Méthanol-d1 - Alcohol metilico-d1

**CH<sub>3</sub>DO**Atomic weight: 33,050  
CAS N: 1455-13-6  
EEC N: 215-933-0**Transport classification**ONU n. 1230  
Transport class: 3  
Packaging group: IIR: 11-23/24/25-39/23/24/25  
S: 7-16-36/37-45**Methanol-d1 - Special Grade****RS-For NMR spectroscopy**

Code	Size	Packaging	Notes
P5275	ml 25	Glass bottle	Isotopic purity 99,50%

For further information on above products, see following product/application section(s)  
NMR Spectroscopy (p. 65)**Methanol-d3**

Alcole metilico-d3 - Méthanol-d3 - Alcohol metilico-d3

**CHD<sub>3</sub>O**Atomic weight: 35,070  
CAS N: 1849-29-2  
EEC N: 217-435-9**Transport classification**ONU n. 1230  
Transport class: 3  
Packaging group: IIR: 11-23/24/25-39/23/24/25  
S: 7-16-36/37-45**Methanol-d3 - Special Grade****RS-For NMR spectroscopy**

Code	Size	Packaging	Notes
P5309	10 x ml 0,75	Ampoule	Isotopic purity 99,50%

For further information on above products, see following product/application section(s)  
NMR Spectroscopy (p. 65)**Methanol-d4**

Alcole metilico-d4 - Méthanol-d4 - Alcohol metilico-d4

**CD<sub>3</sub>ODC D<sub>4</sub>O**Atomic weight: 36,07  
CAS N: 811-98-3  
EEC N: 212-378-6**Transport classification**ONU n. 1230  
Transport class: 3  
Secondary risk: 6.1  
Packaging group: IIR: 11-23/24/25-39/23/24/25  
S: 7-16-36/37-45**Methanol-d4 - Special Grade****RS-For NMR spectroscopy**

Code	Size	Packaging	Notes
P5283A	ml 5	Ampoule	Isotopic purity 99,80%
P5284S	ml 10	Bottle with sept	Isotopic purity 99,80%
P5285	ml 25	Glass bottle	Isotopic purity 99,80%
P5140	10 x ml 0,6	Ampoule	+0,03% TMS - Isotopic purity 99,80%
P5280	10 x ml 0,6	Ampoule	Isotopic purity 99,80%
P5284	5 x ml 10	Ampoule	Isotopic purity 99,80%
P5289	10 x ml 0,75	Glass bottle	Isotopic purity 99,80%
P5310	10 x ml 0,6	Ampoule	Isotopic purity 99,96%
P5319	10 x ml 0,75	Ampoule	Isotopic purity 99,96%

For further information on above products, see following product/application section(s)  
NMR Spectroscopy (p. 65)**DL-Methionine**

DL-Metionina - DL-Méthionine - DL-Metionina

**CH<sub>3</sub>S(CH<sub>2</sub>)<sub>2</sub>CHNH<sub>2</sub>COOH**Atomic weight: 149,21  
CAS N: 59-51-8  
EEC N: 200-432-1**DL-Methionine - Analytical Grade**



## DL-Methionine - Analytical Grade



## RPE-For analysis

Assay (non-aqueous medium) 99.0 + 101.0 % (s.s.)	Description White crystalline powder	pH sol, 1% in H <sub>2</sub> O 5.6 + 6.1
Loss on drying <=0.2 %	Ammonium <=200 ppm	Chloride <=200 ppm
Heavy metals (Pb) <=10 ppm	Residue on ignition <=0.1 %	Sulphate <=200 ppm
Fe <=10 ppm		

Code	Size	Packaging
463126	g 250	Plastic jar

For biochemistry

## 2-Methoxy ethanol

*2-Metossietanolo - Glycol éthylique monométhylether - 2-Metoxietanol*

**CH<sub>3</sub>OCH<sub>2</sub>CH<sub>2</sub>OH**  
 Atomic weight: 76,096  
 CAS N: 109-86-4  
 EEC N: 203-713-7

**Transport classification**  
 ONU n. 1188  
 Transport class: 3  
 Packaging group: III



R: 60-61-10-20/21/22  
 S: 53-45

## 2-Methoxy ethanol - Analytical Grade



## RPE-For analysis

Assay (GLC) >=99.5 %	Description Clear colourless liquid	Identification (I.R.) Conform
Water miscibility Conform	Benzene miscibility complete	Diethyl ether miscib. complete
Density at 20° C 0.962 + 0.968	Refractive index at 20° 1.4004 + 1.4044	Boiling point 123.5 + 124.5 ° C
Water (K.F.) <=0.1 %	Residue on evaporation <=20 ppm	Acidity (acetic acid) <=30 ppm
Alcalinity (NH <sub>3</sub> ) <=0.85 ppm	Carbonyl Compounds (CO) <=25 ppm	Heavy metals (Pb) <=2 ppm
Peroxides (H <sub>2</sub> O <sub>2</sub> ) <=10 ppm	Al <=0.5 ppm	Ba <=0.1 ppm
Ca <=0.5 ppm	Cd <=0.05 ppm	Co <=0.02 ppm
Cr <=0.02 ppm	Cu <=0.02 ppm	Fe <=1 ppm
Mg <=0.01 ppm	Mn <=0.02 ppm	Ni <=0.02 ppm
Pb <=0.1 ppm	Sn <=0.1 ppm	Zn <=0.1 ppm

Code	Size	Packaging
454021	ml 1000	Glass bottle
454024	ml 2500	Glass bottle
454023	kg 25	Metallic can
454028	kg 180	Polythene-metal drum

For further information on above products, see following product/application section(s)  
 Microscopy (p. 58)

## 2-Methoxy ethanol - Special Grade



## RS-For aquametry

Assay (GLC) >=99.5 %	Description Clear colourless liquid	Density at 20° C 0.962 + 0.968
Refractive index at 20° 1.4004 + 1.4044	Boiling point 123.5 + 124.5 ° C	Water (K.F.) <=0.1 %

Code	Size	Packaging
454032	ml 1000	Glass bottle

## p-Methoxyazobenzene

*p-Metossi azobenzene - p-Méthoxyazobenzène - p-Metoxiazobenceno*

**CH<sub>3</sub>OOC<sub>6</sub>H<sub>4</sub>N=NC<sub>6</sub>H<sub>5</sub>**  
 Atomic weight: 212,26  
 CAS N: 2396-60-3  
 EEC N: 219-250-9



R: 20/22  
 S: 28

## p-Methoxyazobenzene - Analytical Grade



## RPE-For analysis

Description Polvere crist. marrone	Melting point 54.0 + 56.0 ° C	Residue on ignition <=300 ppm
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Code	Size	Packaging
463131	g 1	Glass bottle

## α-Methoxyphenylacetic acid

*Acido α-metossifenilacetico - Acide α-méthoxyphénylacétique - Acido α-metoxifenilacético*

**C<sub>6</sub>H<sub>5</sub>CH(OCH<sub>3</sub>)COOH**  
 Atomic weight: 166,18  
 CAS N: 1701-77-5  
 EEC N: 216-933-3

## α-Methoxyphenylacetic acid - Analytical Grade



## RPE-For analysis-Reag. Ph.Eur.

Assay >=99 %	Description Yellowish crystalline powder	Melting point 69 + 71 ° C
Sulphated ash <=0.05 %		

Code	Size	Packaging
407441	g 5	Glass jar

## 3-Methyl-1-phenyl-5-pyrazolone

3-Metile -1-fenile-5-pirazolone - 3-Méthyl-1-phényl-5-pyrazolone - 3-Metil-1-fenil-5-pirazolona

**C<sub>8</sub>H<sub>8</sub>NN:C(CH<sub>3</sub>)CH<sub>2</sub>CO**  
 Atomic weight: 174,20  
 CAS N: 89-25-8  
 EEC N: 201-891-0

## 3-Methyl-1-phenyl-5-pyrazolone - Analytical Grade

## RPE-For analysis



Assay (non-aqueous medium) >=98 % Description Yellowish crystalline powder Melting point 128 + 130 ° C

Code	Size	Packaging
462541	g 100	Plastic jar

## 3-Methyl-2-benzothiazolinone hydrazone hydrochloride

**C<sub>8</sub>H<sub>8</sub>N<sub>2</sub>S.HCl.H<sub>2</sub>O**  
 Atomic weight: 233,72  
 CAS N: 38894-11-0  
 EEC N: 238-428-7

## 3-Methyl-2-benzothiazolinone hydrazone hydrochloride - Analytical Grade

## RPE-For analysis



Assay (argentimetric) >= 97.5 % (s.s.) Description White powder Loss on drying <= 8 %  
 Sensibilità (gruppo OH) Conform

Code	Size	Packaging
462238	g 5	Glass jar

## 4-Methyl-1,2-dimercaptobenzene

4-Metile-1,2-dimercaptobenzene - 4-Méthyl-1,2-dimercaptobenzène - 4-Metil-1,2-dimercaptobenceno

**CH<sub>2</sub>C<sub>6</sub>H<sub>4</sub>(SH)<sub>2</sub>**  
 Atomic weight: 156,25  
 CAS N: 496-74-2  
 EEC N: 207-828-3

## 4-Methyl-1,2-dimercaptobenzene - Analytical Grade

## RPE-For analysis



Assay (GLC) >= 94 % Description Yellowish crystals

Code	Size	Packaging
462457	g 1	Glass bottle

## 6-Methyl-2,4-heptandione

6-Metile-2,4-eptandione - 6-Méthyl-2,4-heptanedione - 6-Metil-2,4-heptandiona

**CH<sub>3</sub>CH(CH<sub>3</sub>)CH<sub>2</sub>COCH<sub>2</sub>COCH<sub>3</sub>**  
 Atomic weight: 142,19  
 CAS N: 3002-23-1  
 EEC N: 221-093-6

## 6-Methyl-2,4-heptandione - Analytical Grade

## RPE-For analysis



Assay (GLC) 99 + 100 % Description Clear colourless liquid Density at 20 ° C 0.915 + 0.921  
 Refractive index at 20° 1.4535 + 1.4575 Boiling point 184.8 + 185.3 ° C Acidity (acetic acid) <=0.3 %  
 Residue on ignition <=20 ppm

Code	Size	Packaging
462472	ml 100	Glass bottle

## 6-Methyl-2-thiouracil

6-Metile-2-tiouracile - 6-Méthyl-2-thiouracile - 6-Metil-2-tiouracilo

**C<sub>6</sub>H<sub>8</sub>N<sub>2</sub>OS**  
 Atomic weight: 142,18  
 CAS N: 56-04-2  
 EEC N: 200-252-3



R: 20/21/22-40  
 S: 22-24/25-45

## 6-Methyl-2-thiouracil - Analytical Grade

## RPE-For analysis



Assay(mercurimetric) 99 + 100 % Description White powder Loss on drying <=0.5 %  
 Heavy metals (Pb) <=20 ppm Residue on ignition <=0.1 % Thiourea <=0.1 %  
 Fe <=10 ppm

Code	Size	Packaging
462921	g 10	Glass jar

## Methyl-ethyl ketone

Metilietilichetone - Méthyléthylcétone - Metilietilcetona

CH<sub>3</sub>CH<sub>2</sub>COCH<sub>3</sub>

Atomic weight: 72,108

CAS N: 78-93-3

EEC N: 201-159-0

### Transport classification

ONU n. 1193

Transport class: 3

Packaging group: II



R: 11-36-66-67  
S: 9-16

A  
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Z

### Methyl-ethyl ketone - Analytical Grade

#### PA-PUREX-for analysis

sds

Assay (GC) >= 99.5 %	Refractive index at 20°C 1.377 - 1.381	Water content (K.F.) <= 500 mg/Kg
Non volatile residue <= 10 mg/Kg	Colour <= 10 Hazen	Free acid (as CH <sub>3</sub> COOH) <= 30 mg/Kg

Code	Size	Packaging
P0200540	l 10	Metal tank
P0200548	l 25	Metal drum

#### RPE-For analysis

CARLO ERBA

Assay (GLC) >= 99.5 %	Description Clear colourless liquid	Identification (I.R.) Positive
Alcohol miscibility complete	Diethyl ether miscib. complete	Water solubility Conform
Density at 20° C 0.802 ± 0.808	Refractive index at 20° 1.3784 ± 1.3834	Boiling point 79 ± 80 °C
Water (K.F.) <= 0.1 %	Residue on evaporation <= 20 ppm	Acidity (acetic acid) <= 30 ppm
Aldehydes(Formaldehyde) <= 20 ppm	Heavy metals (Pb) <= 1 ppm	Subst. reducing KMnO <sub>4</sub> <= 2 ppm(15m)
Al <= 0.5 ppm	Ba <= 0.1 ppm	Ca <= 0.5 ppm
Cd <= 0.05 ppm	Co <= 0.02 ppm	Cr <= 0.02 ppm
Cu <= 0.02 ppm	Fe <= 0.1 ppm	Mg <= 0.1 ppm
Mn <= 0.02 ppm	Ni <= 0.02 ppm	Pb <= 0.1 ppm
Sn <= 0.1 ppm	Zn <= 0.1 ppm	

Code	Size	Packaging
462701	ml 1000	Glass bottle
462703	ml 2500	Glass bottle
462702	kg 22	Metal drum

### Methyl-ethyl ketone - Special Grade

#### RS-Anhydrous-for analysis

sds

Assay (GC) >= 99.5 %	Refractive index at 20°C 1.377 - 1.381	Water content (K.F.) <= 200 mg/Kg
Non volatile residue <= 10 mg/Kg	Colour <= 10 Hazen	Free acid (as CH <sub>3</sub> COOH) <= 30 mg/Kg

Code	Size	Packaging
P0201016	ml 1000	Glass bottle

For further information on above products, see following product/application section(s)  
Anhydrous solvents (p. 27)

### Methyl-ethyl ketone - Technical Grade

#### PS-Pure-for synthesis

sds

Assay (GC) >= 99.5 %	Refractive index at 20°C 1.377 - 1.381	Water content (K.F.) <= 1000 mg/Kg
Non volatile residue <= 50 mg/Kg	Colour <= 10 Hazen	Free acid (as CH <sub>3</sub> COOH) <= 30 mg/Kg
Total alcohols <= 0.5 %		

Code	Size	Packaging
P0200222	ml 5000	Plastic drum
P0200228	ml 5000	Metal tank
P0200248	l 25	Metal drum
P0200268	l 200	Metal drum

#### RE-Pure

CARLO ERBA

Assay (GLC) >= 99 %	Description Clear colourless liquid	Density at 20° C 0.800 ± 0.810
Refractive index at 20° 1.3784 ± 1.3844	Boiling point 79 ± 80 °C	Water (K.F.) <= 0.1 %
Residue on evaporation <= 20 ppm	Acidity (acetic acid) <= 30 ppm	

Code	Size	Packaging
354254	ml 1000	Glass bottle
354253	ml 2500	Glass bottle
354251	kg 22	Metal drum
354255	kg 160	Metal drum
528976	l 25	Drum
528977	l 200	Drum

## Methyl-isoamyl alcohol

Metile isobutilcarbinolo - Méthyl isobutylcarbinol - Metilisoobutilcarbinol

(CH<sub>3</sub>)<sub>2</sub>CHCH<sub>2</sub>CHOHCH<sub>3</sub>

Atomic weight: 102,17

CAS N: 108-11-2

EEC N: 203-551-7

### Transport classification

ONU n. 2053

Transport class: 3

Packaging group: III



R: 10-37  
S: 24/25

### Methyl-isoamyl alcohol - Analytical Grade

## Methyl-isoamyl alcohol - Analytical Grade

## RPE-For analysis



Assay (GLC) >= 99.0 % Description Clear colourless liquid Refractive index at 20° 1.4100 + 1.4120

