



LAB-SCAN
analytical sciences

The Choice of Analysts
2009-2010

introduction



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Our Laboratory Reagents are sold to the Pharmaceutical, Biochemical, Environmental, Life Sciences and Biomedical sectors in over 60 countries worldwide.

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It is our stated Quality Policy to satisfy all of our customer requirements with a view to heightening the levels of customer satisfaction.

In line with this policy we operate a defined quality system which is in compliance with ISO 9001:2000 Quality Standard.

Labscan is indeed a global brand which has developed a loyal customer base over the years. Through its continuing strong commitment to R&D, new product development and process improvement we aim to build on this base and to continue to satisfy our customers for many years into the future.

Our Website (www.labscan.eu) contains many new features including downloadable Certificates of Analysis, Material Safety Data Sheets and complete Data on all of our global operations and worldwide distribution network.

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To make an order, ask about products that are not included in the catalogue or in case of any other questions, please do not hesitate to contact us:

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CHEMICAL REAGENTS

High purity chemical reagents in complete assortment groups representing different purity levels and variety of applications in conformity with individual customers needs. Packing sizes suitable for industrial and laboratory use.



1,4-DIOXAN P.A. A00023

Chemical formula	C ₆ H ₈ O ₂
Density	1,03 g/cm ³
CAS	123-91-1
UN number	UN 1165
EINECS	204-661-8
Molecular Weight	88,11 g/mol
Density (20°C)	min. 1,032 max. 1,034 g/cm ³
Temperature of crystallization	min. 11,2 °C
Refractive index (20°C)	min. 1,42 max. 1,424
Water	max. 0,2 %
Free acids (as CH ₃ COOH)	max. 0,005 %
Acetal	max. 0,5 %
Peroxides (as H ₂ O ₂)	max. 0,005 %
Evaporation residue	max. 0,005 %

F, Xn, R: 11-19-36/37-40-66



1,5-DIPHENYLCARBAZIDE P.A. A00027

Chemical formula	C ₁₃ H ₁₁ N ₃ O; C ₆ H ₅ NHNHCONHNHC ₆ H ₅
CAS	140-22-7
EINECS	205-403-7
Molecular Weight	242,28 g/mol
Appearance	white or pink, crystalline powder
Solubility in ethanol	passes test
Sensitivity to chromium	min. 0,0000005 g/ml
Sensitivity to ions of mercury Hg ²⁺	min. 0,000002 g/ml
Residue on ignition (as SO ₄)	max. 0,05 %
Diphenylcarbazone and other organic impurities	passes test

1,5-DIPHENYLCARBAZONE P.A. A00026

Chemical formula	C ₁₃ H ₁₁ N ₃ O
CAS	538-62-5
EINECS	208-698-0
Molecular Weight	240,27 g/mol
Appearance	orange, crystalline powder
Assay	min. 40 max. 50 %
Melting point	min. 152 max. 157 °C
Solubility in ethanol	passes test
Sensitivity to ions of mercury Hg ²⁺	min. 0,000001 g/ml
Residue on ignition (as SO ₄)	max. 0,1 %

2,2' - BIPYRIDYL P.A. A00047

Chemical formula	C ₁₀ H ₈ N ₂
CAS	366-18-7
UN number	UN 2811
EINECS	206-674-4
Molecular Weight	156,19 g/mol
Appearance	white with slightly yellow shade crystalline powder
Assay	min. 99,5 max. 101 %
Melting point	min. 69 °C
Solubility in hydrochloric acid	passes test
Sensitivity to ions of iron Fe ²⁺	min. 0,0000001 g/ml
TLC test	passes test
Residue on ignition (as SO ₄)	max. 0,2 %

T, R: 21-25



2,3,5-TRIPHENYLTETRAZOLIUM CHLORIDE P.A. A00048

Chemical formula	C ₁₉ H ₁₅ ClN ₄
CAS	298-96-4
EINECS	206-071-6
Molecular Weight	334,81 g/mol
Assay	min. 98,5 %
Absorptivity (1 %; 1 cm; 247 nm; water)	min. 670
Loss on drying (120°C)	max. 0,5 %
Solubility (5% water solution)	transparent solution
Residue on ignition (as SO ₄)	max. 0,2 %
Melting point	min. 235 °C

Xi, R: 36/37/38



2,3,5-TRIPHENYLTETRAZOLIUM CHLORIDE PURE G00048

Chemical formula	C ₁₉ H ₁₅ ClN ₄
CAS	298-96-4
EINECS	206-071-6
Molecular Weight	334,81 g/mol
Assay	min. 98 %
Loss on drying (120°C)	max. 0,5 %

Xi, R: 36/37/38



4-DIMETHYLAMINO BENZALDEHYDE PURE P.A. A00083

Chemical formula	C ₉ H ₁₁ NO; [(CH ₃) ₂ N]C ₆ H ₄ CHO
CAS	100-10-7
EINECS	202-819-0
Molecular Weight	149,19 g/mol
Appearance	white or light yellow crystals or powder
Molar absorptivity: E (329 nm; cyclohexane)	min. 33000
Sensitivity to amines	passes test
Solubility in ethanol	passes test
TLC test	passes test
Foreign organic substances	passes test

ACETANILIDE PURE G00091

Chemical formula	C ₈ H ₉ NO
Density	1,2 g/cm ³
CAS	103-84-4
EINECS	203-150-7
Molecular Weight	135,17 g/mol
Appearance	colourless crystals
Assay	min. 98,5 %
Melting point	113-116 °C
Residue on ignition	max. 0,05 %

Xn, R: 22



ACETIC ANHYDRIDE (ACS) P.A. A00840

Chemical formula	C ₄ H ₆ O ₃ ; (CH ₃ CO) ₂ O
Molecular Weight	102,09 g/mol
Appearance	colourless, clear liquid
Assay	min. 98 %
Density (20°C)	min. 1,079 max. 1,082 g/cm ³
Evaporation residue	max. 0,003 %
Substances reducing KMnO ₄ (as O)	max. 0,015 %
Chlorides (Cl)	max. 0,0001 %
Phosphates (PO ₄)	max. 0,0005 %
Sulfates (SO ₄)	max. 0,0002 %
Heavy metals (as Pb)	max. 0,0001 %
Iron (Fe)	max. 0,00005 %

Xn, R: 22



ALBUMIN EGG POWDER X00107

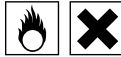
CAS	9006-59-1
EINECS	232-692-7
Protein	min. 83,5
Water (KF)	max. 8,0 %
Solubility	min. 92,0
Aerobic bacteria in 1,0 g	max. 50000
Microorganisms from Enterobacteriaceae and other sticks Gram - in 1,0 g	max. 100 cfu
Salmonella sp.	indeterminable
Pathogenic staphylococci in 1,0 g	indeterminable
3-Hydroxybutyric acid	max. 10 mg/kg dried mass
L-lactic acid	max. 1000 mg/kg dried mass

T, N, R: 25-50/53

ALUMINIUM NITRATE NONAHYDRATE P.A. A00474

Chemical formula	Al(NO ₃) ₃ · 9H ₂ O
CAS	7784-27-2
UN number	UN 1438
EINECS	236-751-8
Molecular Weight	375,13 g/mol
Appearance	colourless crystals
Assay	min. 98,5 max. 101 %
Substances insoluble in water	max. 0,01 %
pH (5%, H ₂ O)	min. 2,5 max. 3,5
Chlorides (Cl)	max. 0,001 %
Sulfates (SO ₄)	max. 0,005 %
Heavy metals (as Pb)	max. 0,0005 %
Sodium, potassium, calcium (Na+K+Ca)	max. 0,03 %
Iron (Fe)	max. 0,004 %

O, Xi, R: 8-36/38

**ALUMINIUM OXIDE CALCINATED PURE G00485**

Chemical formula	Al ₂ O ₃
CAS	1344-28-1
EINECS	215-691-6
Molecular Weight	101,94 g/mol
Appearance	white, crystalline powder
Assay	min. 96 %
Substances soluble in water	max. 0,75 %
Loss on ignition	max. 3 %
Nitrate (NO ₃)	max. 0,05 %
Chlorides (Cl)	max. 0,02 %
Sulfates (SO ₄)	max. 0,05 %
Heavy metals (as Pb)	max. 0,015 %
Iron (Fe)	max. 0,03 %