Code	Size	Packaging
461911	ml 1000	Glass bottle

## Methyl-isoamyl ketone

*Metilisoamilchetone - Méthylisoamylcétone - Metilisoamilcetona*

C<sub>7</sub>H<sub>14</sub>O

Atomic weight: 114.1855,000

CAS N: 110-12-3

EEC N: 203-737-8

## Transport classification

ONU n. 2302

Transport class: 3

Packaging group: III



## Methyl-isoamyl ketone - Technical Grade

## PS-Pure-for synthesis



Assay (GC) >= 98 % Refractive index at 20°C 1.404 - 1.408 Water content (K.F.) <= 1000 mg/Kg  
Non volatile residue <= 50 mg/Kg Colour <= 10 Hazen Free acid (as CH<sub>3</sub>COOH) <= 200 mg/Kg

Code	Size	Packaging
P0900221	ml 2500	Glass bottle

## N-Methyl-2-pyrrolidone

*N-Metile-2-pirrolidone - n-Méthyle-2-pyrrolidone - N-Metil-2-pirrolidona*

CH<sub>2</sub>(CH<sub>2</sub>)<sub>2</sub>CON(CH<sub>3</sub>)

Atomic weight: 99,13

CAS N: 872-50-4

EEC N: 212-828-1

## Transport classification

Packaging group: II



R: 36/38  
S: 41

## N-Methyl-2-pyrrolidone - Analytical Grade

## PA-PUREX-for analysis



Assay (GC) >= 99.5 % Refractive index at 20°C 1.466 - 1.47 Water content (K.F.) <= 500 mg/Kg  
Colour <= 20 Hazen Bromophenol blue test Conform Non volatile residue <= 50 mg/Kg

Code	Size	Packaging
P0873541	l 10	Plastic drum

## RPE-For analysis



Assay (GLC) >= 99.8 % Description Clear colourless liquid Density at 20° C 1.026 + 1.032  
Refractive index at 20° 1.4670 + 1.4710 Water (K.F.) <= 0.05 % Butirrolattone <= 500 ppm  
Monometilammina <= 50 ppm

Code	Size	Packaging
462872	ml 1000	Glass bottle
462874	kg 23	Glass-polystyrene container
462873	kg 210	Metal drum

## N-Methyl-2-pyrrolidone - Special Grade

## RS-For peptide synthesis



Assay (GC) >= 99.5 % Refractive index at 20°C 1.466 - 1.47 Water content (K.F.) <= 500 mg/Kg  
Colour <= 20 Hazen Bromophenol blue test Conform Non volatile residue <= 50 mg/Kg

Code	Size	Packaging
P0873516	ml 1000	Glass bottle
P0873521	ml 2500	Glass bottle
P0873549	l 25	Plastic drum
P0873566	l 200	Combined drum

## N-Methyl-2-pyrrolidone - Technical Grade

## PS-Pure-for synthesis



Assay (GC) >= 99.5 % Refractive index at 20°C 1.466 - 1.47 Water content (K.F.) <= 1000 mg/Kg  
Colour <= 50 Hazen Non volatile residue <= 50 mg/Kg

Code	Size	Packaging
P0870216	ml 1000	Glass bottle
P0870221	ml 2500	Glass bottle
P0870228	ml 5000	Plastic drum
P0870248	l 25	Metal drum

## N-Methyl-imidazole

*N-metilimidazolo - N-Methylimidazole - N-Metilimidazole*

C<sub>4</sub>H<sub>7</sub>N<sub>2</sub>

Atomic weight: 82,104

CAS N: 616-47-7

EEC N: 210-484-7

## Transport classification

Transport class: NI



## N-Methyl-imidazole - Technical Grade

## N-Methyl-imidazole - Technical Grade

## PS-Pure-for synthesis

sds

Assay (GC) >= 99 %      Refractive index at 20°C 1.495 - 1.499      Water content (K.F.) <= 0.5 % m/m  
 Colour <= 25 Hazen

Code	Size	Packaging
P6940221	ml 2500	Glass bottle

## N-Methyl-imidazole 10% in THF

N-metilimidazolo 10% in THF - N-Methylimidazole 10% dans THF - N-Metilimidazole 10% en THF

**CaH<sub>12</sub>N<sub>2</sub>**  
 CAS N: 616-47-7  
 EEC N: 210-484-7

**Transport classification**  
 ONU n. 2924  
 Transport class: 3  
 Packaging group: II



## N-Methyl-imidazole 10% in THF - Analytical Grade

## PA-PUREX-for analysis

sds

Water content (K.F.) <= 100 mg/Kg

Code	Size	Packaging
P0823521	ml 2500	Glass bottle

## N-Methyl-N-trimethylsilyltrifluoroacetamide

N-Metile-N-trimetilsililtrifluoroacetamide - n-Méthyl-n-triméthylsilyltrifluoroacétamide - N-metil-N-(trimetilsilil)trifluoroacetamida

**CF<sub>3</sub>CON(CH<sub>3</sub>)Si(CH<sub>3</sub>)<sub>3</sub>**  
 Atomic weight: 199.2  
 CAS N: 24589-78-4  
 EEC N: 246-331-6

**Transport classification**  
 ONU n. 1993  
 Transport class: 3  
 Packaging group: III



R: 10-36/37/38  
 S: 7/8-16-24/25

## N-Methyl-N-trimethylsilyltrifluoroacetamide - Analytical Grade

## RPE-For analysis

CARLO ERBA

Description Yellow colourless liquid      Boiling point 130 ± 132 ° C

Code	Size	Packaging
461832	g 1	Glass vial

For further information on above products, see following product/application section(s)  
 Chromatography (p. 34)

## Methyl acetate

Metile acetato - Méthyle acétate - Metilo acetato

**CH<sub>3</sub>COOCH<sub>3</sub>**  
 Atomic weight: 74.08  
 CAS N: 79-20-9  
 EEC N: 201-185-2

**Transport classification**  
 ONU n. 1231  
 Transport class: 3  
 Packaging group: II



R: 11-36-66-67  
 S: 16-26-29-33

## Methyl acetate - Analytical Grade

## RPE-For analysis

CARLO ERBA

Assay (GLC) >= 99 %      Description Clear liquid      Colour (APHA) <= 10  
 Density at 20° C 0.930 ± 0.936      Water (K.F.) <= 500 ppm

Code	Size	Packaging
462017	ml 1000	Glass bottle

## Methyl acetate - Special Grade

## RS-For HPLC-Isocratic Grade

sds

Assay (GC) >= 99.8 %      Refractive index at 20°C 1.359 - 1.363      Water content (K.F.) <= 500 mg/Kg  
 Non volatile residue <= 10 mg/Kg      Colour <= 10 Hazen      Free acid (as CH<sub>3</sub>COOH) <= 25 mg/Kg  
 UV Absorbance at 255 nm <= 1 AU      UV Absorbance at 275 nm <= 0.1 AU      UV Absorbance at 300 nm <= 0.01 AU

Code	Size	Packaging
P0043721	ml 2500	Glass bottle

## Methyl acetate - Technical Grade

## PS-Pure-for synthesis

sds

Assay (GC) >= 95 %      Refractive index at 20°C 1.359 - 1.363      Colour <= 10 Hazen  
 Methanol <= 1 %

Code	Size	Packaging
P0040016	ml 1000	Glass bottle
P0040228	ml 5000	Metal tank
P0040248	l 25	Metal drum
P0040268	l 200	Metal drum

## Methyl amine solution 40% in water

*Metilamina soluzione 40% in acqua - Méthylamine en solution à 40% dans l'eau - Metilamina solución 40% en agua*

CAS N: 74-89-5



R: 20-22-34  
S: 3-16-26-29-36/37/39-45

### Methyl amine solution 40% in water - Technical Grade

#### RE-Pure



Assay (alkalimetric) >=40 %	Description Clear colourless liquid	Density at 20° C 0.900 ± 0.910
Residue on evaporation <=0.1 %		

Code	Size	Packaging
353002	kg 25	Drum

## Methyl benzoate

*Metile benzoato - Méthyle benzoate - Metilo benzoato*

Cc1ccccc1C(=O)O

Atomic weight: 136,15

CAS N: 93-58-3

EEC N: 202-259-7



R: 22-36/37/38  
S: 23-24/25

### Methyl benzoate - Analytical Grade

#### RPE-For analysis



Assay (GLC) >=99 %	Description Clear colourless liquid	Diethyl ether miscib. complete
Density at 15° C 1.091 ± 1.097	Refract. index at 25° C 1.5200 ± 1.5210	Boiling point 194.5 ± 196.5 °C
Water (K.F.) <=0.1 %	Residue on evaporation <=100 ppm	Acidity (benzoic acid) <=0.12 %
Carbonyl Compounds (CO) <=0.2 %		

Code	Size	Packaging
462201	ml 100	Glass bottle
462207	ml 1000	Glass bottle

For further information on above products, see following product/application section(s)

Microscopy (p. 58)

## Methyl blue

*Blu metile - Bleu de méthyle - Azul de metilo*

C12=CC=CC=C1C=C(N)N=N

Atomic weight: 799,80

CAS N: 28983-56-4

EEC N: 249-352-9



R: 20/21/22

### Methyl blue - Special Grade

#### RS-For microscopy-C.I. 42780



Description Red-violet crystals	Sensib.(pH 9.0-11.0) Conform

Code	Size	Packaging
428932	g 25	Glass jar

Stain for Histology-microbiology.

For further information on above products, see following product/application section(s)

Microscopy (p. 58)

## Methyl green

*Verde metile - Vert de méthyle - Verde de metilo*

Cc1ccccc1C(=O)N

Atomic weight: 458,480

CAS N: 22383-16-0

EEC N: 201-447-6



R: 36/37/38  
S: 23-26-36/37/39

### Methyl green - Special Grade

#### RS-For microscopy-C.I. 42585



Description Dark green powder

Code	Size	Packaging
491351	g 10	Glass jar

Stain for Cytology.

For further information on above products, see following product/application section(s)

Microscopy (p. 58)

## Methyl iodide

*Metile ioduro - Méthyle iodure - Metilo yoduro*

CI

Atomic weight: 141,95

CAS N: 74-88-4

EEC N: 200-819-5

Transport classification  
ONU n. 2644  
Transport class: 6.1  
Packaging group: I



R: 21-23/25-37/38-40  
S: 36/37-38-45

### Methyl iodide - Analytical Grade

## Methyl iodide - Analytical Grade

## RPE-For analysis



Assay (GLC) $\geq$ 99 %	Description Clear colourless liquid	Density at 20° C 2.276 $\pm$ 2.284
Refractive index at 20° 1.5273 $\pm$ 1.5313	Boiling point 42.0 $\pm$ 43.0 °C	Water (K.F.) $\leq$ 300 ppm
Residue on evaporation $\leq$ 50 ppm	Aidity(Hydrogen iodide) $\leq$ 0.1 %	

Code	Size	Packaging
462601	ml 50	Glass bottle
462604	ml 250	Glass bottle

Stabilized with Ag.

## Methyl iodide - Technical Grade

## RE-Pure



Assay (GLC) $\geq$ 97 %	Description Yellow clear liquid	Density at 20° C 2.275 $\pm$ 2.285
Refractive index at 20° 1.5263 $\pm$ 1.5323	Boiling point 41.8 $\pm$ 43.3 °C	Residue on evaporation $\leq$ 100 ppm

Code	Size	Packaging
353753	ml 250	Glass bottle
353751	ml 1000	Glass bottle

Stabilized with Ag.

## Methyl isobutyl ketone

*Metile isobutilchetone - Méthylisobutylcétone - Metilisobutilcetona*

CH3COCH2CH(CH3)2  
 Atomic weight: 100,16  
 CAS N: 108-10-1  
 EEC N: 203-550-1

**Transport classification**  
 ONU n. 1245  
 Transport class: 3  
 Packaging group: II

R: 11-20-36/37-66  
 S: 9-16-29

## Methyl isobutyl ketone - Analytical Grade

## PA-PUREX-for analysis



Assay (GC) $\geq$ 99.5 %	Refractive index at 20°C 1.394 - 1.398	Water content (K.F.) $\leq$ 500 mg/Kg
Non volatile residue $\leq$ 10 mg/Kg	Colour $\leq$ 10 Hazen	Acetone $\leq$ 0.1 %
Mesityl and isomesityl oxide $\leq$ 0.1 %	4-methyl-2-pentanol $\leq$ 0.1 %	Free acid (as CH <sub>3</sub> COOH) $\leq$ 50 mg/Kg

Code	Size	Packaging
P0600528	ml 5000	Metal tank

## RPE-ACS-for analysis-Reag. Ph.Eur.-Reag. USP



Assay (GLC) $\geq$ 99.5 %	Description Clear liquid	Colour (APHA) $\leq$ 10
Identification (I.R.) Conform	Alcohol miscibility complete	Benzene miscibility complete
Diethyl ether miscib. complete	Density at 20° C 0.797 $\pm$ 0.805	Refractive index at 20° 1.3930 $\pm$ 1.3990
Boiling point 115.7 $\pm$ 116.7 °C	Water (K.F.) $\leq$ 0.1 %	Residue on evaporation $\leq$ 10 ppm
Acidity $\leq$ 0.002 meq/g	Alcalinity (NH <sub>3</sub> ) $\leq$ 10 ppm	Cd $\leq$ 0.05 ppm
Cu $\leq$ 0.1 ppm	Fe $\leq$ 0.1 ppm	Ni $\leq$ 0.1 ppm
Pb $\leq$ 0.1 ppm	Zn $\leq$ 0.1 ppm	

Code	Size	Packaging
461945	ml 1000	Glass bottle
461943	kg 21	Metal drum

## Methyl isobutyl ketone - Technical Grade

## PS-Pure-for synthesis



Assay (GC) $\geq$ 99.5 %	Refractive index at 20°C 1.394 - 1.398	Water content (K.F.) $\leq$ 200 mg/Kg
Non volatile residue $\leq$ 10 mg/Kg	Colour $\leq$ 10 Hazen	Acetone $\leq$ 0.1 %
Mesityl and isomesityl oxide $\leq$ 0.1 %	4-methyl-2-pentanol $\leq$ 0.1 %	Free acid (as CH <sub>3</sub> COOH) $\leq$ 50 mg/Kg

Code	Size	Packaging
P0601016	ml 1000	Glass bottle
P0600228	ml 5000	Plastic drum
P0600240	l 10	Metal tank
P0600248	l 25	Metal drum
P0600268	l 200	Metal drum

## RE-Pure



Assay (GLC) $\geq$ 99 %	Description Clear liquid	Density at 20°C 0.797 $\pm$ 0.805
Refractive index at 20°C 1.3930 $\pm$ 1.3990	Boiling point 115.7 $\pm$ 116.7 °C	Acidity (Acetic ac.) $\leq$ 100 ppm
Residue on evaporation $\leq$ 200 ppm	Water (K.F.) $\leq$ 1000 ppm	

Code	Size	Packaging
528980	ml 5000	Metal tank
528981	l 25	Drum

## Methyl isothiocyanate

Metile isotiocianato - Méthyle isothiocyanate - Metilo isotiocianato

CH<sub>3</sub>NCSAtomic weight: 73,12  
CAS N: 556-61-6  
EEC N: 209-132-5

## Transport classification

ONU n. 2477  
Transport class: 6.1  
Secondary risk: 3  
Packaging group: IR: 23/25-34-43-50/53  
S: 36/37-38-45-60-61

## Methyl isothiocyanate - Analytical Grade

## RPE-For analysis

Carlo Erba Reagents

Description Massa xx.na gla-brun

Boiling point 118 + 120 °C

Melting point 33 + 36 °C

Code	Size	Packaging
462531	g 100	Glass bottle

Derivatizer for chromatography. Keep at 0-4°C

For further information on above products, see following product/application section(s)

Chromatography (p. 34)

## Methyl orange

Arancio metile - Méthylorange - Naranja de metilo

C<sub>14</sub>H<sub>14</sub>N<sub>2</sub>NaO<sub>3</sub>SAtomic weight: 327,34  
CAS N: 547-58-0  
EEC N: 208-925-3

## Transport classification

ONU n. 3143  
Transport class: 6.1  
Packaging group: IIIR: 25  
S: 27-45

## Methyl orange - Analytical Grade

## RPE-ACS-for analysis-C.I. 13025

Carlo Erba Reagents

Description Yellow-orange powder

Appearance of solution Conform ACS

Colour change rosso-giallo

pH range 3.2 + 4.4 pH

Code	Size	Packaging
423503	g 50	Plastic jar
423505	g 250	Plastic jar
423501	g 500	Plastic jar
423502	kg 25	Carton drum

Stain for Microscopy (hystology). Indicator (pH 3,0+4,4).

## Methyl Orange solution 0.1% in water

Arancio metile soluzione 0,1% in acqua - Méthylorange en solution à 0,1% dans l'eau - Naranja de metilo solución 0.1% en agua

C<sub>14</sub>H<sub>14</sub>N<sub>2</sub>NaO<sub>3</sub>SAtomic weight: 327,340  
CAS N: 547-58-0  
EEC N: 208-925-3

## Methyl Orange solution 0.1% in water - Analytical Grade

## RPE-For analysis

Carlo Erba Reagents

Description Orange clear liquid

Sensitivity (pH 3.1-4.4) Conform

Colour change Red - yellow

Code	Size	Packaging
423562	ml 500	Glass bottle

Indicator

## Methyl p-hydroxybenzoate

Metile p-ossibenzoato - Méthyle p-oxibenzoate - Metilo p-oxibenzoato

HO<sub>2</sub>C<sub>6</sub>H<sub>4</sub>COOCH<sub>3</sub>Atomic weight: 152,14  
CAS N: 99-76-3  
EEC N: 202-785-7

## Methyl p-hydroxybenzoate - Pharmaceutical Grade

## RPH-According to pharmacopoeia: Ph.Eur.-NF-FU-Ph.Franc.-BP-DAB

Carlo Erba Reagents

Assay (acidimetric) 99.0 + 100.5 %

Description White crystalline powder

Appearance of solution Conform Ph.Eur.

Acidity (HCl) Conform Ph.Eur.

Related substances Conform Ph.Eur.

Organic volatile impurities Conform USP-NF

Melting point 125 + 128 °C

Sulphated ash &lt;= 0.1 %

Origin (BSE/TSE) Synthesis

Code	Size	Packaging
354004	g 100	Plastic jar
354007	g 1000	Plastic jar

## Methyl red

Rosso metile - Rouge méthyle - Rojo de metilo

C<sub>15</sub>H<sub>14</sub>N<sub>2</sub>O<sub>2</sub>Atomic weight: 269,31  
CAS N: 493-52-7  
EEC N: 207-776-1

R: 20/21/22

## Methyl red - Analytical Grade



## Methyl red - Analytical Grade

## RPE-ACS-for analysis-C.I. 13020



Description Purple powder Melting point 179 + 182 °C Appear. of water sol. Conform  
Appear. of alcohol sol. Conform Colour change Red - yellow pH range 4.2 - 6.2

Code	Size	Packaging
476883	g 50	Plastic jar
476881	g 250	Plastic jar

## Methyl Red solution 0.2% in ethanol

Rosso metile soluzione 0,2% in alcole etilico - Rouge méthyle en solution à 0,2% dans l'éthanol - Rojo de metilo solución 0.2% en alcohol etilico

**C<sub>16</sub>H<sub>16</sub>O<sub>2</sub>N<sub>3</sub> / C<sub>2</sub>H<sub>5</sub>OH**  
Atomic weight: 269,310  
CAS N: 493-52-7  
EEC N: 207-776-1

Transport classification  
ONU n. 1993  
Transport class: 3  
Packaging group: III



R: 10-21/22  
S: 7-24

## Methyl Red solution 0.2% in ethanol - Analytical Grade

## RPE-For analysis



Description Purple liquid pH sensitivity 4.2 + 6.2 Colour change yellow red

Code	Size	Packaging
476915	ml 250	Bottle

Indicator according to Clark (pH 4,4+6,2).

## Methyl Red solution 0.1% in ethanol

Rosso metile soluzione 0,1% in alcole etilico - Rouge méthyle en solution à 0,1% dans l'éthanol - Rojo de metilo solución 0.1% en alcohol etilico

**C<sub>16</sub>H<sub>16</sub>O<sub>2</sub>N<sub>3</sub> / EtOH**  
Atomic weight: 269,310  
CAS N: 493-52-7  
EEC N: 207-776-1

Transport classification  
ONU n. 1993  
Transport class: 3  
Packaging group: III



R: 10-21/22  
S: 7-24

## Methyl Red solution 0.1% in ethanol - Analytical Grade

## RPE-For analysis



Description Purple liquid pH range 4.4 - 6.2

Code	Size	Packaging
476921	ml 250	Bottle

Indicator according to Clark (pH 4,4+6,2).

## Methyl salicylate

Metile salicilato - Méthyle salicylate - Metilo salicilato

**HO<sub>2</sub>C<sub>6</sub>H<sub>4</sub>COOCH<sub>3</sub>**  
Atomic weight: 152,06  
CAS N: 119-36-8  
EEC N: 204-317-7

Transport classification  
ONU n. 3082  
Transport class: 9  
Packaging group: III



R: 22-36/38  
S: 24/25

## Methyl salicylate - Pharmaceutical Grade

## RPH-According to pharmacopoeia: Ph.Eur.-FU-Ph.Franc.-BP-DAB



Assay (saponification) 99.0 + 100.5 % Description Yellowish liquid Relative density 1.180 + 1.186  
Refractive index at 20° 1.535 + 1.538 Appearance of solution Conform Ph.Eur. Acidity Conform Ph.Eur.  
Origin (BSE/TSE) Synthesis Residual solvents (CPMP/ICH/283/95) Conform

Code	Size	Packaging
354152	ml 1000	Bottle
354155	kg 25	Tank

## Methyl violet

Violetto metile - Violet de méthyle - Violeta de metilo 1B

**C<sub>24</sub>H<sub>27</sub>N<sub>3</sub>.HCl**  
Atomic weight: 393,96  
CAS N: 8004-87-3  
EEC N: 210-042-3

Transport classification  
ONU n. 3143  
Transport class: 6.1  
Packaging group: III



R: 23/24/25  
S: 36/37-45

## Methyl violet - Analytical Grade

## RPE-For analysis-C.I. 42535



Description Green powder Loss on drying <=10 % Residue on ignition <=5 %  
pH range 0.1 - 2.0

Code	Size	Packaging
491703	g 50	Glass jar

Stain for Microscopy (bacteriology-botany-hystology) Indicator (pH 0,1-2,0).

For further information on above products, see following product/application section(s)  
Microscopy (p. 58)

## Methyl yellow

Giallo metile - Jaune de méthyle - Amarillo de metilo

**(CH<sub>3</sub>)<sub>2</sub>NC<sub>6</sub>H<sub>4</sub>N:NC<sub>6</sub>H<sub>5</sub>**  
 Atomic weight: 225,3  
 CAS N: 60-11-7  
 EEC N: 200-455-7

**Transport classification**  
 ONU n. 3143  
 Transport class: 6.1  
 Packaging group: III



R: 24/25-40-43  
 S: 24-45

## Methyl yellow - Analytical Grade

## RPE-For analysis-C.I. 11020



Description Yellow orange powder pH range 2.9 - 4.0 Loss on drying <=3 %  
 Colour change Red - yellow

Code	Size	Packaging
444552	g 25	Glass jar

Indicator (pH 2,9÷4,0).

## Methylamine

Metilammina - Méthylamine - Metilamina

**CH<sub>3</sub>NH<sub>2</sub>**  
 Atomic weight: 31,06  
 CAS N: 74-89-5  
 EEC N: 200-820-0

**Transport classification**  
 ONU n. 1061  
 Transport class: 2.1



R: 12-20-37/38-41  
 S: 16-26-39

## Methylamine - Analytical Grade

## RPE-For analysis



Assay (GLC) >=97 % Description Clear colourless liquid Residue on evaporation <=50 ppm

Code	Size	Packaging
461704	g 100	Glass vial

## Methylamine hydrochloride

Metilammina cloridrato - Méthylamine chlorhydratée - Metilamina clorhidrato

**CH<sub>3</sub>NH<sub>2</sub>.HCl**  
 Atomic weight: 67,519  
 CAS N: 593-51-1  
 EEC N: 209-795-0

**Transport classification**  
 ONU n. 3077  
 Transport class: 9  
 Packaging group: III



R: 22-43-48/22-50/53  
 S: 36/37-46-60-61

## Methylamine hydrochloride - Analytical Grade

## RPE-For analysis



Assay (non-aqueous medium) >=99 % Assay (argentimetric) >=99 % Description White crystals  
 Melting point 225.0 ÷ 230.0 °C Water (K.F.) <=1 % Residue on ignition <=100 ppm  
 Heavy metals (Pb) <=10 ppm Sulphate <=100 ppm Fe <=10 ppm

Code	Size	Packaging
461753	g 50	Glass jar

## N-p-Methylaminophenol sulphate

Bis (4-idrossi-N-metilaniilino) solfato - N-Méthyl-p-aminophénol sulfate - N-p-Metil aminofenol sulfato

**(CH<sub>3</sub>NHC<sub>6</sub>H<sub>4</sub>OH)<sub>2</sub>.H<sub>2</sub>SO<sub>4</sub>**  
 Atomic weight: 344,39  
 CAS N: 55-55-0  
 EEC N: 200-237-1

**Transport classification**  
 ONU n. 3077  
 Transport class: 9  
 Packaging group: III



R: 22-43-48/22-50/53  
 S: 36/37-46-60-61

## N-p-Methylaminophenol sulphate - Analytical Grade

## RPE-ACS-for analysis



Assay (oxidimetric) 99.0 + 101.5 % Description White crystals Suit.for phosphate det. Conform  
 Residue on ignition <=0.1 %

Code	Size	Packaging
461805	g 250	Plastic jar

## N-p-Methylaminophenol sulphate - Technical Grade

## RE-Pure



Assay (acidimetric) >= 98.5 % Description Polvere cristallina bianco-grigiastra Identification (I.R.) Positive  
 Loss on drying <= 0.3 % Heavy metals (Pb) <= 30 ppm Residue on calcination <= 0.15 %  
 Fe <= 50 ppm

Code	Size	Packaging
353125	g 250	Plastic jar

## 2-Methylbutene-2

2-Metilbutene-2 - 2-Méthylbutène-2 - 2-Metil-2-buteno

**CH<sub>3</sub>CH=C(CH<sub>3</sub>)<sub>2</sub>**  
 Atomic weight: 70,13  
 CAS N: 513-35-9  
 EEC N: 208-156-3

**Transport classification**  
 ONU n. 2460  
 Transport class: 3  
 Packaging group: II



R: 12  
 S: 9-16-33

## 2-Methylbutene-2 - Analytical Grade

## RPE-For analysis



Assay (GLC) >=99 % Description Clear colourless liquid Refractive index at 20° 1.3860 ± 1.3880

Code	Size	Packaging
418253	ml 25	Glass bottle

## Methylcyclohexane

Metilcicloesano - Méthylcyclohexane - Metilciclohexano

**CH<sub>3</sub>CH(CH<sub>2</sub>)<sub>4</sub>CH<sub>3</sub>**  
 Atomic weight: 98,190  
 CAS N: 108-87-2  
 EEC N: 203-624-3

**Transport classification**  
 ONU n. 2296  
 Transport class: 3  
 Packaging group: II



R: 11-38-51/53-65-67  
 S: 9-16-33-61-62

## Methylcyclohexane - Analytical Grade

## PA-PUREX-for analysis



Assay (GC) >= 99 % Refractive index at 20°C 1.421 - 1.425 Water content (K.F.) <= 150 mg/Kg  
 Non volatile residue <= 10 mg/Kg Colour <= 10 Hazen Aromatic compounds <= 300 mg/Kg  
 Total sulphur (S) <= 1 ppm

Code	Size	Packaging
P0580516	ml 1000	Glass bottle

## Methylcyclohexane - Special Grade

## RS-Anhydrous-for analysis



Assay (GC) >= 99 % Refractive index at 20°C 1.421 - 1.425 Water content (K.F.) <= 50 mg/Kg  
 Non volatile residue <= 10 mg/Kg Colour <= 10 Hazen Aromatic compounds <= 300 mg/Kg  
 Total sulphur (S) <= 1 ppm

Code	Size	Packaging
P0581016	ml 1000	Glass bottle

For further information on above products, see following product/application section(s)  
 Anhydrous solvents (p. 27)

## RS-SPECTROSOL-for optical spectroscopy



Code	Size	Packaging
P0582716	ml 1000	Glass bottle

For further information on above products, see following product/application section(s)  
 Solvents for spectroscopy (p. 68)

## Methylcyclohexane - Technical Grade

## PS-Pure-for synthesis



Assay (GC) >= 99 % Refractive index at 20°C 1.421 - 1.425 Water content (K.F.) <= 300 mg/Kg  
 Non volatile residue <= 30 mg/Kg Colour <= 10 Hazen Aromatic compounds <= 500 mg/Kg  
 Total sulphur (S) <= 1 ppm

Code	Size	Packaging
P0580228	ml 5000	Metal tank
P0580248	l 25	Metal drum
P0580268	l 200	Metal drum

## RE-Pure



Assay (GLC) >= 99 % (GLC) Description Clear liquid Density at 20°C 0.766 ± 0.772  
 Refractive index at 20°C 1.419 ± 1.427 Boiling point 100.15 ± 100.65 °C Benzene <= 200 ppm  
 Total sulphur (S) <= 2 ppm Water (K.F.) <= 0.03 % Residue on evaporation <= 50 ppm

Code	Size	Packaging
528264	ml 1000	Glass bottle
528261	ml 5000	Metal tank
528260	l 25	Metal drum
528262	l 200	Metal drum

## Methylcyclopentane

Metilciclopentano - Méthylcyclopentane - Metilciclopentano

**CH<sub>3</sub>CH(CH<sub>2</sub>)<sub>3</sub>CH<sub>3</sub>**  
 Atomic weight: 84,163  
 CAS N: 96-37-7  
 EEC N: 202-503-2