ALUMINIUM OXIDE CALCINATED P.A. A00485

Chemical formula	Al ₂ O ₃
CAS	1344-28-1
EINECS	215-691-6
Molecular Weight	101,94 g/mol
Appearance	white, crystalline powder
Assay	min. 98,5 %
Substances soluble in water	max. 0,25 %
Loss on ignition	max. 1 %
Nitrate (NO ₃)	max. 0,02 %
Chlorides (Cl)	max. 0,005 %
Sulfates (SO ₄)	max. 0,01 %
Heavy metals (as Pb)	max. 0,005 %
Iron (Fe)	max. 0,01 %

ALUMINIUM POTASSIUM SULFATE DODECAHYDRATE PURE G00480

Chemical formula	KAl(SO ₄) ₂ · 12H ₂ O
CAS	7784-24-9
EINECS	233-141-3
Molecular Weight	474,39 g/mol
Appearance	small white crystals
Assay	min. 97,5 %
Substances insoluble in water	max. 0,01 %
Chlorides (Cl)	max. 0,004 %
Ammonia salts (NH ₄)	max. 0,01 %
Arsenic (As)	max. 0,0005 %
Cadmium (Cd)	max. 0,001 %
Copper (Cu)	max. 0,001 %
Lead (Pb)	max. 0,001 %
Iron (Fe)	max. 0,002 %

ALUMINIUM POTASSIUM SULFATE DODECAHYDRATE (ACS) P.A. A00480

Chemical formula	KAl(SO ₄) ₂ · 12H ₂ O
CAS	7784-24-9
EINECS	233-141-3
Molecular Weight	474,39 g/mol
Appearance	small white crystals
Assay (complexometric)	min. 98 max. 102 %
pH (5%, H ₂ O)	min. 3,0
Substances insoluble in water	max. 0,005 %
Chlorides (Cl)	max. 0,0005 %
Ammonia salts (NH ₄)	max. 0,005 %
Phosphates (PO ₄)	max. 0,0005 %
Heavy metals (as Pb)	max. 0,001 %
Arsenic (As)	max. 0,0002 %
Chromium (Cr)	max. 0,0005 %
Zinc (Zn)	max. 0,0005 %
Cadmium (Cd)	max. 0,0005 %
Cobalt (Co)	max. 0,0005 %
Manganese (Mn)	max. 0,0005 %
Copper (Cu)	max. 0,0005 %
Nickel (Ni)	max. 0,0005 %
Lead (Pb)	max. 0,0005 %
Sodium (Na)	max. 0,02 %
Iron (Fe)	max. 0,0005 %

AMMONIA SOLUTION 25 % P.A. A00116

Chemical formula	NH ₃
Density	0,91 g/cm ³
CAS	1336-21-6
UN number	UN 2672
EINECS	215-647-6
Molecular Weight	17,03 g/mol
Appearance	colourless, clear liquid
Assay	min. 24 max. 28 %
Evaporation residue	max. 0,003 %
Substances reducing KMnO ₄ (as O)	max. 0,0008 %
Chlorides (Cl)	max. 0,0001 %
Phosphates (PO ₄)	max. 0,0001 %
Sulfur total (as SO ₄)	max. 0,0003 %
Carbonates (CO ₃)	max. 0,002 %
Heavy metals (as Pb)	max. 0,00005 %
Calcium and magnesium (as Ca)	max. 0,0002 %
Iron (Fe)	max. 0,000025 %

C, N, R: 34-50

**AMMONIUM ACETATE P.A. A00138**

Chemical formula	C ₂ H ₇ NO ₂ ; CH ₃ COONH ₄
CAS	631-61-8
EINECS	211-162-9
Molecular Weight	77,08 g/mol
Appearance	colourless crystals
Assay	min. 97 max. 100 %
Substances insoluble in water	max. 0,0025 %
pH (5%, H ₂ O)	min. 6 max. 7,3
Residue on ignition (as SO ₄)	max. 0,01 %
Substances reducing KMnO ₄ (as O)	max. 0,007 %
Nitrate (NO ₃)	max. 0,0015 %
Chlorides (Cl)	max. 0,0005 %
Phosphates (PO ₄)	max. 0,0005 %
Sulfates (SO ₄)	max. 0,001 %
Heavy metals (as Pb)	max. 0,0005 %
Aluminium (Al)	max. 0,0005 %
Magnesium (Mg)	max. 0,0002 %
Calcium (Ca)	max. 0,001 %
Iron (Fe)	max. 0,0005 %

AMMONIUM CHLORIDE P.A. A00124

Chemical formula	NH ₄ Cl
CAS	12125-02-9
EINECS	235-186-4
Molecular Weight	53,49 g/mol
Appearance	white, crystalline powder
Assay	min. 99,5 %
Substances insoluble in water	max. 0,005 %
pH (5%, H ₂ O)	min. 4,5 max. 5,5
Residue on ignition	max. 0,05 %
Nitrate (NO ₃)	max. 0,0006 %
Phosphates (PO ₄)	max. 0,001 %
Iodides and bromides	max. 0,001 %
Sulfates (SO ₄)	max. 0,002 %
Heavy metals (as Pb)	max. 0,0005 %
Arsenic (As)	max. 0,00005 %
Magnesium (Mg)	max. 0,001 %
Calcium (Ca)	max. 0,001 %
Iron (Fe)	max. 0,0005 %

Xn, R: 22-36

**AMMONIUM HYDROGEN DIFLUORIDE P.A. A00147**

Chemical formula	NH ₄ F . HF
CAS	1341-49-7
UN number	UN 1727
EINECS	215-676-4
Molecular Weight	57,04 g/mol
Appearance	colourless crystals
Assay	min. 95 %
Residue on ignition (as SO ₄)	max. 0,02 %
Chlorides (Cl)	max. 0,001 %
Sulfates (SO ₄)	max. 0,01 %
Zinc (Zn)	max. 0,0001 %
Copper (Cu)	max. 0,0001 %
Lead (Pb)	max. 0,0005 %
Iron (Fe)	max. 0,001 %

T, C, R: 25-34

**AMMONIUM IRON(II) SULFATE HEXAHYDRATE PURE G00150**

Chemical formula	(NH ₄) ₂ Fe(SO ₄) ₂ . 6 H ₂ O
CAS	7783-85-9
EINECS	233-151-8
Molecular Weight	392,14 g/mol
Appearance	bluish green crystals
Assay	min. 98 max. 101 %
Substances insoluble in H ₂ SO ₄	max. 0,01 %
pH (5%, H ₂ O)	min. 3 max. 5
Chlorides (Cl)	max. 0,005 %
Phosphates (PO ₄)	max. 0,005 %

AMMONIUM IRON(II) SULFATE HEXAHYDRATE (ACS) P.A. A00150

Chemical formula	(NH ₄) ₂ Fe(SO ₄) ₂ . 6 H ₂ O
CAS	7783-85-9
EINECS	233-151-8
Molecular Weight	392,14 g/mol
Appearance	bluish green crystals
Assay	min. 99 max. 101 %
Substances insoluble in H ₂ SO ₄	max. 0,005 %
pH (5%, H ₂ O)	min. 3 max. 5
Substances not precipitated by NH ₄ OH	max. 0,1 %
Chlorides (Cl)	max. 0,001 %
Phosphates (PO ₄)	max. 0,002 %
Zinc (Zn)	max. 0,003 %
Aluminium (Al)	max. 0,005 %
Cadmium (Cd)	max. 0,001 %
Cobalt (Co)	max. 0,005 %
Magnesium (Mg)	max. 0,005 %
Manganese (Mn)	max. 0,02 %
Copper (Cu)	max. 0,001 %
Lead (Pb)	max. 0,001 %
Potassium (K)	max. 0,01 %
Mercury (Hg)	max. 0,001 %
Sodium (Na)	max. 0,01 %
Strontium (Sr)	max. 0,001 %
Calcium (Ca)	max. 0,01 %
Iron Fe(III)	max. 0,02 %

AMMONIUM IRON(III) SULFATE DODECAHYDRATE P.A. A00152

Chemical formula	NH ₄ Fe(SO ₄) ₂ . 12H ₂ O
CAS	7783-83-7
EINECS	233-382-4
Molecular Weight	482,19 g/mol
Appearance	pale violet, transparent crystals
Assay	min. 98 max. 101 %
Substances insoluble in water	max. 0,01 %
pH (5%, H ₂ O)	min. 1,3
Nitrate (NO ₃)	max. 0,03 %
Chlorides (Cl)	max. 0,001 %
Phosphates (PO ₄)	max. 0,006 %
Zinc (Zn)	max. 0,005 %
Manganese (Mn)	max. 0,01 %
Copper (Cu)	max. 0,005 %
Iron (II)	max. 0,002 %
Alkali and alkaline earth metals (as SO ₄)	max. 0,05 %

AMMONIUM MOLYBDATE TETRAHYDRATE P.A. A00134

Chemical formula	(NH ₄) ₆ Mo ₇ O ₂₄ . 4H ₂ O
CAS	12054-85-2
EINECS	234-722-4
Molecular Weight	1235,8 g/mol
Appearance	colourless or light green crystals
Assay	min. 99 %
Substances insoluble in dilute NH ₄ OH	max. 0,01 %
Chlorides (Cl)	max. 0,001 %
Phosphates, silicates, arsenates (as PO ₄)	max. 0,001 %
Sulfates (SO ₄)	max. 0,005 %
Heavy metals (as Pb)	max. 0,001 %
Copper (Cu)	max. 0,001 %
Iron (Fe)	max. 0,001 %

AMMONIUM MONOVANADATE P.A. A00135

Chemical formula	NH ₄ VO ₃
CAS	7803-55-6
UN number	UN 2859
EINECS	232-261-3
Molecular Weight	116,98 g/mol
Assay	min. 99,5 %
Chlorides (Cl)	max. 0,002 %
Phosphates (PO ₄)	max. 0,005 %
Sulfates (SO ₄)	max. 0,01 %
Zinc (Zn)	max. 0,001 %
Cadmium (Cd)	max. 0,001 %
Cobalt (Co)	max. 0,002 %
Copper (Cu)	max. 0,001 %
Nickel (Ni)	max. 0,002 %
Lead (Pb)	max. 0,002 %
Iron (Fe)	max. 0,001 %

T, R: 20-25-36/37

**AMMONIUM NITRATE PURE G00121**

Chemical formula	NH ₄ NO ₃
CAS	6484-52-2
UN number	UN 1942
EINECS	229-347-8
Molecular Weight	80,05 g/mol
Appearance	white, crystalline powder
Assay (on dried substance)	min. 99 %
Moisture	max. 2,5 %
Substances insoluble in water	max. 0,01 %
pH (5%, H ₂ O)	min. 4,5 max. 6
Residue on ignition	max. 0,05 %
Nitrite (NO ₂)	max. 0,0008 %
Chlorides (Cl)	max. 0,004 %
Phosphates (PO ₄)	max. 0,001 %
Sulfates (SO ₄)	max. 0,01 %
Heavy metals (as Pb)	max. 0,0006 %
Arsenic (As)	max. 0,0001 %
Calcium (Ca)	max. 0,005 %
Iron (Fe)	max. 0,001 %

O, R: 8-9

**AMMONIUM NITRATE P.A. A00121**

Chemical formula	NH ₄ NO ₃
CAS	6484-52-2
UN number	UN 1942
EINECS	229-347-8
Molecular Weight	80,05 g/mol
Appearance	white, crystalline powder
Assay (on dried substance)	min. 99 %
Moisture	max. 2 %
Substances insoluble in water	max. 0,005 %
pH (5%, H ₂ O)	min. 4,5 max. 6
Residue on ignition	max. 0,02 %
Nitrite (NO ₂)	max. 0,0004 %
Chlorides (Cl)	max. 0,001 %
Phosphates (PO ₄)	max. 0,0005 %
Sulfates (SO ₄)	max. 0,005 %
Heavy metals (as Pb)	max. 0,0003 %
Arsenic (As)	max. 0,00005 %
Magnesium (Mg)	max. 0,001 %
Calcium (Ca)	max. 0,003 %
Iron (Fe)	max. 0,0002 %

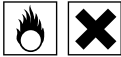
O, R: 8-9



AMMONIUM PERSULFATE P.A. A00137

Chemical formula	(NH ₄) ₂ S ₂ O ₈
CAS	7727-54-0
UN number	UN 1444
EINECS	231-786-5
Molecular Weight	228,2 g/mol
Appearance	colourless crystals or slightly yellow powder
Assay	min. 98 %
Substances insoluble in water	max. 0,01 %
Free acids (as H ₂ SO ₄)	max. 0,2 %
Residue on ignition	max. 0,05 %
Chlorides and Chlorates (as Cl)	max. 0,001 %
Heavy metals (as Pb)	max. 0,001 %
Manganese (Mn)	max. 0,0001 %
Iron (Fe)	max. 0,001 %

O, Xn, R: 8-22-36/37/38-42/43

**AMMONIUM SULFATE P.A. A00142**

Chemical formula	(NH ₄) ₂ SO ₄
CAS	7783-20-2
EINECS	231-984-1
Molecular Weight	132,14 g/mol
Appearance	colourless or white crystals
Assay	min. 98,5 %
Substances insoluble in water	max. 0,005 %
pH (5%, H ₂ O)	min. 5 max. 6
Residue on ignition	max. 0,02 %
Nitrate (NO ₃)	max. 0,002 %
Chlorides (Cl)	max. 0,001 %
Phosphates (PO ₄)	max. 0,001 %
Heavy metals (as Pb)	max. 0,001 %
Arsenic (As)	max. 0,0005 %
Zinc (Zn)	max. 0,005 %
Magnesium (Mg)	max. 0,0005 %
Copper (Cu)	max. 0,0005 %
Lead (Pb)	max. 0,001 %
Calcium (Ca)	max. 0,001 %
Iron (Fe)	max. 0,0005 %

O, Xn, R: 8-22-36/37/38-42/43

ANILINE HYDROCHLORIDE PURE G00160

Chemical formula	C ₆ H ₅ CIN; C ₆ H ₅ NH ₂ · HCl
CAS	142-04-1
UN number	UN 1548
EINECS	205-519-8
Molecular Weight	129,59 g/mol
Appearance	white crystals or yellowish or grey powder
Assay	min. 98,5 max. 101,5 %
Melting point	199 ± 202 °C
Substances insoluble in water	max. 0,05 %
Residue on ignition (as SO ₂)	max. 0,05 %

T, N, R: 23/24/25-40-41-43-48/23/24/25-68-50

**ANTIMONY(III) CHLORIDE SOLUTION 35% SPECIALLY PURE P01420**

Density	1,41 g/cm ³
UN number	UN 3264
Assay	min. 35 %
Substances insoluble	max. 0,01 %
Antimony(V) chloride (SbCl ₅)	max. 0,5 %
Sulfates (SO ₄)	max. 0,5 %
Arsenic (As)	max. 0,5 %
Aluminium (Al)	max. 0,5 %

C, N, R: 34-37-51/53

**BARIUM CHLORIDE DIHYDRATE PURE G00183**

Chemical formula	BaCl ₂ · 2H ₂ O
CAS	10326-27-9
UN number	UN 1564
EINECS	233-788-1
Molecular Weight	244,28 g/mol
Appearance	white crystals
Assay	min. 99 max. 102 %
pH (5%, H ₂ O)	min. 5 max. 8
Heavy metals (as Pb)	max. 0,001 %
Strontium (Sr)	max. 0,5 %
Calcium (Ca)	max. 0,05 %
Iron (Fe)	max. 0,001 %

T, R: 20-25

**BARIUM CHLORIDE DIHYDRATE P.A. A00183**

Chemical formula	BaCl ₂ · 2H ₂ O
CAS	10326-27-9
UN number	UN 1564
EINECS	233-788-1
Molecular Weight	244,28 g/mol
Appearance	white crystals
Assay	min. 99 %
Substances insoluble in water	max. 0,01 %
pH (5%, H ₂ O)	min. 5 max. 8
Loss on drying (150°C)	min. 14 max. 16 %
Nitrogen (N)	max. 0,002 %
Heavy metals (as Pb)	max. 0,0005 %
Potassium (K)	max. 0,005 %
Sodium (Na)	max. 0,005 %
Strontium (Sr)	max. 0,1 %
Calcium (Ca)	max. 0,005 %