**Transport classification**  
 ONU n. 2298  
 Transport class: 3  
 Packaging group: II



R: 11  
 S: 9-16-29-33

## Methylcyclopentane - Analytical Grade

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
M  
N  
O  
P  
Q  
R  
S  
T  
U  
V  
W  
X  
Y  
Z**Methylcyclopentane - Analytical Grade****RPE-For analysis**Assay (GLC)  $\geq 94\%$  Description Clear colourless liquid Refractive index at 20° 1.4077 + 1.4097

Code	Size	Packaging
462324	ml 1000	Glass bottle

**Methylene blue***Blu metilene - Bleu de méthylène - Azul de metileno*

**C<sub>16</sub>H<sub>18</sub>Na<sub>3</sub>SCl<sub>5</sub>H<sub>2</sub>O**  
 Atomic weight: 373,90  
 CAS N: 61-73-4  
 EEC N: 200-515-2

Transport classification  
 Packaging group: III



R: 20/21/22  
 S: 7-13-22

**Methylene blue - Analytical Grade****RPE-For analysis-C.I. 52015**

Assay 96 + 101 % Description Dark green powder

Code	Size	Packaging
429981	g 500	Plastic jar

**Methylene blue - Special Grade****RS-For analysis-C.I. 52015**

Description Blue - green powder

Code	Size	Packaging
428984	g 100	Plastic jar

For further information on above products, see following product/application section(s)

Indicators (p. 50)  
 Microscopy (p. 58)

**Methylene Blue saturated solution**

**C<sub>16</sub>H<sub>18</sub>Na<sub>3</sub>SCl<sub>5</sub>H<sub>2</sub>O**  
 Atomic weight: 373,900  
 CAS N: 61-73-4  
 EEC N: 200-515-2

Transport classification  
 ONU n. 1993  
 Transport class: 3  
 Packaging group: II



R: 11  
 S: 7-16-43

**Methylene Blue saturated solution - Analytical Grade****RPE-For analysis**

Assay 1.0 + 1.2 % (p/v) Description Blue liquid Density at 20° C 0.809 + 0.815 g/ml

Code	Size	Packaging
429031	ml 250	Bottle

Saturated alcoholic solution

**Methylene Blue solution 1% in water***Blu metilene soluzione 1% in acqua - Bleu de méthylène en solution à 1% dans l'eau - Azul de metileno solución 1% en agua*

**C<sub>16</sub>H<sub>18</sub>Na<sub>3</sub>SCl<sub>5</sub>H<sub>2</sub>O**  
 Atomic weight: 373,900  
 CAS N: 61-73-4  
 EEC N: 200-515-2

**Methylene Blue solution 1% in water - Analytical Grade****RPE-For analysis**

Assay (oxidimetric) 0.9 + 1.1 % Description Blue liquid Density at 20° C ~ 1.00 g/ml

Code	Size	Packaging
429011	ml 500	Bottle

**Methylene iodide***Metilene ioduro - Méthylène iodure - Metileno yoduro*

**CH<sub>2</sub>I<sub>2</sub>**  
 Atomic weight: 267,87  
 CAS N: 75-11-6  
 EEC N: 200-841-5



R: 20/21/22-36/37/38  
 S: 23-24/25

**Methylene iodide - Analytical Grade****RPE-For analysis**

Assay (GLC)  $\geq 98\%$  Description Yellow clear liquid Density at 20° C 3.31 + 3.33  
 Water (K.F.)  $\leq 200$  ppm Residue on evaporation  $\leq 100$  ppm Acidity (Hydrogen iodide)  $\leq 0.1\%$

Code	Size	Packaging
463052	ml 25	Glass bottle
463057	ml 250	Glass bottle

## Methylmercury chloride

Metilmercurio cloruro - Méthylmercure chlorure - Metilmercurio cloruro

**CH<sub>3</sub>HgCl**  
Atomic weight: 251,101  
CAS N: 115-09-3  
EEC N: 204-064-2

**Transport classification**  
ONU n. 2025  
Transport class: 6.1  
Packaging group: II

   
R: 26/27/28-33-50/53  
S: 13-28-36-45-60-61

## Methylmercury chloride - Analytical Grade

## RPE-For analysis



**Assay 98 + 100 % s s** Description Scagliet lucenti bianche Acidity Conform  
Hg salts-heavy metals Conform Loss on drying <=3 %

Code	Size	Packaging
462591	g 10	Glass jar

For further information on above products, see following product/application section(s)  
Special products for environmental analysis (p. 81)

## N-Methylmorpholine

N-Metilmorfolina - N-Methylmorpholine - N-Metilmorfolina

**CH<sub>3</sub>N(CH<sub>2</sub>)<sub>2</sub>OCH<sub>2</sub>CH<sub>2</sub>**  
Atomic weight: 101,12  
CAS N: 109-02-4  
EEC N: 203-640-0

**Transport classification**  
ONU n. 2535  
Transport class: 3  
Secondary risk: 8  
Packaging group: II

   
R: 11-20/21/22  
S: 26-28

## N-Methylmorpholine - Analytical Grade

## RPE-For analysis



**Assay (GLC) >=99 %** Description Clear colourless liquid Density at 20° C 0.918 + 0.922  
Refractive index at 20° 1.4302 + 1.4362 Boiling point 114.8 + 116.3 °C Residue on evaporation <=500 ppm

Code	Size	Packaging
462731	ml 250	Glass bottle

## 2-Methyltetrahydrofuran

2-Metiltetraidrofurano - 2-Méthyltétrahydrofurane - 2-Metiltetrahydrofurano

**C<sub>5</sub>H<sub>10</sub>O**  
Atomic weight: 86,140  
CAS N: 96-47-9  
EEC N: 202-507-4

**Transport classification**  
ONU n. 2536  
Transport class: 3  
Packaging group: II

  
R: 11,19  
S: 16-29-33

## 2-Methyltetrahydrofuran - Special Grade

## RS-For HPLC-Isocratic Grade



**Assay (GC) >= 99.5 %** Refractive index at 20°C 1.404 - 1.408 Water content (K.F.) <= 200 mg/Kg  
Non volatile residue <= 5 mg/Kg Colour <= 10 Hazen Peroxides (as H<sub>2</sub>O<sub>2</sub>) <= 300 mg/Kg  
UV transmittance at 240 nm >= 30 % UV transmittance at 250 nm >= 50 % UV transmittance at 260 nm >= 70 %  
UV transmittance at 280 nm >= 90 % UV transmittance from 310 nm >= 98 %

Code	Size	Packaging
P9963716	ml 1000	Glass bottle
P9963721	ml 2500	Glass bottle

For further information on above products, see following product/application section(s)  
Chromatography (p. 34)  
Green solvents (p. 45)

## 2-Methyltetrahydrofuran - Technical Grade

## PS-Pure-for synthesis



**Assay (GC) >= 99 %** Refractive index at 20°C 1.404 - 1.408 Water content (K.F.) <= 300 mg/Kg  
Stabilizer (ionol) 150 - 400 mg/Kg Peroxides (as H<sub>2</sub>O<sub>2</sub>) <= 100 mg/Kg

Code	Size	Packaging
P9960216	ml 1000	Glass bottle
P9960229	ml 5000	Plastic drum
P9960248	l 25	Metal drum
P9960268	l 200	Metal drum

For further information on above products, see following product/application section(s)  
Green solvents (p. 45)

## Methylthymol blue sodium salt

Blu metiltimolo sale sodico - Bleu de méthylthymol sel de sodium - Azul de metiltimol sal sódica

**C<sub>27</sub>H<sub>44</sub>N<sub>2</sub>O<sub>13</sub>S**  
Atomic weight: 844,740  
CAS N: 1945-77-3  
EEC N: 217-743-3

  
R: 36/37/38  
S: 22-24/25

## Methylthymol blue sodium salt - Analytical Grade

## Methylthymol blue sodium salt - Analytical Grade

## RPE-For analysis



Description Greenish brown powder

Code	Size	Packaging
429021	g 1	Glass bottle

Complexometry indicator

For further information on above products, see following product/application section(s)  
Indicators (p. 50)

## Methyltricaprylammonium chloride

Metiltricaprilammonio cloruro - Méthytricaprylammonium chlorure - Metiltricaprilammonio cloruro

**Chemical Formula:**  $C_{25}H_{51}NCl$   
 Atomic weight: 404,170  
 CAS N: 5137-55-3  
 EEC N: 225-896-2

**Transport classification**  
 ONU n. 2810  
 Transport class: 6.1  
 Packaging group: III



R: 22-36/38

## Methyltricaprylammonium chloride - Technical Grade

## RE-Pure



Description Clear yellow liquid Density at 20° C - 0.880

Code	Size	Packaging
462892	ml 250	Glass bottle

## Methyltrichlorosilane

Metiltrichlorosilano - Méthytrichlorosilane - Metiltrichlorosilano

**Chemical Formula:**  $CH_3SiCl_2CH_2Cl_2Si$   
 Atomic weight: 149,48  
 CAS N: 75-79-6  
 EEC N: 200-902-6

**Transport classification**  
 ONU n. 1250  
 Transport class: 3  
 Transport class: 3+8  
 Secondary risk: 8  
 Packaging group: I

R: 11-14-36/37/38  
S: 26-39

## Methyltrichlorosilane - Analytical Grade

## RPE-For analysis



Assay (GLC)  $\geq 97\%$  Description Liquido di colore da bianco a giallo paglierino Peso specifico a 25° C/15.6°C 1.265 ± 1.273  
 Idrocarburi (IR)  $\leq 1\%$  -Dimetildiclorosilano % -Trimetildiclorosilano %

Code	Size	Packaging
462964	ml 250	Glass bottle
462968	ml 2500	Glass bottle

Derivatizer for chromatography

For further information on above products, see following product/application section(s)  
Chromatography (p. 34)

## Methylurea

Metilurea - Méthylurée - Metilurea

**Chemical Formula:**  $CH_3NHCONH_2$   
 Atomic weight: 74,083  
 CAS N: 598-50-5  
 EEC N: 209-935-0



R: 22

## Methylurea - Analytical Grade

## RPE-For analysis



Assay (ex nitrogen) 99 + 100 % Description White crystalline powder Melting point 101 + 103 ° C  
 Ammonium  $\leq 100$  ppm Biuret  $\leq 500$  ppm Chloride  $\leq 10$  ppm  
 Water-insoluble matter  $\leq 100$  ppm Heavy metals (Pb)  $\leq 40$  ppm Residue on ignition  $\leq 200$  ppm  
 Total sulphur  $\leq 30$  ppm Fe  $\leq 10$  ppm

Code	Size	Packaging
463093	g 50	Glass jar

## Meyer reagent phenophtalein

Meyer reattivo Fenofaleina - Phénophtaléine selon Meyer - Meyer reattivo Fenofaleina

**Transport classification**  
 ONU n. 3266  
 Transport class: 8,47°B

R: 35  
S: 26-37/39

## Meyer reagent phenophtalein - Special Grade

## RS-For microscopy



Code	Size	Packaging
454232	ml 250	Glass bottle

For further information on above products, see following product/application section(s)  
Microscopy (p. 58)

## Millon reagent

Millon reattivo per l'albumina - Réactif pour l'albumine selon Million - Millon reactivo

Transport classification  
ONU n. 3289  
Transport class: 6.1, 67°B



R: 26-27-28-33  
S: 28-36-44

## Millon reagent - Special Grade

## RS-For microscopy



Code	Size	Packaging
454242	ml 100	Glass bottle

For further information on above products, see following product/application section(s)  
Microscopy (p. 58)

## Mixture C.H.M.

Miscela C.H.M. - Mélange CHM - Mezcla C.H.M.

Transport classification  
ONU n. 1992  
Transport class: 3  
Secondary risk: 6.1  
Packaging group: II



R: 11-38-40-48/20/22-50/53-65  
S: 16-29-36/37-60-61-62

## Mixture C.H.M. - Analytical Grade

## RPE-For analysis



Description Clear colourless liquid      Colour <= 10 APHA      Density at 20°C 1.070 ± 1.080  
Assay (CPG) Conform

Code	Size	Packaging
524411	ml 2500	Glass bottle

Composition: chloroform stab. with amylene 49%(v/v) n-heptane: 49%(v/v) methanol: 2%(v/v)

For further information on above products, see following product/application section(s)  
Agriculture and food sector analyses (p. 25)

## Mixture for checking solderings

Transport classification  
ONU n. 1993  
Transport class: 3  
Packaging group: II



R: 11-36-67  
S: 7-16-24/25-26

## Mixture for checking solderings - Special Grade

## RS-For checking packaging solderings



Description Clear purple liquid      Density at 20°C 0.788 ± 0.798

Code	Size	Packaging
502671	ml 5000	Plastic drum

For further information on above products, see following product/application section(s)  
Agriculture and food sector analyses (p. 25)

## Mixture o-phenol/dichlorobenzene

Miscela o-fenolo/diclorobenzene - Mélange o-phénol/dichlorobenzène - Mezcla o-fenol/diclorobenceno

Transport classification  
ONU n. 2810  
Transport class: 6.1  
Packaging group: II



R: 24/25-34  
S: 28-45

## Mixture o-phenol/dichlorobenzene - Analytical Grade

## RPE-For analysis



Description Yellow colourless liquid      Density at 20°C 1.16 ± 1.17      Phenol 48 ± 52 %  
o-Dichlorobenzene 48 ± 52 %

Code	Size	Packaging
463411	ml 2500	Glass bottle

## Molecular sieves 3 Å

Setacci molecolari 3 Å - Tamis moléculaire 3 Å - Tamices moleculares 3 Å

## Molecular sieves 3 Å - Special Grade

## RS-Pellets 1/16"



Code	Size	Packaging
P1810017	g 1000	Plastic jar

For further information on above products, see following product/application section(s)  
Molecular sieves (p. 64)

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
M  
N  
O  
P  
Q  
R  
S  
T  
U  
V  
W  
X  
Y  
Z**Molecular sieves 3 Å - Special Grade****RS-Pellets 1/16"**

Description Beige granules Apparent density 700 ± 800 g/l

Code	Size	Packaging
477731	g 250	Glass jar

For further information on above products, see following product/application section(s)  
Molecular sieves (p. 64)**RS-Pellets 1/8"**

Description Pellets

Code	Size	Packaging
477721	g 250	Glass jar

For further information on above products, see following product/application section(s)  
Molecular sieves (p. 64)**RS-Powder**

Description Powder 0.5-5µm

Code	Size	Packaging
477711		

**Molecular sieves 4 Å**

Setacci molecolari 4 Å - Tamis moléculaire 4 Å - Tamices moleculares 4 Å

**Molecular sieves 4 Å - Special Grade****RS-Pellets 1/16"**

Code	Size	Packaging
P1820017	g 1000	Plastic jar
P1820027	g 5000	Metal bucket

For further information on above products, see following product/application section(s)  
Molecular sieves (p. 64)**RS-Pellets 1/16"**

Description Sferette 1/16"

Code	Size	Packaging
477791	g 250	Glass jar

For further information on above products, see following product/application section(s)  
Molecular sieves (p. 64)**Molecular sieves 13 X**

Setacci molecolari 13 X - Tamis moléculaire 13 X - Tamices moleculares 13 X

**Molecular sieves 13 X - Special Grade****RS-Pellets 1/16"**

Description Cilindretti grigiastri

Code	Size	Packaging
477861	g 250	Glass jar

For further information on above products, see following product/application section(s)  
Molecular sieves (p. 64)**RS-Pellets 1/8"**

Description Pellets

Code	Size	Packaging
477841	g 250	Glass jar

For further information on above products, see following product/application section(s)  
Molecular sieves (p. 64)**RS-Powder**

Description Powder

Code	Size	Packaging
477831	g 250	Glass jar

For further information on above products, see following product/application section(s)  
Molecular sieves (p. 64)**Molecular sieves AW 500**

Setacci molecolari AW 500 - Tamis moléculaire AW 500 - Tamices moleculares AW 500

**Molecular sieves AW 500 - Special Grade**



## Molecular sieves AW 500 - Special Grade

## RS-Pellets 1/16"



Description Sferette 1/16"

Code	Size	Packaging
477881	g 250	Glass jar

For further information on above products, see following product/application section(s)  
Molecular sieves (p. 64)

## Molecular sieves 3 Å deuterated

Setacci molecolari 3 A deuterati - Tamis moléculaire 3 Å deutéré - Tamices moleculares 3 A deuterado

## Molecular sieves 3 Å deuterated - Special Grade

## RS-Deuterated molecular sieves



Code	Size	Packaging
P557X	g 5	Glass bottle

For further information on above products, see following product/application section(s)  
NMR Spectroscopy (p. 65)

## Molybdenum

Molibdèno - Molybdène - Molybdene



R: 36/37/38  
S: 26

## Molybdenum - Special Grade

## RS-NORMEX-concentrated solution for AAS



Description Clear colourless liquid Titration factor 0.995 + 1.005

Code	Size	Packaging	Notes
463431	Ampoule	Plastic vial	conc. 1.000 ppm

Concentrated volumetric solution to prepare 1 l of solution 1 mg/ml

For further information on above products, see following product/application section(s)  
Trace metal analysis (p. 86)

## RS-Standard solution for AAS



Description Clear colourless liquid Titration factor 0.998 + 1.002

Code	Size	Packaging	Notes
497565	ml 100	Glass bottle	conc. 1.000 ppm
497561	ml 500	Plastic bottle	conc. 1.000 ppm

Ready-to-use solution: concentration 1 mg/ml

## RS-Standard solution for ICP



Code	Size	Packaging	Notes
503731	ml 100	Plastic bottle	Matrice: Ammonium hydroxide, conc. 1.000 ppm
503735	ml 100	Plastic bottle	Matrice: Ammonium hydroxide, conc. 10.000 ppm
503733	ml 500	Plastic bottle	Matrice: Ammonium hydroxide, conc. 1.000 ppm
503737	ml 500	Plastic bottle	Matrice: Ammonium hydroxide, conc. 10.000 ppm

Provided with real batch certificate. Verified against NIST Standard Reference

For further information on above products, see following product/application section(s)  
Trace metal analysis (p. 86)

## RS-Standard solution for ICP-MS



Code	Size	Packaging	Notes
505721	ml 50	Plastic bottle	Matrice: Nitric acid and hydrofluoric acid, conc. 10 ppm
505722	ml 100	Plastic bottle	Matrice: Nitric acid and hydrofluoric acid, conc. 10 ppm
505725	ml 100	Plastic bottle	Matrice: Nitric acid and hydrofluoric acid, conc. 100 ppm

For further information on above products, see following product/application section(s)  
Trace metal analysis (p. 86)

## Molybdenum (VI) oxide

Anidride molibdica - Anhydride molybdique - Anhidrido molibdico

MoO<sub>3</sub>  
Atomic weight: 143,94  
CAS N: 1313-27-5  
EEC N: 215-204-7

Transport classification  
ONU n. 3288  
Transport class: 6.1  
Packaging group: III



R: 36/37-48/20/22  
S: 22-25

## Molybdenum (VI) oxide - Analytical Grade

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
M  
N  
O  
P  
Q  
R  
S  
T  
U  
V  
W  
X  
Y  
Z**Molybdenum (VI) oxide - Analytical Grade****RPE-ACS-for analysis**

Assay (oxidimetric) >=99.5 %	Description White-green powder	NH4OH-Insoluble subst. <=100 ppm
Ammonium <=20 ppm	Arsen.Phosph.Sil.(SiO2) <=10 ppm	Chloride <=20 ppm
Phosphate <=5 ppm	Nitrate <=30 ppm	Sulphate <=200 ppm
Heavy metals (Pb) <=50 ppm		

Code	Size	Packaging
422004	g 100	Glass jar
422005	g 250	Glass jar

**Morin**

Morina - Morine - Morina

 $C_{16}H_{10}O_7 \cdot 5H_2O$ 

Atomic weight: 338,27

CAS N: 6472-38-4

EEC N: 207-542-9

**Morin - Analytical Grade****RPE-For analysis-C.I. 75660**

Description Brown powder	Residue on ignition <= 1 %	Alluminium sensitivity ~ 1 µg/ml
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Code	Size	Packaging
463508	g 5	Glass jar

Reagent for the analysis of Al

For further information on above products, see following product/application section(s)

Indicators (p. 50)

**Morpholine**

Morfolina - Morpholine - Morfolina

 $NH(CH_2)_2OCH_2CH_2$ 

Atomic weight: 87,122

CAS N: 110-91-8

EEC N: 203-815-1

Transport classification

ONU n. 2054

Transport class: 8

Secondary risk: -3

Packaging group: I



R: 10-20/21/22-34

S: 23-36-45

Synonimes

Tétrahydro-1,4-oxazine

**Morpholine - Analytical Grade****RPE-ACS-for analysis-Reag. Ph.Eur.-Reag. USP**

Assay (acidimetric) >= 99.0 %	Description Clear liquid	Colour (APHA) <= 10
Boiling point 126.0 ± 130.0 °C	Density at 20°C ~ 1.01	

Code	Size	Packaging
463451	ml 100	Glass bottle
463453	ml 1000	Glass bottle

**Mucicarmin hydroalcoholic solution**

Mucicarminio soluzione idroalcolica - Mucicarmin en solution hydroalcoolique - Mucicarmin solución hidroalcohólica

Transport classification

ONU n. 1993

Transport class: 3

Packaging group: III

R: 10

**Mucicarmin hydroalcoholic solution - Special Grade****RS-For microscopy**

Description Red clear liquid

Code	Size	Packaging
463531	ml 100	Glass bottle

Stain for Microscopy. Mixture ethanol-water (50:50).

For further information on above products, see following product/application section(s)

Microscopy (p. 58)

**Multianions standard for ion chromatography**

Transport classification

ONU n. 3264

Transport class: 8

Packaging group: II

R: 34

S: 23-26-36-45

**Multianions standard for ion chromatography - Special Grade****RS-Quality control standard solution for ion chromatography**

Code	Size	Packaging
504527	ml 100	Plastic bottle

**RS-Standard solution for ion chromatography-EPA method**

Code	Size	Packaging
504526	ml 100	Plastic bottle

## Multielement standard detection limit for ICP-MS

Transport classification

ONU n. 3264

Transport class: 8

Packaging group: II

R: 34

S: 23-26-36-45

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
M  
N  
O  
P  
Q  
R  
S  
T  
U  
V  
W  
X  
Y  
Z

### Multielement standard detection limit for ICP-MS - Special Grade

#### RS-Detection limit verification solution for ICP-MS



Code	Size	Packaging
504397	ml 250	Plastic bottle

## Multielement standard for ICP

Standard multielemento per ICP - Etalon multiéléments pour ICP - Patrón multielementos para ICP

Transport classification

ONU n. 3264

Transport class: 8

Packaging group: II



R: R36/37/38

S: S26-37

### Multielement standard for ICP - Special Grade

#### RS-Calibrating solution for ICP



Code	Size	Packaging	Notes
504306	ml 100	Bottle	Matrice: Nitric acid, conc. 100 ppm for each analyte
504308	ml 100	Bottle	Matrice: Nitric acid, conc. 100 ppm for each analyte
504310	ml 100	Bottle	Matrice: Nitric acid and hydrofluoric acid, conc. 100 ppm for each analyte
504312	ml 100	Bottle	Matrice: Hydrochloric acid, conc. 100 ppm for each analyte
504314	ml 100	Bottle	Matrice: Nitric acid and hydrofluoric acid, conc. 100 ppm for each analyte
504307	ml 500	Bottle	Matrice: Nitric acid, conc. 100 ppm for each analyte
504309	ml 500	Bottle	Matrice: Nitric acid, conc. 100 ppm for each analyte
504311	ml 500	Bottle	Matrice: Nitric acid and hydrofluoric acid, conc. 100 ppm for each analyte
504313	ml 500	Bottle	Matrice: Hydrochloric acid, conc. 100 ppm for each analyte
504315	ml 500	Bottle	Matrice: Nitric acid and hydrofluoric acid, conc. 100 ppm for each analyte

For further information on above products, see following product/application section(s)

Trace metal analysis (p. 86)

#### RS-Optimisation solution



Code	Size	Packaging
504396	ml 500	Plastic bottle

#### RS-Quality control standard solution for ICP, ICP-MS



Code	Size	Packaging	Notes
504350	ml 100	Plastic bottle	Matrice: Nitric acid, conc. 1 ppm
504354	ml 100	Plastic bottle	Matrice: Nitric acid and hydrofluoric acid, conc. 1 ppm
504356	ml 100	Plastic bottle	Matrice: Nitric acid and hydrofluoric acid, conc. 1 ppm
504351	ml 500	Plastic bottle	Matrice: Nitric acid, conc. 1 ppm
504353	ml 500	Plastic bottle	Matrice: Nitric acid, conc. 1 ppm
504355	ml 500	Plastic bottle	Matrice: Nitric acid and hydrofluoric acid, conc. 1 ppm
504357	ml 500	Plastic bottle	Matrice: Nitric acid and hydrofluoric acid, conc. 1 ppm

For further information on above products, see following product/application section(s)

Trace metal analysis (p. 86)

#### RS-Standard solution for ICP



Code	Size	Packaging	Notes
504301	ml 100	Plastic bottle	Matrice: Hydrochloric acid, conc. 100 ppm for each analyte
504303	ml 100	Plastic bottle	Matrice: Nitric acid, conc. 100 ppm for each analyte
504305	ml 100	Plastic bottle	Matrice: Nitric acid, conc. 100 ppm for each analyte

For further information on above products, see following product/application section(s)

Trace metal analysis (p. 86)

## Multielement standard for ICP and ICP-MS

Standard multielemento per ICP e ICP-MS - Etalon multiéléments pour ICP et ICP-MS - patrón multielementos para ICP e ICP-MS

### Multielement standard for ICP and ICP-MS - Special Grade

#### RS-Quality control standard solution for ICP, ICP-MS



Code	Size	Packaging	Notes
504352	ml 100	Plastic bottle	Matrice: Nitric acid, conc. 1 ppm

For further information on above products, see following product/application section(s)

Trace metal analysis (p. 86)

## Multielement standard ICP-MS for tuning

Standard multielemento di tuning per ICP-MS - Etalon multiéléments de Tuning pour ICP-MS - Patrón multielementos de Tuning para ICP-MS

### Transport classification

ONU n. 3264

Transport class: 8

Packaging group: II

R: 34

S: 23-26-36-45

## Multielement standard ICP-MS for tuning - Special Grade

### RS-Tuning solution for IC-MS



Code	Size	Packaging	Notes
504391	ml 100	Plastic bottle	5 elements 10 mg/l in 2% nitric acid
504392	ml 100	Plastic bottle	9 elements 10 mg/l in 2% nitric acid
504393	ml 100	Plastic bottle	13 elements 10 mg/l in 2% nitric acid

## Murexide

Muresside - Murexide - Murexida

$C_8H_6N_2O_6$

Atomic weight: 284,19

CAS N: 3051-09-0

EEC N: 221-266-6

Synonyms  
Ammonium purpurate

## Murexide - Analytical Grade

### RPE-For analysis-C.I. 56085



Description Red violet powder      Loss on drying <=10 %      Residue on ignition <=0.5 %

Code	Size	Packaging
463608	g 5	Glass jar

Complexometry indicator

For further information on above products, see following product/application section(s)

Indicators (p. 50)

## Myristic acid

Acido miristico - Acide myristique - Acido mirístico

$CH_3(CH_2)_{12}COOH$

Atomic weight: 228,36

CAS N: 544-63-8

EEC N: 208-875-2

## Myristic acid - Technical Grade

### RE-Pure



Assay (GLC) >=90 %      Description White flakes      Melting point 52.2 + 56.2 ° C

Residue on ignition <=100 ppm

Code	Size	Packaging
407615	g 250	Plastic jar

## Naphthalene

Naftalene - Naphtalène - Naftaleno

$C_{10}H_8$

Atomic weight: 128,17

CAS N: 91-20-3

EEC N: 202-049-5

### Transport classification

ONU n. 1334

Transport class: 4.1

Packaging group: III



R: 22-40-50/53

S: 36/37-46-60-61

## Naphthalene - Analytical Grade

### RPE-For analysis



Assay (GLC) >= 98.5 %      Description White flakes      Melting point 79 + 82 ° C

Code	Size	Packaging
463655	g 250	Plastic jar
463651	g 1000	Plastic jar

## Naphthalhydroxamic acid

Acido naftalidrossammico - Acide naphthalhydroxamique - Acido naftalhidroxámico

$C_{10}H_7(CO)_2NOH$

Atomic weight: 213,18

## Naphthalhydroxamic acid - Analytical Grade

### RPE-For analysis



Description White hazel powder      Residue on ignition <=200 ppm      Calcium sensitivity <=0.3 µg/ml

Code	Size	Packaging
407681	g 10	Glass jar

## Naphthionic acid

*Acido naftionico - Acide naphthionique - Acido naftiônico*

**1-NH<sub>2</sub>C<sub>10</sub>H<sub>6</sub>-4-SO<sub>3</sub>H**  
 Atomic weight: 223,25  
 CAS N: 84-86-6  
 EEC N: 201-567-9



R: 20/21/22

## Naphthionic acid - Analytical Grade

## RPE-For analysis



Assay (acidimetric) 98 + 100 % Description White powder Residue on ignition <=500 ppm  
 Nitrite sensitivity <=10 µg/ml

Code	Size	Packaging
407712	g 25	Glass jar

For further information on above products, see following product/application section(s)  
 Indicators (p. 50)

## 1-Naphthol

*1-Naftolo - a-Naphtol - 1-Naftol*

**C<sub>10</sub>H<sub>7</sub>OH**  
 Atomic weight: 144,17  
 CAS N: 90-15-3  
 EEC N: 201-969-4

R: 21/22-37/38-41  
S: 22-26-37/39

## 1-Naphthol - Analytical Grade

## RPE-For analysis



Assay (GLC) >= 97.5 % Description Grey-brown flakes Melting point 94 + 98 °C

Code	Size	Packaging
463935	g 250	Plastic jar

## 1-Naphthol - Technical Grade

## RE-Pure



Assay (GLC) >= 98 % Description White pinkish crystals Melting point 94 + 98 °C  
 ð-Naphthole <=1 %

Code	Size	Packaging
354751	g 250	Plastic jar

## 2-Naphthol

*2-Naftolo - b-Naphtol - b-Naftol*

**C<sub>10</sub>H<sub>7</sub>OH**  
 Atomic weight: 144,17  
 CAS N: 135-19-3  
 EEC N: 205-182-7

Transport classification  
 ONU n. 3077  
 Transport class: 9  
 Packaging group: III

R: 20/22-50  
S: 24/25-61

## 2-Naphthol - Analytical Grade

## RPE-For analysis-C.I. 37500



Assay (GLC) >= 99.0 % Description Pinky crystals Melting point 121 + 123 °C

Code	Size	Packaging
463984	g 100	Plastic jar
463986	g 500	Plastic jar

## 2-Naphthol-3,6-disulphonic acid disodium salt

*Acido 2-naftolo-3,6-disolfonico sale bisodico - Acide 2-naphtol-3,6-disulfonique sel disodique - Acido 2-naftol-3,6-disulfónico sal disódica*

**HOOC<sub>2</sub>H<sub>6</sub>(SO<sub>3</sub>Na)<sub>2</sub>**  
 Atomic weight: 348,26  
 CAS N: 135-51-3  
 EEC N: 205-196-3

## 2-Naphthol-3,6-disulphonic acid disodium salt - Analytical Grade

## RPE-For analysis



Description White powder Nitrite sensitivity >=1,5 mg/ml

Code	Size	Packaging
407862	g 25	Glass jar

For further information on above products, see following product/application section(s)  
 Indicators (p. 50)

## Naphthol yellow S

*Giallo naftolo S - Jaune naphtol S - Amarillo naftol S*

**C<sub>10</sub>H<sub>6</sub>N<sub>2</sub>Na<sub>2</sub>O<sub>6</sub>S**  
 Atomic weight: 358,19  
 CAS N: 846-70-8  
 EEC N: 212-690-2

Transport classification  
 ONU n. 3143  
 Transport class: 6.1  
 Packaging group: III



R: 20/21/22

## Naphthol yellow S - Special Grade

## RS-For microscopy-C.I. 10316



Description Pv xx.na giallo arancio

Code	Size	Packaging
453562	g 25	Glass jar

Stain for Histology.