T, R: 20-25

**BENZALDEHYDE PURE G00197**

Chemical formula	C ₇ H ₆ O
Density	1,05 g/cm ³
CAS	100-52-7
UN number	UN 1990
EINECS	202-860-4
Molecular Weight	106,13 g/mol
Assay	min. 98 %
Density (20°C)	min. 1,042 max. 1,047 g/cm ³
Refractive index (20°C)	min. 1,544 max. 1,547
Acid number	max. 5 mg KOH/g

Xn, R: 22

**BROMOETHANE PURE G00242**

Chemical formula	C ₂ H ₅ Br
Density	1,46 g/cm ³
CAS	74-96-4
UN number	UN 1891
EINECS	200-825-8
Molecular Weight	108,97 g/mol
Appearance	colourless liquid
Assay	min. 98 %
Colour	max. 150 Hazen
Density (20°C)	min. 1,452 max. 1,461 g/cm ³
Refractive index (20°C)	min. 1,42 max. 1,425
Water	max. 0,04 %
Hydrogen bromide acid (as Br)	max. 0,005 %
Evaporation residue	max. 0,003 %

F, Xn, R: 11-20/22-40

**CALCIUM CARBONATE PRECIPITATED P.A. A01354**

Chemical formula	CaCO ₃
CAS	471-34-1
EINECS	207-439-9
Molecular Weight	100,09 g/mol
Appearance	white powder
Assay	min. 99 %
Substances insoluble in HCl	max. 0,005 %
Nitrogen (N)	max. 0,04 %
Chlorides (Cl)	max. 0,001 %
Sulfates (SO ₄)	max. 0,05 %
Arsenic (As)	max. 0,0003 %
Barium (Ba)	max. 0,005 %
Zinc (Zn)	max. 0,01 %
Magnesium (Mg)	max. 0,05 %
Copper (Cu)	max. 0,0005 %
Lead (Pb)	max. 0,0005 %
Potassium (K)	max. 0,01 %
Sodium (Na)	max. 0,05 %
Strontium (Sr)	max. 0,05 %
Iron (Fe)	max. 0,001 %

CALCIUM CHLORIDE ANHYDROUS FOR EXSICCATORS X01339

Chemical formula	CaCl ₂
CAS	10043-52-4
EINECS	233-140-8
Molecular Weight	110,99 g/mol
Appearance	white-grey, porous pieces
Loss on ignition	max. 10 %

Xi, R: 36

**CALCIUM CHLORIDE ANHYDROUS P.A.** A01339

Chemical formula	CaCl ₂
CAS	10043-52-4
EINECS	233-140-8
Molecular Weight	110,99 g/mol
Appearance	white, porous pieces, granules or white powder
Assay	min. 97 %
Sulfates (SO ₄)	max. 0,02 %
Heavy metals (as Pb)	max. 0,002 %
Iron (Fe)	max. 0,002 %

Xi, R: 36

**CALCIUM CHLORIDE HEXAHYDRATE P.A.** A01338

Chemical formula	CaCl ₂ · 6H ₂ O
CAS	7774-34-7
EINECS	233-140-8
Molecular Weight	219,09 g/mol
Appearance	colourless, hygroscopic crystals
Assay	min. 98,5 %
Substances insoluble in water	max. 0,005 %
pH (5%, H ₂ O)	min. 5,5 max. 7,5
Sulfates (SO ₄)	max. 0,005 %
Heavy metals (as Pb)	max. 0,0005 %
Barium (Ba)	max. 0,005 %
Magnesium (Mg)	max. 0,05 %
Potassium (K)	max. 0,01 %
Sodium (Na)	max. 0,2 %
Iron (Fe)	max. 0,0002 %

Xi, R: 36

**CALCIUM HYDROGEN PHOSPHATE DIHYDRATE P.A.** A01355

Chemical formula	CaHPO ₄ · 2H ₂ O
CAS	7789-77-7
EINECS	231-826-1
Molecular Weight	172,1 g/mol
Appearance	white powder
Identity	passes test
Assay	min. 99 max. 101 %
Substances insoluble in HCl	max. 0,005 %
Loss on ignition	min. 24,5 max. 26,5 %
Chlorides (Cl)	max. 0,002 %
Sulfates (SO ₄)	max. 0,02 %
Barium (Ba)	max. 0,01 %
Magnesium (Mg)	max. 0,1 %
Copper (Cu)	max. 0,001 %
Lead (Pb)	max. 0,001 %
Iron (Fe)	max. 0,002 %
Calcium dihydrophosphate and tri-calcium phosphate	passes test

CALCIUM HYDROXIDE P.A. A01357

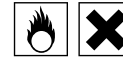
Chemical formula	Ca(OH) ₂
CAS	1305-62-0
EINECS	215-137-3
Molecular Weight	74,1 g/mol
Appearance	white or slightly grey, fine, crystalline powder
Assay	min. 96 %
Substances insoluble in HCl	max. 0,03 %
Substances not precipitated by ammonia oxalate (as SO ₄)	max. 2,5 %
Calcium carbonate	max. 3 %
Chlorides (Cl)	max. 0,005 %
Sulfates (SO ₄)	max. 0,05 %
Zinc (Zn)	max. 0,0005 %
Copper (Cu)	max. 0,0005 %
Lead (Pb)	max. 0,001 %
Iron (Fe)	max. 0,05 %

Xi, R: 41

**CALCIUM NITRATE TETRAHYDRATE P.A.** A01334

Chemical formula	Ca(NO ₃) ₂ · 4H ₂ O
CAS	13477-34-4
UN number	UN 1454
EINECS	233-332-1
Molecular Weight	236,15 g/mol
Appearance	colourless, hygroscopic crystals
Assay	min. 99 %
Substances insoluble in water	max. 0,005 %
pH (5%, H ₂ O)	min. 5 max. 7
Chlorides (Cl)	max. 0,002 %
Sulfates (SO ₄)	max. 0,005 %
Barium (Ba)	max. 0,005 %
Magnesium (Mg)	max. 0,05 %
Copper (Cu)	max. 0,0005 %
Lead (Pb)	max. 0,0005 %
Potassium (K)	max. 0,005 %
Sodium (Na)	max. 0,005 %
Strontium (Sr)	max. 0,05 %
Iron (Fe)	max. 0,0005 %

O, Xi, R: 8-36

**CALCIUM OXIDE P.A.** A01353

Chemical formula	CaO
CAS	1305-78-8
EINECS	215-138-9
Molecular Weight	56,08 g/mol
Appearance	white, pale-yellow or grey powder
Assay (after ignition)	min. 98 %
Substances insoluble in HCl	max. 0,5 %
Substances not precipitated by ammonia oxalate (as SO ₄)	max. 2,5 %
Loss on ignition	max. 10 %
Arsenic (As)	max. 0,0003 %
Zinc (Zn)	max. 0,002 %
Copper (Cu)	max. 0,001 %
Lead (Pb)	max. 0,001 %

Xi, R: 41

**CANADA BALSAM FOR MICROSCOPY** X00181

Density	0,99 g/cm ³
CAS	8007-47-4
EINECS	232-362-2
Refractive index (20°C)	min. 1,522 max. 1,53

CHLORAL HYDRATE SPECIALLY PURE P00261

Chemical formula	C ₂ H ₃ Cl ₂ O ₂
CAS	302-17-0
UN number	UN 2811
EINECS	206-117-5
Molecular Weight	165,4 g/mol
Appearance	colourless or light yellow transparent crystals
Assay	min. 98,5 max. 101,0 %
pH (0,1g/1ml, 20°C)	min. 3,5 max. 5,5
Identity	passes test
Appearance of solution	passes test
Evaporation residue	max. 0,1 %
Chloral alcoholate	passes test
Chlorides (Cl)	max. 0,01 %
Heavy metals (as Pb)	max. 20 ug/g

T, R: 25-36/38



CHLORAMINE T TRIHYDRATE P.A. A00264

Chemical formula	C ₁ H ₃ ClNNaO ₂ S · 3H ₂ O
CAS	127-65-1
UN number	UN 3263
EINECS	204-854-7
Molecular Weight	281,69 g/mol
Assay (iodometric)	min. 99 %
Substances insoluble in ethanol	max. 1,5 %
pH (5%, H ₂ O)	min. 8 max. 10

C, R: 22-31-34-42

**CHROMIUM(VI) OXIDE PURE G00278**

Chemical formula	CrO ₃
CAS	1333-82-0
UN number	UN 1463
EINECS	215-607-8
Molecular Weight	99,99 g/mol
Appearance	brown-red or violet crystals or flakes
Assay	min. 98,5 %
Substances insoluble in water	max. 0,01 %
Chlorides (Cl)	max. 0,005 %
Sulfates (SO ₄)	max. 0,06 %
Substances precipitating by NH ₄ OH	max. 0,06 %
Sodium, potassium, calcium, magnesium (Na+K+Ca+Mg)	max. 0,1 %

O, T+, N, R: 45-46-9-24/25-26-35-42/43-48/23-62-50/53

**CHROMIUM(VI) OXIDE P.A. A00278**

Chemical formula	CrO ₃
CAS	1333-82-0
UN number	UN 1463
EINECS	215-607-8
Molecular Weight	99,99 g/mol
Appearance	brown-red or violet crystals
Assay	min. 99 %
Substances insoluble in water	max. 0,004 %
Chlorides (Cl)	max. 0,002 %
Sulfates (SO ₄)	max. 0,03 %
Substances precipitating by NH ₄ OH	max. 0,03 %
Sodium, potassium, calcium, magnesium (Na+K+Ca+Mg)	max. 0,06 %

O, T+, N, R: 45-46-9-24/25-26-35-42/43-48/23-62-50/53

**CHROMOTROPIC ACID DISODIUM SALT DIHYDRATE P.A. A00600**

Chemical formula	C ₁₀ H ₈ Na ₂ O ₆ S ₂ · 2H ₂ O
CAS	5808-22-0
EINECS	204-972-9
Molecular Weight	400,30 g/mol
Appearance	grey-brown powder
pH (5%, H ₂ O)	min. 3 max. 3,5
Sensitivity to formaldehyde	min. 0,00004 g/ml
Sensitivity to ions of titanium	min. 0,000005 g/ml
Residue on ignition (as Na ₂ SO ₄)	min. 34,5 max. 36 %

COBALT(II) NITRATE HEXAHYDRATE P.A. A00549

Chemical formula	Co(NO ₃) ₂ · 6H ₂ O
Density	1,87 g/cm ³
CAS	10026-22-9
UN number	UN 1477
EINECS	233-402-1
Molecular Weight	291,04 g/mol
Appearance	red to brownish crystalline powder
Assay	min. 99 %
Substances insoluble in water	max. 0,005 %
Chlorides (Cl)	max. 0,005 %
Sulfates (SO ₄)	max. 0,005 %
Heavy metals (as Cu)	max. 0,001 %
Zinc (Zn)	max. 0,005 %
Nickel (Ni)	max. 0,05 %
Iron (Fe)	max. 0,001 %

Xn, R: 22-40-43

**COLLODION 4% PURE G00556**

Density	0,75 g/cm ³
UN number	UN 2059
Assay	min. 3,8 max. 4,2 %
Free acids	passes test

F+, Xn, R: 12-19-22-66-67

**COPPER(I) CHLORIDE P.A. A00774**

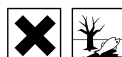
Chemical formula	CuCl
CAS	7758-89-6
UN number	UN 2802
EINECS	231-842-9
Molecular Weight	98,99 g/mol
Appearance	grey-white powder
Assay	min. 97 %
Substances insoluble in acids	max. 0,01 %
Sulfates (SO ₄)	max. 0,1 %
Arsenic (As)	max. 0,001 %
Potassium (K)	max. 0,02 %
Sodium (Na)	max. 0,05 %
Calcium (Ca)	max. 0,01 %
Iron (Fe)	max. 0,002 %

Xn, N, R: 22-50/53

**COPPER(II) ACETATE MONOHYDRATE PURE G00782**

Chemical formula	C ₄ H ₆ CuO ₂ · H ₂ O
CAS	6046-93-1
UN number	UN 3077
EINECS	205-553-3
Molecular Weight	199,65 g/mol
Appearance	dark-green crystals
Assay	min. 98 %
Substances insoluble in water	max. 0,02 %
Chlorides (Cl)	max. 0,005 %
Sulfates (SO ₄)	max. 0,03 %
Lead (Pb)	max. 0,01 %
Potassium (K)	max. 0,05 %
Sodium (Na)	max. 0,05 %
Calcium (Ca)	max. 0,05 %
Iron (Fe)	max. 0,01 %

Xn, N, R: 22-41-50/53

**COPPER(II) ACETATE MONOHYDRATE (ACS) P.A. A00782**

Chemical formula	C ₄ H ₆ CuO ₂ · H ₂ O
CAS	6046-93-1
UN number	UN 3077
EINECS	205-553-3
Molecular Weight	199,65 g/mol
Appearance	dark-green crystals
Assay (iodometric)	min. 99 max. 102 %
Substances insoluble in water	max. 0,01 %
pH (5%, H ₂ O)	min. 5,0 max 5,5
Chlorides (Cl)	max. 0,003 %
Sulfates (SO ₄)	max. 0,005 %
Magnesium (Mg)	max. 0,002 %
Nickel (Ni)	max. 0,01 %
Lead (Pb)	max. 0,005 %
Potassium (K)	max. 0,01 %
Sodium (Na)	max. 0,01 %
Calcium (Ca)	max. 0,005 %
Iron (Fe)	max. 0,002 %

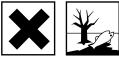
Xn, N, R: 22-41-50/53



COPPER(II) NITRATE TRIHYDRATE PURE G00777

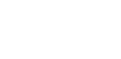
Chemical formula	Cu(NO ₃) ₂ · 3H ₂ O
CAS	10031-43-3
UN number	UN 1477
EINECS	221-838-5
Molecular Weight	241,6 g/mol
Appearance	blue crystals
Assay (iodometric)	min. 99 %
Substances insoluble in water	max. 0,01 %
Chlorides (Cl)	max. 0,005 %
Sulfates (SO ₄)	max. 0,02 %
Sodium (Na)	max. 0,05 %
Potassium (K)	max. 0,05 %
Calcium (Ca)	max. 0,05 %
Iron (Fe)	max. 0,02 %

Xn , N, R: 22-36/38-50/53

**COPPER(II) SULFATE ANHYDROUS PURE** G00785

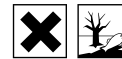
Chemical formula	CuSO ₄
CAS	7758-98-7
UN number	UN 3077
Molecular Weight	159,6 g/mol
Appearance	greyish-white amorphous powder
Assay (iodometric)	min. 97,5 %
Substances insoluble in water	max. 0,02 %
Substances not precipitated by hydrogen sulfide (as SO ₄)	max. 0,3 %
Iron (Fe)	max. 0,04 %

Xn , N, R: 22-36/38-50/53

**COPPER(II) NITRATE TRIHYDRATE (ACS) P.A.** A00777

Chemical formula	Cu(NO ₃) ₂ · 3H ₂ O
CAS	10031-43-3
UN number	UN 1477
EINECS	221-838-5
Molecular Weight	241,6 g/mol
Appearance	blue crystals
Assay (iodometric)	min. 99 %
pH (5%, H ₂ O)	min. 2,8
Substances insoluble in water	max. 0,005 %
Chlorides (Cl)	max. 0,002 %
Sulfates (SO ₄)	max. 0,01 %
Antimony (Sb)	max. 0,001 %
Arsenic (As)	max. 0,0001 %
Chromium(Cr)	max. 0,003 %
Zinc (Zn)	max. 0,03 %
Cadmium (Cd)	max. 0,005 %
Cobalt (Co)	max. 0,001 %
Magnesium (Mg)	max. 0,002 %
Manganese (Mn)	max. 0,001 %
Nickel (Ni)	max. 0,01 %
Lead (Pb)	max. 0,001 %
Potassium (K)	max. 0,005 %
Mercury (Hg)	max. 0,001 %
Sodium (Na)	max. 0,005 %
Strontium (Sr)	max. 0,002 %
Titanium (Ti)	max. 0,001 %
Calcium (Ca)	max. 0,005 %
Vanadium (V)	max. 0,001 %
Iron (Fe)	max. 0,005 %