For further information on above products, see following product/application section(s)

Microscopy (p. 58)

 $\alpha$ -Naphtholbenzein*alfa-Naftolbenzeina - alpha-Naphtolbenzéine - alpha-Naftolbenzeina***C<sub>21</sub>H<sub>16</sub>O<sub>2</sub>**

Atomic weight: 374,44

CAS N: 145-50-6

EEC N: 230-116-9

 $\alpha$ -Naphtholbenzein - Analytical Grade

## RPE-For analysis

Description Red brown powder Suitability for anhydrous titration Conform

Code	Size	Packaging
463891	g 5	Glass jar

Indicator (pH 0,0+0,8-8,2+10,0).

For further information on above products, see following product/application section(s)

Indicators (p. 50)

## Naphthoresorcinol

*Naftoresorcina - Naphtoresorcine - Naftoresorcina***C<sub>10</sub>H<sub>6</sub>(OH)<sub>2</sub>**

Atomic weight: 160,18

CAS N: 132-86-5

EEC N: 205-079-7

## Naphthoresorcinol - Analytical Grade



## RPE-For analysis

Assay (acidimetric)  $\geq 99.0\%$  Description Orange-brown crystalline powder Melting point 123 + 126 ° C

Code	Size	Packaging
464101	g 1	Glass bottle

## N-1-Naphtylethylenediamine dihydrochloride

*N-(1-Naftil)etilendiammina dicloridrato - n-(1-Naphtyl)éthylènediamine dichlorhydraté - N-(1-Naftil)etilendiammina diclorhidrato***C<sub>10</sub>H<sub>12</sub>NHCH<sub>2</sub>CH<sub>2</sub>NH<sub>2</sub>·5HCl·CH<sub>3</sub>OH**

Atomic weight: 291,22

CAS N: 1465-25-4

EEC N: 215-981-2



R: 20/21/22

## N-1-Naphtylethylenediamine dihydrochloride - Analytical Grade



## RPE-For analysis

Assay (non-aqueous medium)  $\geq 98\%$  (s.s.) Description Whitish powder Water  $\leq 5\%$ 

Code	Size	Packaging
463831	g 10	Glass jar

For the analysis of sulphamides into the blood

## NDF Solution

*Soluzione NDF - Solution NDF - Solución NDF*

Transport classification

ONU n. 2810

Transport class: 6.1

Packaging group: III



R: 60-61

S: 53-45

## NDF Solution - Analytical Grade



## RPE-For analysis

Description Clear liquid Density at 20°C 1.010 + 1.025 pH at 20°C 6.10 + 7.10

Code	Size	Packaging
526920	ml 2500	Glass bottle
526921	l 25	Plastic drum

Composition: Sodium laurylsulphate: 30 g; EDTA: 18,61 g; Sodium borate: 6,81 g; Disodium hydrogen phosphate anhydrous: 4,56 g; 2-Ethoxyethanol: 10 ml; Water: QSP 1 l

For further information on above products, see following product/application section(s)

Agriculture and food sector analyses (p. 25)

## Neocuproine

Neocuproina - Néocuproïne - Neocuproina

 $C_{14}H_{12}N_2 \cdot H_2O$ 

Atomic weight: 217,27

CAS N: 484-11-7

EEC N: 207-601-9



R: 36/37/38

S: 22-24/25

## Neocuproine - Analytical Grade

## RPE-For analysis

Assay (non-aqueous medium)  $\geq 99\%$ 

Description White powder

Melting point  $158.5 \pm 161.5$  °CResidue on ignition  $\leq 0.1\%$ Copper sensitivity  $\leq 0.3$  µg/ml

Code	Size	Packaging
444871	g 1	Glass bottle

## Neocuproine hydrochloride

Neocuproina cloridrato - Néocuproïne chlorhydraté - Neocuproina clorhidrato

 $C_{14}H_{12}N_2 \cdot HCl \cdot nH_2O$ 

CAS N: 7296-20-0

EEC N: 230732-8



R: 36/37/38

S: 22-24/25

## Neocuproine hydrochloride - Analytical Grade

## RPE-For analysis

Assay (non-aqueous medium)  $\geq 99\%$  s s

Description Yellowish powder

Copper sensitivity  $\geq 0.3$  µg/ml

Code	Size	Packaging
444731	g 1	Glass bottle

## Neodymium

Neodimio - Néodyme - Neodimio

Transport classification  
ONU n. 3264

R: 34

S: 26-36/37/39-45

## Neodymium - Special Grade

## RS-Standard solution for ICP



Code	Size	Packaging	Notes
503761	ml 100	Plastic bottle	Matrice: Nitric acid, conc. 1.000 ppm
503765	ml 100	Plastic bottle	Matrice: Nitric acid, conc. 10.000 ppm
503763	ml 500	Plastic bottle	Matrice: Nitric acid, conc. 1.000 ppm
503767	ml 500	Plastic bottle	Matrice: Nitric acid, conc. 10.000 ppm

Provided with real batch certificate. Verified against NIST Standard Reference

For further information on above products, see following product/application section(s)

Trace metal analysis (p. 86)

## RS-Standard solution for ICP-MS



Code	Size	Packaging	Notes
505741	ml 50	Plastic bottle	Matrice: Nitric acid, conc. 10 ppm
505742	ml 100	Plastic bottle	Matrice: Nitric acid, conc. 10 ppm
505745	ml 100	Plastic bottle	Matrice: Nitric acid, conc. 100 ppm

For further information on above products, see following product/application section(s)

Trace metal analysis (p. 86)

## Neothorin

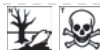
Neotorin - Néothorine - Neotorin

 $C_{16}H_{11}AsN_3Na_2O_7S_2$ 

Atomic weight: 646,340

CAS N: 3547-38-4

EEC N: 222-600-3



R: 23/25

S: 20/21-28-45

## Neothorin - Analytical Grade

## RPE-For analysis



Description P.v-gran bruno violacei

Thorium sensitivity Conform

Uranium sensitivity Conform

Sens.as complex.indicat Conform

Code	Size	Packaging
464151	g 1	Glass bottle

Reagent for the spectrophotometric analysis of Al, Be, Ca, Th, U, V(IV).

## Nessler's reagent single solution

Nessler reattivo soluzione unica - Réactif de Nessler solution - Nessler reactivo solución única

Transport classification  
ONU n. 1719  
Transport class: 8  
Packaging group: II

  
R: 25-35-48/21/22-52/53  
S: 26-45-36/37-61

### Nessler's reagent single solution - Analytical Grade

#### RPE-For analysis



Description Yellow clear liquid      Sensibilità all'azoto Conform

Code	Size	Packaging
464231	ml 500	Plastic bottle
464232	ml 1000	Plastic bottle

For the analysis of ammonia and ammonium salts.

## Nessler's reagent solution A

Nessler reattivo soluzione A - Réactif de Nessler solution A - Nessler reactivo solución A

Transport classification  
ONU n. 3287  
Transport class: 6.1  
Packaging group: III

  
R: 26/27/28-33-51/53  
S: 26-45-60

### Nessler's reagent solution A - Analytical Grade

#### RPE-For analysis



Description Yellow clear liquid      Density at 20° C >=1.2

Code	Size	Packaging
464422	ml 500	Glass bottle

For the analysis of N

## Nessler's reagent solution B

Nessler reattivo soluzione B - Réactif de Nessler solution B - Nessler reactivo solución B

CAS N: 1310-73-2  
EEC N: 215-185-5

Transport classification  
ONU n. 1824  
Transport class: 8  
Packaging group: II

  
R: 35  
S: 26-45

### Nessler's reagent solution B - Analytical Grade

#### RPE-For analysis



Assay 20.50 ± 21.50 % (NaOH)      Description Clear colourless liquid

Code	Size	Packaging
464432	ml 500	Plastic bottle

For the analysis of N

## Neutral red

Rosso neutro - Rouge neutre - Rojo neutro

**C<sub>18</sub>H<sub>17</sub>ClN<sub>4</sub>**  
Atomic weight: 288,78  
CAS N: 553-24-2  
EEC N: 209-035-8

  
R: 20/21/22

### Neutral red - Analytical Grade

#### RPE-For analysis-C.I. 50040



Description Green-brown powder      Loss on drying <= 5 %      Colour change red - yellow  
pH range 6.8 + 8.0

Code	Size	Packaging
476951	g 10	Glass jar

Stain for Microscopy (hystology-ematologia) Indicator (pH 6,8+8,0).

For further information on above products, see following product/application section(s)  
Indicators (p. 50)  
Microscopy (p. 58)

## Nickel powder

Nichel polvere - Nickel en poudre - Niquel en polvo

**Ni**  
Atomic weight: 58,69  
CAS N: 7440-02-0  
EEC N: 231-111-4

  
R: 40-43  
S: 22-36

### Nickel powder - Analytical Grade



## Nickel powder - Analytical Grade

## RPE-For analysis

Assay  $\geq 98\%$  Description Polvere metallica

Code	Size	Packaging
464384	g 100	Glass jar
464387	g 1000	Glass jar

## Nickel balls

Nichel sfera - Nickel en billes - Niquel en bolas

Ni  
Atomic weight: 58,69  
CAS N: 7440-02-0  
EEC N: 231-111-4



R: 40-43  
S: 36

## Nickel balls - Analytical Grade

## RPE-For analysis

Assay  $99.5 + 100.0\%$  Description Balls

Code	Size	Packaging
464405	g 250	Glass jar

## Nickel sheet

Nichel lamina - Nickel en lames - Niquel hojas

Ni  
Atomic weight: 58,69  
CAS N: 7440-02-0  
EEC N: 231-111-4



R: 40-43  
S: 36

## Nickel sheet - Analytical Grade

## RPE-For analysis

Assay  $99.5 + 100.0\%$  Description Sheet

Code	Size	Packaging	Notes
464344	g 100	Carton box	Width ~0,5 mm
464364	g 100	Carton box	Width ~1 mm

## Nickel wire

Nichel filo - Nickel en fils - Niquel hilo

Ni  
Atomic weight: 58,69  
CAS N: 7440-02-0  
EEC N: 231-111-4



R: 40-43  
S: 36

## Nickel wire - Analytical Grade

## RPE-For analysis

Assay  $\geq 99.5\%$  Description Metallic wire

Code	Size	Packaging
464304	g 100	Carton box

(Diameter ~mm 1).

## Nickel

Nichel - Nickel - Niquel

Ni

Transport classification  
ONU n. 3264  
Transport class: 8  
Packaging group: II  
Packaging group: III



R: 40-43-36/38  
S: 26-36/37/39-45

## Nickel - Special Grade

## RS-NORMEX-concentrated solution for AAS

Description Clear colourless liquid Titration factor  $0.995 + 1.005$ 

Code	Size	Packaging	Notes
464271	Ampoule	Plastic vial	conc. 1.000 ppm

Concentrated volumetric solution to prepare 1 l of solution 1 mg/ml

For further information on above products, see following product/application section(s)  
Trace metal analysis (p. 86)

## RS-Quality control standard solution for AAS (graphite furnace)



Code	Size	Packaging	Notes
504363	ml 50	Glass bottle	Matrice: Nitric acid 2%, conc. 0,030 mg/l

For further information on above products, see following product/application section(s)  
Trace metal analysis (p. 86)

Nickel - Special Grade

RS-Standard solution for AAS



Description Green clear liquid Titration factor 0.998 + 1.002

Code	Size	Packaging	Notes
497575	ml 100	Glass bottle	conc. 1.000 ppm
497571	ml 500	Plastic bottle	conc. 1.000 ppm

Ready-to-use solution: concentration 1 mg/ml

RS-Standard solution for ICP



Code	Size	Packaging	Notes
503771	ml 100	Plastic bottle	Matrice: Nitric acid, conc. 1.000 ppm
503775	ml 100	Plastic bottle	Matrice: Nitric acid, conc. 10.000 ppm
503773	ml 500	Plastic bottle	Matrice: Nitric acid, conc. 1.000 ppm
503777	ml 500	Plastic bottle	Matrice: Nitric acid, conc. 10.000 ppm

Provided with real batch certificate. Verified against NIST Standard Reference

For further information on above products, see following product/application section(s)  
Trace metal analysis (p. 86)

RS-Standard solution for ICP-MS




Code	Size	Packaging	Notes
505751	ml 50	Plastic bottle	Matrice: Nitric acid, conc. 10 ppm
505752	ml 100	Plastic bottle	Matrice: Nitric acid, conc. 10 ppm
505755	ml 100	Plastic bottle	Matrice: Nitric acid, conc. 100 ppm

For further information on above products, see following product/application section(s)  
Trace metal analysis (p. 86)

Nickel (II) acetate

Nichel acetato oso - Nickel acétate - Niquel (II) acetato

Ni(CH3COO)2.4H2O  
Atomic weight: 248,86  
CAS N: 6018-89-9  
EEC N: 206-761-7

  
R: 20/22-40-43  
S: 22-36/37

Nickel (II) acetate - Analytical Grade

RPE-For analysis



Assay 23 + 24 % (Ni)	Description Green powder	Co <= 0.2 %
Cr <= 5 ppm	Cu <= 10 ppm	Fe <= 20 ppm
Mn <= 20 ppm	Pb <= 5 ppm	Zn <= 10 ppm


Code	Size	Packaging
464474	g 100	Plastic jar
464476	g 500	Plastic jar

Low content of Co.