Xn , N, R: 22-36/38-50/53

**COPPER(II) SULFATE ANHYDROUS P.A.** A00785

Chemical formula	CuSO ₄
CAS	7758-98-7
UN number	UN 3077
Molecular Weight	159,6 g/mol
Appearance	greyish-white amorphous powder
Assay (iodometric)	min. 98 %
pH (5%, H ₂ O)	min. 3,5 max. 4,5
Substances insoluble in water	max. 0,01 %
Loss on drying (250°C)	max. 0,5 %
Substances not precipitated by hydrogen sulfide (as SO ₄)	max. 0,15 %
Nitrogen (N)	max. 0,005 %
Chlorides (Cl)	max. 0,002 %
Arsenic (As)	max. 0,0001 %
Zinc (Zn)	max. 0,05 %
Magnesium (Mg)	max. 0,005 %
Nickel (Ni)	max. 0,005 %
Lead (Pb)	max. 0,01 %
Potassium (K)	max. 0,005 %
Sodium (Na)	max. 0,01 %
Calcium (Ca)	max. 0,01 %
Iron (Fe)	max. 0,01 %

COPPER(II) SULFATE PENTAHYDRATE PURE G00784

Chemical formula	CuSO ₄ · 5H ₂ O
CAS	7758-99-8
UN number	UN 3077
EINECS	231-847-6
Molecular Weight	249,68 g/mol
Appearance	blue crystals
Assay	min. 98,5 %
Substances insoluble in H ₂ SO ₄	max. 0,01 %
Nitrogen (N)	max. 0,005 %
Chlorides (Cl)	max. 0,005 %
Sodium (Na)	max. 0,05 %
Potassium (K)	max. 0,05 %
Calcium (Ca)	max. 0,05 %
Iron (Fe)	max. 0,02 %

Xn , N, R: 22-36/38-50/53

**COPPER(II) SULFATE PENTAHYDRATE (ACS) P.A.** A00784

Chemical formula	CuSO ₄ · 5H ₂ O
CAS	7758-99-8
UN number	UN 3077
EINECS	231-847-6
Molecular Weight	249,68 g/mol
Appearance	blue crystals
Assay (iodometric)	min. 99,5 max. 102 %
Substances insoluble in H ₂ SO ₄	max. 0,005 %
pH (5%, H ₂ O)	min. 3,8
Chlorides (Cl)	max. 0,001 %
Nitrogen (N)	max. 0,001 %
Arsenic (As)	max. 0,0001 %
Chromium(Cr)	max. 0,0005 %
Zinc (Zn)	max. 0,03 %
Cadmium (Cd)	max. 0,001 %
Cobalt (Co)	max. 0,001 %
Silicon (Si)	max. 0,0005 %
Magnesium (Mg)	max. 0,002 %
Manganese (Mn)	max. 0,0005 %
Nickel (Ni)	max. 0,005 %
Lead (Pb)	max. 0,005 %
Potassium (K)	max. 0,001 %
Mercury (Hg)	max. 0,0005 %
Sodium (Na)	max. 0,005 %
Strontium (Sr)	max. 0,0005 %
Titanium (Ti)	max. 0,0005 %
Vanadium (V)	max. 0,0005 %
Calcium (Ca)	max. 0,005 %
Iron (Fe)	max. 0,003 %

Xn , N, R: 22-36/38-50/53

**DI-AMMONIUM OXALATE MONOHYDRATE P.A.** A00338

Chemical formula	(NH ₄) ₂ C ₂ O ₄ · H ₂ O
CAS	6009-70-7
UN number	UN 2811
EINECS	214-202-3
Molecular Weight	142,11 g/mol
Appearance	colourless crystals
Assay	min. 99,5 %
Substances insoluble in water	max. 0,005 %
Residue on ignition (as SO ₄)	max. 0,02 %
Chlorides (Cl)	max. 0,001 %
Sulfates (SO ₄)	max. 0,005 %
Heavy metals (as Pb)	max. 0,001 %
Iron (Fe)	max. 0,0005 %

Xn , R: 21/22



DICHLOROMETHANE (ACS) P.A. A00346

Chemical formula	CH ₂ Cl ₂
Density	1,32 g/cm ³
CAS	75-09-2
UN number	UN 1593
EINECS	200-838-9
Molecular Weight	84,93 g/mol
Appearance	colourless, clear liquid
Assay	min. 99,5 %
Colour	max. 10 Hazen
Water (KF)	max. 0,02 %
Acidity	max. 0,0003 meq/g
Evaporation residue	max. 0,002 %
Free halides	passes test

Xn, R: 40

**DICHLOROMETHANE PURE G00346**

Chemical formula	CH ₂ Cl ₂
Density	1,32 g/cm ³
CAS	75-09-2
UN number	UN 1593
EINECS	200-838-9
Molecular Weight	84,93 g/mol
Appearance	colourless, clear liquid
Assay	min. 99 %
Colour	max. 20 Hazen
Water (KF)	max. 0,05 %
Free acids (as HCl)	max. 0,001 %
Evaporation residue	max. 0,002 %

Xn, R: 40

**DI-POTASSIUM HYDROGEN PHOSPHATE P.A. A00371**

Chemical formula	K ₂ HPO ₄
CAS	7758-11-4
EINECS	231-834-5
Molecular Weight	174,18 g/mol
Appearance	colourless crystals or crystalline powder
Assay	min. 99 %
Substances insoluble in water	max. 0,01 %
Loss on drying	max. 1 %
pH (5%, H2O)	min. 8,5 max. 9,6
Nitrogen (N)	max. 0,002 %
Chlorides (Cl)	max. 0,005 %
Sulfates (SO4)	max. 0,005 %
Heavy metals (as Pb)	max. 0,001 %
Arsenic (As)	max. 0,0002 %
Sodium (Na)	max. 0,5 %
Iron (Fe)	max. 0,001 %

DI-SODIUM HYDROGEN PHOSPHATE ANHYDROUS P.A. A00385

Chemical formula	Na ₂ HPO ₄
CAS	7558-79-4
EINECS	231-448-7
Molecular Weight	141,96 g/mol
Appearance	white powder
Assay	min. 99 %
pH (5%, H2O)	min. 8,9 max. 9,2
Loss on drying (105°C, 2 h)	max. 0,2 %
Substances insoluble in water	max. 0,01 %
Nitrogen (N)	max. 0,002 %
Chlorides (Cl)	max. 0,001 %
Sulfates (SO4)	max. 0,005 %
Zinc (Zn)	max. 0,001 %
Copper (Cu)	max. 0,001 %
Lead (Pb)	max. 0,001 %
Potassium (K)	max. 0,01 %
Iron (Fe)	max. 0,001 %

DI-SODIUM HYDROGEN PHOSPHATE DIHYDRATE P.A. A00384

Chemical formula	Na ₂ HPO ₄ · 2H ₂ O
CAS	10028-24-7
EINECS	231-448-7
Molecular Weight	177,99 g/mol
Appearance	white crystals or crystalline powder
Assay	min. 99 max. 101 %
Substances insoluble in water	max. 0,005 %
pH (5%, H2O)	min. 8,9 max. 9,2
Loss on drying (130°C)	min. 19,5 max. 21 %
Chlorides (Cl)	max. 0,001 %
Sulfates (SO4)	max. 0,005 %
Heavy metals (as Pb)	max. 0,001 %
Zinc (Zn)	max. 0,001 %
Copper (Cu)	max. 0,001 %
Potassium (K)	max. 0,005 %
Iron (Fe)	max. 0,001 %

DI-SODIUM HYDROGEN PHOSPHATE DODECAHYDRATE P.A. A00383

Chemical formula	Na ₂ HPO ₄ · 12H ₂ O
CAS	10039-32-4
EINECS	231-448-7
Molecular Weight	358,14 g/mol
Appearance	colourless crystals or crystalline powder
Assay	min. 99 max. 102 %
Substances insoluble in water	max. 0,005 %
pH (5%, H2O)	min. 8,9 max. 9,3
Nitrogen (N)	max. 0,001 %
Chlorides (Cl)	max. 0,001 %
Sulfates (SO4)	max. 0,005 %
Heavy metals (as Pb)	max. 0,001 %
Arsenic (As)	max. 0,0001 %
Potassium (K)	max. 0,03 %
Iron (Fe)	max. 0,001 %

DI-SODIUM OXALATE P.A. A00375

Chemical formula	C ₂ Na ₂ O ₄ ; NaOCCOONa
CAS	62-76-0
UN number	UN 2811
EINECS	200-550-3
Molecular Weight	134,01 g/mol
Appearance	white, crystalline powder
Assay	min. 99,5 %
Loss on drying (105°C)	max. 0,1 %
pH (3%, H2O)	min. 7 max. 8,5
Nitrogen (N)	max. 0,001 %
Chlorides (Cl)	max. 0,002 %
Sulfates (SO4)	max. 0,002 %
Zinc (Zn)	max. 0,0005 %
Cadmium (Cd)	max. 0,0005 %
Copper (Cu)	max. 0,0005 %
Lead (Pb)	max. 0,0005 %
Potassium (K)	max. 0,005 %
Iron (Fe)	max. 0,0005 %

Xn, R: 21/22

**DISODIUM VERSEDATE DIHYDRATE PURE G00380**

Chemical formula	C ₁₀ H ₁₄ N ₂ Na ₂ O ₈ · 2H ₂ O
CAS	6381-92-6
EINECS	205-358-3
Molecular Weight	372,24 g/mol
Appearance	white, crystalline powder
Assay	min. 98,5 max. 100,5 %
Substances insoluble in water	max. 0,02 %
pH (5%, H2O)	min. 4 max. 5
Chlorides (Cl)	max. 0,01 %
Sulfates (SO4)	max. 0,01 %
Copper (Cu)	max. 0,002 %
Lead (Pb)	max. 0,005 %
Iron (Fe)	max. 0,001 %

DISODIUM VERSEDATE DIHYDRATE P.A. A00380

Chemical formula	C ₁₀ H ₁₄ N ₂ Na ₂ O ₈ · 2H ₂ O
CAS	6381-92-6
EINECS	205-358-3
Molecular Weight	372,24 g/mol
Appearance	white, crystalline powder
Assay	min. 99 max. 100,5 %
Substances insoluble in water	max. 0,005 %
pH (5%, H2O)	min. 4 max. 5
Chlorides (Cl)	max. 0,004 %
Sulfates (SO4)	max. 0,005 %
Copper (Cu)	max. 0,001 %
Lead (Pb)	max. 0,001 %
Iron (Fe)	max. 0,0005 %

EKO-HIGROSORB X01808

Bulk density	min. 650 max. 850 g/l
Moisture (150°C, 3h)	max. 2 %
Granulation	min. 2 max. 7 mm
Ability of water adsorption (24 hours at 80% relative humidity)	min. 15 %

ETHANOLAMINE PURE G00409

Chemical formula	C ₂ H ₇ NO
Density	1,02 g/cm ³
CAS	141-43-5
UN number	UN 2491
EINECS	205-483-3
Molecular Weight	61,08 g/mol
Appearance	colourless or light-yellow liquid
Assay	min. 98 max. 107 %
Density (20°C)	min. 1,014 max. 1,02 g/cm ³
Refractive index (20°C)	min. 1,453 max. 1,455
Residue on ignition (as SO ₄)	max. 0,1 %

ETHANOLAMINE P.A. A00409

Chemical formula	C ₂ H ₇ NO
Density	1,02 g/cm ³
CAS	141-43-5
UN number	UN 2491
EINECS	205-483-3
Molecular Weight	61,08 g/mol
Appearance	colourless or light-yellow liquid
Assay	min. 99 max. 100,5 %
Density (20°C)	min. 1,015 max. 1,018 g/cm ³
Refractive index (20°C)	min. 1,4535 max. 1,4545
Residue on ignition (as SO ₄)	max. 0,05 %
Heavy metals (as Pb)	max. 0,001 %
Iron (Fe)	max. 0,001 %

C, R: 20/21/22-34



C, R: 20/21/22-34

**ETHYL ALCOHOL 96% PURE G00423**

Chemical formula	C ₂ H ₅ OH
Density	0,81 g/cm ³
CAS	64-17-5
UN number	UN 1170
EINECS	200-578-6
Molecular Weight	46,07 g/mol
Appearance	colourless, clear liquid
Assay of ethyl alcohol	min. 96 %
Density (20°C)	max. 0,808 g/cm ³
Refractive index (20°C)	max. 1,364
Acids (as CH ₃ COOH)	max. 0,003 %
Aldehydes (as CH ₃ CHO)	max. 0,001 %
Methanol	max. 0,1 %
Higher alcohols (as amyl alcohol)	max. 0,001 %
Discolouration time of solution of KMnO ₄	min. 5 min
Miscibility with water	passes test
Evaporation residue	max. 0,001 %
Furfural presence test	passes test
Ketones presence test	passes test
Organic impurities	max. 0,5 %
Heavy metals (as Pb)	max. 0,0001 %

F, R: 11

**ETHYL ALCOHOL 96% P.A. A00423**

Chemical formula	C ₂ H ₅ OH
Density	0,81 g/cm ³
CAS	64-17-5
UN number	UN 1170
EINECS	200-578-6
Molecular Weight	46,07 g/mol
Appearance	colourless, clear liquid
Assay of ethyl alcohol	min. 96 % (V/V)
Density (20°C)	max. 0,808 g/cm ³
Refractive index (20°C)	max. 1,364
Acids (as CH ₃ COOH)	max. 0,002 %
Aldehydes (as CH ₃ CHO)	max. 0,0005 %
Methanol	max. 0,05 %
Higher alcohols (as amyl alcohol)	max. 0,001 %
Discolouration time of solution of KMnO ₄	min. 10 min
Miscibility with water	passes test
Evaporation residue	max. 0,001 %
Furfural presence test	passes test
Ketones presence test	passes test
Organic impurities	max. 0,2 %
Heavy metals (as Pb)	max. 0,0001 %

F, R: 11

**ETHYL ALCOHOL 99,8 % (ISO) SPECIALLY PURE P00424**

Chemical formula	C ₂ H ₅ OH
Density	0,79 g/cm ³
CAS	64-17-5
UN number	UN 1170
EINECS	200-578-6
Molecular Weight	46,07 g/mol
Appearance	colourless, clear liquid
Assay of ethyl alcohol	min. 99,8 %
Colour	max. 10 Hazen
Density (20°C)	min. 0,789 max. 0,791 g/cm ³
Water	max. 0,2 %
Acidity	max. 0,0005 meq/g
Alkalinity	max. 0,0002 meq/g
Aldehydes (as CH ₃ CHO)	max. 0,001 %
Higher alcohols (as amyl alcohol)	max. 0,01 %
Discolouration time of solution of KMnO ₄	min. 10 min
Methanol	max. 0,05 %
Evaporation residue	max. 0,001 %
2-Propanol	max. 0,01 %
Test with H ₂ SO ₄	passes test
Carbonyl compounds (as CO)	max. 0,003 %
Heavy metals (as Pb)	max. 0,0001 %
Solubility in water	passes test
Acetone, isopropyl alcohol	passes test

F, R: 11

**ETHYL ALCOHOL ABSOLUT 99,8% PURE G00424**

Chemical formula	C ₂ H ₅ OH
Density	0,79 g/cm ³
CAS	64-17-5
UN number	UN 1170
EINECS	200-578-6
Molecular Weight	46,07 g/mol
Appearance	colourless, clear liquid
Assay of ethyl alcohol	min. 99,8 %
Colour	max. 10 Hazen
Density (20°C)	min. 0,789 max. 0,791 g/cm ³
Water	max. 0,2 %
Acids (as CH ₃ COOH)	max. 0,001 %
Alkalies (as NH ₃)	max. 0,0003 %
Aldehydes (as CH ₃ CHO)	max. 0,001 %
Higher alcohols (as amyl alcohol)	max. 0,01 %
Discolouration time of solution of KMnO ₄	min. 5 min
Methanol	max. 0,05 %
Evaporation residue	max. 0,001 %
Test with H ₂ SO ₄	passes test
Carbonyl compounds (as CO)	max. 0,008 %
Heavy metals (as Pb)	max. 0,0001 %