Nickel (II) ammonium sulphate

Nichel ammonio solfato oso - Nickel ammonium sulfate - Niquel (II) y amonio sulfato

Ni(NH4)2(SO4)2.6H2O  
Atomic weight: 395.00  
CAS N: 15699-18-0  
EEC N: 239-793-5

  
R: 22-40-42/43  
S: 22-36/37

Nickel (II) ammonium sulphate - Analytical Grade

RPE-For analysis



Assay (complexometric) 99 + 100 %	Description Green-blue crystalline powder	pH sol. 5% at 25° C 4.3 + 4.7
Chloride <= 10 ppm	Water-insoluble matter <= 30 ppm	Nitrate <= 100 ppm
Subst. not ppt. (NH4)2S <= 0.2 %	Ca <= 50 ppm	Cd <= 20 ppm
Co <= 10 ppm	Cu <= 10 ppm	Fe <= 10 ppm
K <= 200 ppm	Na <= 200 ppm	Pb <= 10 ppm
Zn <= 20 ppm		

Code	Size	Packaging
464545	g 250	Plastic jar
464547	g 1000	Plastic jar



Low content of Co.

Nickel (II) carbonate basic

Nichel (II) carbonato basico - Nickel carbonate basique - Niquel (II) carbonato básico

NiCO3.2Ni(OH)2.nH2O  
Atomic weight: 376.23  
CAS N: 39430-27-8  
EEC N: 235-715-9

Transport classification  
ONU n. 3077  
Transport class: 9  
Packaging group: III

   
R: 22-40-43-50/53  
S: 22-36/37-60-61

Nickel (II) carbonate basic - Analytical Grade

## Nickel (II) carbonate basic - Analytical Grade



## RPE-For analysis

Assay (complexometric) $\geq 45\%$ (Ni)	Description Green powder	Chloride $\leq 0.1\%$
Diluted HCl-ins. matter $\leq 500$ ppm	Co $\leq 0.1\%$	Cu $\leq 50$ ppm
Fe $\leq 100$ ppm	Pb $\leq 50$ ppm	Zn $\leq 50$ ppm

Code	Size	Packaging
464604	g 100	Plastic jar

Low content of Co.

## Nickel (II) chloride

Nichel cloruro oso - Nickel chlorure - Niquel (II) cloruro

NiCl<sub>2</sub>·6H<sub>2</sub>O

Atomic weight: 237,70

CAS N: 7791-20-0

EEC N: 231-743-0

Transport classification

ONU n. 3288

Transport class: 6.1

Packaging group: III



R: 25-40-42/43

S: 22-36/37-45

## Nickel (II) chloride - Analytical Grade



## RPE-For analysis

Assay (argentimetric) $\geq 98\%$	Description Green crystals	pH sol. 5% at 20°C 4 + 6
Mg $\leq 10$ ppm	Sulphate $\leq 50$ ppm	Ca $\leq 50$ ppm
Cd $\leq 10$ ppm	Co $\leq 20$ ppm	Cu $\leq 10$ ppm
Fe $\leq 20$ ppm	Na $\leq 50$ ppm	Pb $\leq 10$ ppm
Zn $\leq 10$ ppm		

Code	Size	Packaging
464644	g 100	Glass jar
464645	g 250	Plastic jar
464647	g 1000	Plastic jar

Low content of Co.

## Nickel (II) nitrate

Nichel nitrato oso - Nickel nitrate - Niquel (II) nitrato

Ni(NO<sub>3</sub>)<sub>2</sub>·6H<sub>2</sub>O

Atomic weight: 290,81

CAS N: 13478-00-7

EEC N: 236-068-5

Transport classification

ONU n. 2725

Transport class: 5.1

Packaging group: III



R: 8-22-40-42/43

S: 22-36/37

## Nickel (II) nitrate - Analytical Grade



## RPE-For analysis

Assay (complexometric) $\geq 98.5\%$	Description Green crystals	Water-insoluble matter $\leq 100$ ppm
Chloride $\leq 50$ ppm	Al $\leq 10$ ppm	As $\leq 5$ ppm
Ca $\leq 10$ ppm	Cd $\leq 1$ ppm	Co $\leq 0.5\%$
Cr $\leq 1$ ppm	Cu $\leq 10$ ppm	Fe $\leq 10$ ppm
Mg $\leq 10$ ppm	Mn $\leq 20$ ppm	Pb $\leq 1$ ppm
S $\leq 10$ ppm	Zn $\leq 10$ ppm	

Code	Size	Packaging
464685	g 250	Plastic jar
464686	g 1000	Plastic jar

Low content of Co.

## Nickel (II) nitrate 10 g/L solution

Nichel nitrato 10 g/l soluzione - Nickel nitrate 10 g/L - Niquel (II) nitrato solución 10 g/L

Ni(NO<sub>3</sub>)<sub>2</sub>·5H<sub>2</sub>O

Atomic weight: 290,810

CAS N: 13478-00-7

EEC N: 236-068-5

## Nickel (II) nitrate 10 g/L solution - Special Grade

## RS-Matrix modifiers for AAS-GTA



Code	Size	Packaging	Notes
503197	50 ml	Plastic bottle	Matrice: Nitric acid (HNO <sub>3</sub> ), conc. 10 g/l

For further information on above products, see following product/application section(s)  
Trace metal analysis (p. 86)

## Nickel (II) sulphate

Nichel solfato - Nickel sulfate - Niquel sulfato

NiSO<sub>4</sub>·6H<sub>2</sub>O

Atomic weight: 262,86

CAS N: 10101-97-0

EEC N: 232-104-9

Transport classification

ONU n. 3077

Transport class: 9

Packaging group: III



R: 22-40-42/43-50/53

S: 22-36/37-60-61

## Nickel (II) sulphate - Analytical Grade

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
M  
N  
O  
P  
Q  
R  
S  
T  
U  
V  
W  
X  
Y  
Z

**Nickel (II) sulphate - Analytical Grade**



**RPE-For analysis**

<b>Assay (complexometric) &gt;=99 %</b>	Description Green crystals	pH sol. 5% at 25° C 2.5 + 6.5
Total nitrogen <=20 ppm	Chloride <=10 ppm	Water-insoluble matter <=100 ppm
Subst. not ppt. (NH4)2S <=0.1 %	Ca <=400 ppm	Cd <=10 ppm
Co <=5 ppm	Cu <=10 ppm	Fe <=80 ppm
K <=500 ppm	Mn <=10 ppm	Na <=100 ppm
Pb <=10 ppm	Zn <=20 ppm	

Code	Size	Packaging
464775	g 250	Plastic jar
464777	g 1000	Plastic jar
464772	kg 25	Fibre drum

Low content of Co.

**Nickel (II) sulphate - Technical Grade**



**RE-Pure**

<b>Assay (complexometric) 98 + 100 %</b>	Description Green crystals	Water-insoluble matter <=0.1 %
Fe <=100 ppm		

Code	Size	Packaging
355757	g 1000	Plastic jar
355754	kg 50	Fibre drum

**Nicotinamide**

*Nicotinamide - Nicotinamide - Nicotinamida*

**C<sub>6</sub>H<sub>6</sub>ON<sub>2</sub>**  
 Atomic weight: 122,12  
 CAS N: 98-92-0  
 EEC N: 202-713-4

**Nicotinamide - Pharmaceutical Grade**



**RPH-According to pharmacopoeia: Ph.Eur.-USP-FU-Ph.Franc.-BP-DAB**

<b>Assay (non-aqueous medium) 99.0 + 101.0 % s.s.</b>	<b>Assay (HPLC) 98.5 + 101.5 % s.s.</b>	Description White crystalline powder
Appearance of solution Conform Ph.Eur.	Related substances Conform Ph.Eur.	Ready carbonizable substances Conform USP-NF
Organic volatile impurities Conform USP-NF	Melting point 128 + 131 ° C	pH solution 5% 6.0 + 7.5
Loss on drying <=0.5 %	Sulphated ash <=0.1 %	Heavy metals (Pb) <=30 ppm

Code	Size	Packaging
392304	g 100	Bottle
392307	g 1000	Bottle
392305	kg 50	Drum

**Nicotinic acid**

*Acido nicotinico - Acide nicotinique - Acido nicotínico*

**N:CHC(COOH):CHCH:CH**  
 Atomic weight: 123,11  
 CAS N: 59-67-6  
 EEC N: 200-441-0

**Nicotinic acid - Analytical Grade**



**RPE-For analysis**

<b>Assay (non-aqueous medium) 99.5 + 100.5 %</b>	Description White crystalline powder	Melting point 235.7 + 237.3 ° C
Chloride <=0.02 %	Heavy metals (Pb) <=20 ppm	Loss on drying <=1.0 %
Residue on ignition <=0.1 %	Sulphate <= 0.02 %	

Code	Size	Packaging
407914	g 100	Plastic jar

**Nigrosine**

*Nigrosina - Nigrosine - Nigrosina*

CAS N: 8005-03-6

Transport classification  
 Packaging group: III



R: 20/21/22  
 S: 7-9

**Nigrosine - Special Grade**



**RS-For microscopy-C.I. 50420**

Description black granules

Code	Size	Packaging
464853	g 50	Glass jar

For further information on above products, see following product/application section(s)  
 Microscopy (p. 58)

## Nile blue sulphate

Blu Nilo A - Bleu du Nil A - Azul Nilo A

C<sub>20</sub>H<sub>12</sub>Na<sub>2</sub>O<sub>6</sub>S

Atomic weight: 415,47

CAS N: 3625-57-8

EEC N: 222-832-5

## Transport classification

ONU n. 3143

Transport class: 6.1

Packaging group: III



R: 20/21/22

S: 22-24/25

## Nile blue sulphate - Analytical Grade

## RPE-For analysis-C.I. 51180



Description Dark green powder Suitability for anhydrous titration Conform Colour change blue red  
 pH range 10.2 - 13.0

Code	Size	Packaging
429042	g 25	Glass jar

Stain for Microscopy (bacteriology-hystology). Indicator (pH 10,2+13,0).

For further information on above products, see following product/application section(s)

Microscopy (p. 58)

## Ninhydrin

Ninidrina - Ninhydrine - Ninhidrina

C<sub>8</sub>H<sub>4</sub>CO<sub>3</sub>O

Atomic weight: 178,15

CAS N: 485-47-2

EEC N: 207-618-1



R: 20/21/22

S: 7-9

## Ninhydrin - Analytical Grade

## RPE-ACS-for analysis



Description Yellow powder Ident.and melting point Conform Aminoacids sensitivity Conform  
 Solubility Conform

Code	Size	Packaging
464928	g 5	Glass jar
464922	g 25	Jar
464921	g 250	Glass bottle

For further information on above products, see following product/application section(s)

Chromatography (p. 34)

## Niobium

Niobio - Niobium - Niobio

Nb

## Transport classification

ONU n. 3289



R: R20/21/22-36

S: S36/37-26

## Niobium - Special Grade

## RS-Standard solution for ICP



Code	Size	Packaging	Notes
503751	ml 100	Plastic bottle	Matrice: Nitric acid and hydrofluoric acid, conc. 1.000 ppm
503755	ml 100	Plastic bottle	Matrice: Nitric acid and hydrofluoric acid, conc. 10.000 ppm
503753	ml 500	Plastic bottle	Matrice: Nitric acid and hydrofluoric acid, conc. 1.000 ppm
503757	ml 500	Plastic bottle	Matrice: Nitric acid and hydrofluoric acid, conc. 10.000 ppm

Provided with real batch certificate. Verified against NIST Standard Reference

For further information on above products, see following product/application section(s)

Trace metal analysis (p. 86)

## RS-Standard solution for ICP-MS



Code	Size	Packaging	Notes
505736	ml 50	Plastic bottle	Matrice: Nitric acid and hydrofluoric acid, conc. 10 ppm
505737	ml 100	Plastic bottle	Matrice: Nitric acid and hydrofluoric acid, conc. 10 ppm
505738	ml 100	Plastic bottle	Matrice: Nitric acid and hydrofluoric acid, conc. 100 ppm

For further information on above products, see following product/application section(s)

Trace metal analysis (p. 86)

## Nitrate

Nitrati - Nitrate - Nitrato

## Nitrate - Special Grade

## RS-Standard solution for ion chromatography



Code	Size	Packaging	Notes
503330	ml 50	Plastic bottle	conc. 1.000 ppm
503331	ml 100	Plastic bottle	conc. 1.000 ppm
503332	ml 250	Plastic bottle	conc. 1.000 ppm
503333	ml 500	Plastic bottle	conc. 1.000 ppm

For further information on above products, see following product/application section(s)

Chromatography (p. 34)

## Nitric acid fuming 90%

Acido nitrico fumante 90% - Acide nitrique fumant 90% - Acido nítrico fumante 90%

**HNO<sub>3</sub>**Atomic weight: 63,013  
CAS N: 7697-37-2  
EEC N: 231-714-2**Transport classification**ONU n. 2031  
Transport class: 8  
Secondary risk: 5.1  
Packaging group: IR: 8-35  
S: 23-26-36-45

## Nitric acid fuming 90% - Analytical Grade

## RPE-For analysis



<b>Assay (acidimetric) 89 ± 92 %</b>	Description Clear colourless liquid	Density at 20° C 1.479 ± 1.485
Chloride ≤0.5 ppm	Phosphate ≤2 ppm	Heavy metals (Pb) ≤1 ppm
Residue on ignition ≤10 ppm	Sulphate ≤2 ppm	As ≤0.01 ppm
Cd ≤0.1 ppm	Cu ≤0.2 ppm	Fe ≤1 ppm
Mn ≤0.2 ppm	Ni ≤0.2 ppm	Pb ≤0.2 ppm
Zn ≤0.2 ppm		

Code	Size	Packaging
408133	ml 500	Glass bottle
408131	kg 30	Glass bottle

## Nitric acid 69.5%

Acido nitrico 69,5% - Acide nitrique 69,5% - Acido nítrico 69,5%

**HNO<sub>3</sub>**Atomic weight: 63,013  
CAS N: 7697-37-2  
EEC N: 231-714-2**Transport classification**ONU n. 2031  
Transport class: 8  
Transport class: 8.46  
Packaging group: IIR: 35  
S: 23-26-36-45

## Nitric acid 69.5% - Analytical Grade

## RPE-ACS-ISO-for analysis-Reag. Ph.Eur.-Reag. USP



<b>Assay (acidimetric) 69.1 ± 69.9 %</b>	Description Clear liquid	Colour (APHA) ≤10
Density at 20° C 1.408 ± 1.416	Chloride ≤0.1 ppm	Phosphate ≤0.5 ppm
Heavy metals (Pb) ≤0.2 ppm	Sulphated ash ≤4 ppm	Silicate ≤1 ppm
Sulphate ≤0.5 ppm	Ag ≤0.02 ppm	Al ≤0.05 ppm
As ≤0.005 ppm	Ba ≤0.1 ppm	Be ≤0.02 ppm
Bi ≤0.1 ppm	Ca ≤5 ppm	Cd ≤0.005 ppm
Co ≤0.01 ppm	Cr ≤0.1 ppm	Cu ≤0.01 ppm
Fe ≤0.2 ppm	K ≤0.1 ppm	Li ≤0.02 ppm
Mg ≤0.1 ppm	Mn ≤0.01 ppm	Mo ≤0.05 ppm
Na ≤0.5 ppm	Ni ≤0.05 ppm	Pb ≤0.02 ppm
Sr ≤0.02 ppm	Ti ≤0.1 ppm	Tl ≤0.05 ppm
V ≤0.05 ppm	Zn ≤0.01 ppm	

Code	Size	Packaging
408071	ml 1000	Glass bottle
408076	ml 1000	Glass bottle PVC coated
408072	ml 2500	Glass bottle
408075	kg 40	Plastic drum
408074	kg 260	Drum

For further information on above products, see following product/application section(s)

Chromatography (p. 34)

## RPE-For analysis



Code	Size	Packaging
524530	ml 1000	Plastic bottle
524531	ml 2500	Plastic bottle

## Nitric acid 69.5% - Special Grade

## RS-MOS For electronic use-ERBATRON



<b>Assay (acidimetric) 69.1 ± 69.9 %</b>	Description Clear colourless liquid	Density at 20° C 1.408 ± 1.418
Chloride ≤0.05 ppm	Phosphate ≤0.1 ppm	Heavy metals (Pb) ≤0.05 ppm
Residue on ignition ≤2 ppm	Sulphate ≤0.5 ppm	Ag ≤0.02 ppm
Al ≤0.05 ppm	As ≤0.005 ppm	Au ≤0.05 ppm
B ≤0.01 ppm	Ba ≤0.05 ppm	Be ≤0.02 ppm
Bi ≤0.02 ppm	Ca ≤0.1 ppm	Cd ≤0.005 ppm
Co ≤0.01 ppm	Cr ≤0.01 ppm	Cu ≤0.005 ppm
Fe ≤0.1 ppm	Ga ≤0.02 ppm	In ≤0.02 ppm
K ≤0.1 ppm	Li ≤0.02 ppm	Mg ≤0.1 ppm
Mn ≤0.01 ppm	Mo ≤0.05 ppm	Na ≤0.3 ppm
Ni ≤0.01 ppm	Pb ≤0.02 ppm	Pt ≤0.05 ppm
Sb ≤0.01 ppm	Sn ≤0.02 ppm	Sr ≤0.02 ppm
Ta ≤0.1 ppm	Ti ≤0.05 ppm	Tl ≤0.05 ppm
V ≤0.05 ppm	Zn ≤0.05 ppm	Zr ≤0.05 ppm

Code	Size	Packaging
408152	ml 2500	Glass bottle

Minimum order: 48 bottles

**Nitric acid 69.5% - Special Grade**

**RS-RSE For electronic use-ERBATRON**



<b>Assay (acidimetric) 69.1 + 69.9 %</b>	Description Clear colourless liquid	Density at 20° C 1.408 + 1.418
Chloride <=0.05 ppm	Phosphate <=0.1 ppm	Heavy metals (Pb) <=0.05 ppm
Residue on ignition <=2 ppm	Sulphate <=0.5 ppm	Ag <=0.02 ppm
Al <=0.05 ppm	As <=0.005 ppm	Au <=0.05 ppm
B <=0.01 ppm	Ba <=0.05 ppm	Be <=0.02 ppm
Bi <=0.02 ppm	Ca <=0.1 ppm	Cd <=0.005 ppm
Co <=0.01 ppm	Cr <=0.01 ppm	Cu <=0.005 ppm
Fe <=0.1 ppm	Ga <=0.02 ppm	In <=0.02 ppm
K <=0.1 ppm	Li <=0.02 ppm	Mg <=0.1 ppm
Mn <=0.01 ppm	Mo <=0.05 ppm	Na <=0.3 ppm
Ni <=0.01 ppm	Pb <=0.02 ppm	Pt <=0.02 ppm
Sb <=0.01 ppm	Si <=0.1 ppm	Sn <=0.02 ppm
Sr <=0.02 ppm	Ta <=0.1 ppm	Ti <=0.01 ppm
Tl <=0.02 ppm	V <=0.01 ppm	Zn <=0.05 ppm
Zr <=0.01 ppm		

Code	Size	Packaging
408097	ml 1000	Glass bottle
408098	ml 2500	Glass bottle
408094	kg 260	Polythene-metal drum

**RS-VSLI For electronic use-ERBATRON**



Code	Size	Packaging
527670	ml 2500	Glass bottle

**Nitric acid 67-69%**

Acido nitrico 67-69% - Acide nitrique 67-70% - Acido nítrico 67-70%

**HNO<sub>3</sub>**  
 Atomic weight: 63,013  
 CAS N: 7697-37-2  
 EEC N: 231-714-2

**Transport classification**  
 ONU n. 2031  
 Transport class: 8  
 Packaging group: II



R: 35  
 S: 23-26-36-45

**Nitric acid 67-69% - Special Grade**

**RS-Superpure-for trace analysis**



<b>Assay (acidimetric) 67 + 70 %</b>	Description Clear liquid	Al <= 1 ppb
Sb <= 1 ppb	As <= 1 ppb	Ba <= 1 ppb
Be <= 1 ppb	Bi <= 1 ppb	B <= 1 ppb
Cd <= 1 ppb	Ca <= 1 ppb	Cr <= 1 ppb
Co <= 1 ppb	Cu <= 1 ppb	Fe <= 1 ppb
Pb <= 1 ppb	Li <= 1 ppb	Mg <= 1 ppb
Mn <= 1 ppb	Hg <= 1 ppb	Mo <= 1 ppb
Ni <= 1 ppb	K <= 1 ppb	Se <= 1 ppb
Ag <= 1 ppb	Na <= 1 ppb	Sr <= 1 ppb
Th <= 1 ppb	Sn <= 1 ppb	Ti <= 1 ppb
U <= 1 ppb	V <= 1 ppb	Zn <= 1 ppb
Zr <= 1 ppb	Ce <= 0.5 ppb	Colour (APHA) <= 10
Cs <= 0.5 ppb	Dy <= 0.5 ppb	Er <= 0.5 ppb
Eu <= 0.5 ppb	Gd <= 0.5 ppb	Ga <= 0.5 ppb
Ge <= 0.5 ppb	Au <= 0.5 ppb	Hf <= 0.5 ppb
Ho <= 0.5 ppb	In <= 0.5 ppb	La <= 0.5 ppb
Lu <= 0.5 ppb	Nd <= 0.5 ppb	Nb <= 0.5 ppb
Pd <= 0.5 ppb	Pt <= 0.5 ppb	Pr <= 0.5 ppb
Re <= 0.5 ppb	Rh <= 0.5 ppb	Rb <= 0.5 ppb
Ru <= 0.5 ppb	Sm <= 0.5 ppb	Sc <= 0.5 ppb
Te <= 0.5 ppb	Tb <= 0.5 ppb	Tl <= 0.5 ppb
Tm <= 0.5 ppb	W <= 0.5 ppb	Yb <= 0.5 ppb
Y <= 0.5 ppb		

Code	Size	Packaging
408112	ml 500	Glass bottle
408113	ml 1000	Glass bottle
408114	ml 2500	Glass bottle

**For further information on above products, see following product/application section(s)**  
 Trace metal analysis (p. 86)

**Nitric acid 67.5% (42°Be)**

Acido nitrico 67,5% (42°Be) - Acide nitrique 67.5% (42 Be) - Acido nítrico 67.5% (42°Be)

**HNO<sub>3</sub>**  
 Atomic weight: 63,013  
 CAS N: 7697-37-2  
 EEC N: 231-714-2

**Transport classification**  
 ONU n. 2031  
 Transport class: 8  
 Packaging group: I  
 Packaging group: II



R: 35  
 S: 23-26-36-45

**Nitric acid 67.5% (42°Be) - Special Grade**

## Nitric acid 67.5% (42°Be) - Special Grade

## RS-Ultrapurere-for trace analysis



Assay (acidimetric) 67 + 70 %	Description Clear colourless liquid	
Al <= 20 ppt	As <= 20 ppt	Ag <= 10 ppt
Ba <= 10 ppt	Be <= 10 ppt	B <= 20 ppt
Ca <= 20 ppt	Cd <= 10 ppt	Bi <= 10 ppt
Cr <= 20 ppt	Cu <= 20 ppt	Co <= 10 ppt
Hg <= 100 ppt	K <= 10 ppt	Fe <= 20 ppt
Mn <= 10 ppt	Mo <= 10 ppt	Mg <= 10 ppt
Ni <= 50 ppt	Pb <= 10 ppt	Na <= 10 ppt
Sr <= 10 ppt	Tl <= 10 ppt	Sn <= 20 ppt
V <= 10 ppt	Zn <= 20 ppt	Ti <= 10 ppt
U <= 1 ppt	Th <= 1 ppt	Zr <= 10 ppt
Ce <= 10 ppt	Cs <= 10 ppt	Sb <= 10 ppt
Er <= 1 ppt	Eu <= 1 ppt	Dy <= 1 ppt
Ga <= 10 ppt	Ge <= 10 ppt	Gd <= 1 ppt
Hf <= 10 ppt	Ho <= 1 ppt	Au <= 20 ppt
La <= 1 ppt	Li <= 10 ppt	In <= 1 ppt
Nd <= 1 ppt	Nb <= 1 ppt	Lu <= 1 ppt
Pt <= 20 ppt	Pr <= 1 ppt	Pd <= 20 ppt
Rh <= 10 ppt	Rb <= 10 ppt	Re <= 10 ppt
Sm <= 1 ppt	Sc <= 10 ppt	Ru <= 20 ppt
Tb <= 1 ppt	Tm <= 1 ppt	Te <= 1 ppt
Yb <= 1 ppt	Y <= 1 ppt	W <= 10 ppt

Code	Size	Packaging
408051	ml 500	Plastic bottle

For further information on above products, see following product/application section(s)  
Trace metal analysis (p. 86)

## Nitric acid 67.5% (42°Be) - Technical Grade

## RE-Pure



Assay (acidimetric) 65.0 + 70.0 %	Description Clear colourless liquid	Density at 20° C 1.395 + 1.415
Residue on ignition <=50 ppm	Chloride <=30 ppm	Sulphate <=50 ppm
Heavy metals (Pb) <=10 ppm	Fe <=10 ppm	

Code	Size	Packaging
305502	ml 2500	Glass bottle
528530	ml 5000	Plastic tank
305501	kg 40	Plastic drum
305505	kg 70	Plastic drum

## Nitric acid 65%

Acido nitrico 65% - Acide nitrique 65% - Acido nítrico 65%

**HNO<sub>3</sub>**  
Atomic weight: 63,013  
CAS N: 7697-37-2  
EEC N: 231-714-2

**Transport classification**  
ONU n. 2031  
Transport class: 8  
Packaging group: II



R: R: 35  
S: S: 23-26-36-45

## Nitric acid 65% - Analytical Grade

## RPE-For analysis



Assay (acidimetric) 64 + 66 %	Description Clear colourless liquid	Density at 20° C 1.390 + 1.410
Chloride <=0.1 ppm	Phosphate <=0.5 ppm	Heavy metals (Pb) <=0.2 ppm
Residue on ignition <=4 ppm	Silicate <=1 ppm	Sulphate <=0.5 ppm
Ag <=0.02 ppm	Al <=0.05 ppm	As <=0.005 ppm
Ba <=0.1 ppm	Be <=0.02 ppm	Bi <=0.1 ppm
Ca <=0.5 ppm	Cd <=0.005 ppm	Co <=0.01 ppm
Cr <=0.1 ppm	Cu <=0.01 ppm	Fe <=0.2 ppm
K <=0.1 ppm	Li <=0.02 ppm	Mg <=0.1 ppm
Mn <=0.01 ppm	Mo <=0.05 ppm	Na <=0.5 ppm
Ni <=0.05 ppm	Pb <=0.02 ppm	Sr <=0.02 ppm
Ti <=0.1 ppm	Tl <=0.05 ppm	V <=0.05 ppm
Zn <=0.05 ppm		

Code	Size	Packaging
524535	ml 1000	Plastic bottle
524536	ml 2500	Plastic bottle



## Nitric acid 65% - Analytical Grade



## RPE-ISO-for analysis

Assay (acidimetric) 64 + 66 %	Description Clear colourless liquid	Density at 20° C 1.390 + 1.410
Chloride <=0.1 ppm	Phosphate <=0.5 ppm	Heavy metals (Pb) <=0.2 ppm
Residue on ignition <=4 ppm	Silicate <=1 ppm	Sulphate <=0.5 ppm
Ag <=0.02 ppm	Al <=0.05 ppm	As <=0.005 ppm
Ba <=0.1 ppm	Be <=0.02 ppm	Bi <=0.1 ppm
Ca <=0.5 ppm	Cd <=0.005 ppm	Co <=0.01 ppm
Cr <=0.1 ppm	Cu <=0.01 ppm	Fe <=0.2 ppm
K <=0.1 ppm	Li <=0.02 ppm	Mg <=0.1 ppm
Mn <=0.01 ppm	Mo <=0.05 ppm	Na <=0.5 ppm
Ni <=0.05 ppm	Pb <=0.02 ppm	Sr <=0.02 ppm
Ti <=0.1 ppm	Tl <=0.05 ppm	V <=0.05 ppm
Zn <=0.05 ppm		

Code	Size	Packaging
408028	ml 100	Bottle
408021	ml 1000	Glass bottle
408022	ml 1000	Glass bottle
408025	ml 2500	Glass bottle
408027	kg 40	Plastic drum

For further information on above products, see following product/application section(s)  
Microscopy (p. 58)

## Nitric acid 65% - Special Grade



## RS-RSE For electronic use-ERBATRON

Assay (acidimetric) 64.0 + 66.0 %	Description Clear colourless liquid	Density at 20° C 1.390 + 1.410
Chloride <=0.05 ppm	Phosphate <=0.1 ppm	Heavy metals (Pb) <=0.05 ppm
Residue on ignition <=2 ppm	Sulphate <=0.5 ppm	Ag <=0.02 ppm
Al <=0.05 ppm	As <=0.005 ppm	Au <=0.05 ppm
B <=0.01 ppm	Ba <=0.05 ppm	Be <=0.02 ppm
Bi <=0.02 ppm	Ca <=0.1 ppm	Cd <=0.005 ppm
Co <=0.01 ppm	Cr <=0.01 ppm	Cu <=0.005 ppm
Fe <=0.1 ppm	Ga <=0.02 ppm	In <=0.02 ppm
K <=0.1 ppm	Li <=0.02 ppm	Mg <=0.1 ppm
Mn <=0.01 ppm	Mo <=0.05 ppm	Na <=0.3 ppm
Ni <=0.01 ppm	Pb <=0.02 ppm	Pt <=0.05 ppm
Sb <=0.01 ppm	Sn <=0.02 ppm	Sr <=0.02 ppm
Ta <=0.1 ppm	Ti <=0.05 ppm	Tl <=0.05 ppm
V <=0.05 ppm	Zn <=0.05 ppm	Zr <=0.05 ppm

Code	Size	Packaging
408101	ml 1000	Glass bottle
408102	ml 2500	Glass bottle
408103	kg 260	Polythene-metal drum

## Nitric acid 65% - Technical Grade



## RE-Pure

Assay (acidimetric) 64 + 66 %	Description Clear colourless liquid	Density at 20° C 1.390 + 1.410
Chloride <=10 ppm	Heavy metals (Pb) <=10 ppm	Residue on ignition <=500 ppm
Sulphate <=100 ppm	As <=1 ppm	Fe <=50 ppm

Code	Size	Packaging
305201	ml 1000	Glass bottle
305207	ml 2500	Glass bottle
305205	kg 25	Drum
305202	kg 40	Plastic drum

## Nitric acid 65% Low content Hg

Acido nitrico 65% Basso contenuto di Hg - Acide nitrique 65% Basse teneur en mercure - Acido nitrico 65% bajo contenido de Hg

HNO<sub>3</sub>

Atomic weight: 63,013  
CAS N: 7697-37-2  
EEC N: 231-714-2

## Transport classification

ONU n. 2031  
Transport class: 8  
Packaging group: II



R: 35  
S: 23-26-36-45

## Nitric acid 65% Low content Hg - Special Grade