F, R: 11

**ETHYL ALCOHOL ABSOLUT 99,8% P.A. A00424**

Chemical formula	C ₂ H ₅ OH
Density	0,79 g/cm ³
CAS	64-17-5
UN number	UN 1170
EINECS	200-578-6
Molecular Weight	46,07 g/mol
Appearance	colourless, clear liquid
Assay of ethyl alcohol	min. 99,8 %
Colour	max. 10 Hazen
Density (20°C)	min. 0,789 max. 0,791 g/cm ³
Water	max. 0,2 %
Acids (as CH ₃ COOH)	max. 0,001 %
Alkalies (as NH ₃)	max. 0,0003 %
Aldehydes (as CH ₃ CHO)	max. 0,0008 %
Higher alcohols (as amyl alcohol)	max. 0,001 %
Discolouration time of solution of KMnO ₄	min. 10 min
Methanol	max. 0,01 %
Evaporation residue	max. 0,001 %
Test with H ₂ SO ₄	passes test
Carbonyl compounds (as CO)	max. 0,003 %
Heavy metals (as Pb)	max. 0,0001 %

F, R: 11

**ETHYLENE GLYCOL P.A. A00470**

Chemical formula	C ₂ H ₄ O ₂
CAS	107-21-1
EINECS	203-473-3
Molecular Weight	62,07 g/mol
Appearance	colourless, oily liquid
Assay (GC)	min. 99 %
Density (20°C)	min. 1,113 max. 1,115 g/cm ³
Water	max. 0,2 %
Free acids (as CH ₃ COOH)	max. 0,001 %
Residue on ignition	max. 0,005 %
Chlorides (Cl)	max. 0,0005 %
Sulfates (SO ₄)	max. 0,002 %
Heavy metals (as Pb)	max. 0,0001 %
Iron (Fe)	max. 0,00005 %

T, R: 23/24/25-34-40-43-68



ETHYLENEDIAMINETETRAACETIC ACID DIPOTASSIUM SALT DIHYDRATE P.A. A00369	
Chemical formula	$C_{10}H_{16}N_2K_2O_8 \cdot 2H_2O$
CAS	25102-12-9
EINECS	217-895-0
Molecular Weight	404,47 g/mol
Appearance	white, crystalline powder
Assay	min. 99 %
pH (5%, H ₂ O)	min. 4 max. 6
Substances insoluble in water	max. 0,005 %
Iron (Fe)	max. 0,01 %
Heavy metals (as Pb)	max. 0,005 %

ETHYLENEDIAMINETETRAACETIC ACID P.A. A00709	
Chemical formula	$C_{10}H_{16}N_2O_8$
CAS	60-00-4
EINECS	200-449-4
Molecular Weight	292,25 g/mol
Appearance	white, crystalline powder
Assay	min. 99 %
Residue on ignition (as SO ₄)	max. 0,1 %
Chlorides (Cl)	max. 0,005 %
Magnesium (Mg)	max. 0,0005 %
Copper (Cu)	max. 0,001 %
Nickel (Ni)	max. 0,001 %
Lead (Pb)	max. 0,001 %
Calcium (Ca)	max. 0,002 %
Iron (Fe)	max. 0,001 %

ETHYLENEDIAMMONIUM SULFATE PURE G02474	
Chemical formula	$C_2H_{10}N_2O_6S$
CAS	22029-36-3
EINECS	244-733-6
Molecular Weight	158,18 g/mol
Assay	min. 98 %

Xi, R: 36-52/53



FORMALDEHYDE 36-38% (ACS) P.A. A00447	
Density	1,09 g/cm ³
CAS	50-00-0
UN number	UN 2209
Appearance	colourless, clear liquid
Assay	min. 36 max. 38 %
Colour	max. 10 Hazen
Density (20°C)	min. 1,08
	max. 1,09 g/cm ³
Organic acids (as HCOOH)	max. 0,03 %
Residue on ignition (as SO ₄)	max. 0,002 %
Chlorides (Cl)	max. 0,0001 %
Sulfates (SO ₄)	max. 0,002 %
Heavy metals (as Pb)	max. 0,0002 %
Iron (Fe)	max. 0,0001 %

FORMALDEHYDE 36-38% PURE G00447	
Density	1,09 g/cm ³
CAS	50-00-0
UN number	UN 2209
Appearance	colourless, clear liquid
Assay	min. 36 max. 38 %
Density	min. 1,08
	max. 1,09 g/cm ³
Organic acids (as HCOOH)	max. 0,05 %
Residue on ignition (as SO ₄)	max. 0,005 %
Chlorides (Cl)	max. 0,0005 %
Sulfates (SO ₄)	max. 0,005 %
Heavy metals (as Pb)	max. 0,0005 %
Iron (Fe)	max. 0,0005 %

FORMALDEHYDE SOLUTION 10% SPECIALLY PURE P01421	
Density	1,02 g/cm ³
CAS	50-00-0
Appearance	colourless, clear liquid
Assay	min. 9 max. 11 %
Acidity	passes test
Heavy metals (as Pb)	passes test

T, R: 23/24/25-34-40-43-68



T, R: 23/24/25-34-40-43-68



Xn, R: 20/21/22-36/37/38-40-43-68



FORMALDEHYDE SOLUTION 20% SPECIALLY PURE P00446	
Density	1,04 g/cm ³
CAS	50-00-0
Appearance	colourless, clear liquid
Assay	min. 19 max. 21 %
Acidity	passes test
Heavy metals (as Pb)	passes test

GLYCEROL ANHYDROUS PURE G00461	
Chemical formula	$C_3H_8O_3; (HOCH_2)_2CHOH$
Density	1,26 g/cm ³
CAS	56-81-5
EINECS	200-289-5
Molecular Weight	92,10 g/mol
Appearance	colourless liquid
Assay	min. 97,5 max. 101 %
Water	max. 1,5 %
Acids (as CH ₃ COOH)	max. 0,005 %
Aldehydes	passes test
Esters	max. 0,1 %
Sulfate ash	max. 0,01 %
Chlorides (Cl)	max. 0,005 %
Heavy metals (as Pb)	max. 0,001 %

GLYCEROL ANHYDROUS P.A. A00461	
Chemical formula	$C_3H_8O_3; (HOCH_2)_2CHOH$
Density	1,26 g/cm ³
CAS	56-81-5
EINECS	200-289-5
Molecular Weight	92,10 g/mol
Appearance	colourless liquid
Assay	min. 99,5 max. 100 %
Water	max. 0,5 %
Acids (as CH ₃ COOH)	max. 0,001 %
Aldehydes and reducing substances	passes test
Esters (as glyceril tributryrate)	max. 0,08 %
Organic halogen derivative	max. 0,0005 %
Sulfate ash	max. 0,005 %
Chlorides (Cl)	max. 0,0002 %
Sulfates (SO ₄)	max. 0,0005 %
Ammonia salts (NH ₄)	max. 0,002 %
Heavy metals (as Pb)	max. 0,0001 %
Arsenic (As)	max. 0,00004 %
Calcium (Ca)	max. 0,001 %
Iron (Fe)	max. 0,00005 %

Xn, R: 20/21/22-36/37/38-40-43-68



HYDRAZINE HYDRATE SOLUTION 40% PURE G00499

Density	1,01 g/cm ³
CAS	7803-57-8
UN number	UN 2030
Appearance	colourless or yellowish liquid
Assay	min. 38 max. 42 %
Evaporation residue	max. 0,1 %

T, N, R: 45-23/24/25-34-43-50/53



HYDROGEN PEROXIDE 30% X01365

Chemical formula	H ₂ O ₂
Density	1,11 g/cm ³
CAS	7722-84-1
UN number	UN 2014
EINECS	231-765-0
Molecular Weight	34,01 g/mol
Appearance	colourless, transparent liquid
Assay	min. 29,0 max. 31,0 %
Solubility	passes test
Identity	passes test
Acidity	passes test
Organic stabilizers	max. 0,05 %
Non-volatile substances	max. 0,2 %

Xn, R: 22-41



HYDROGEN PEROXIDE 30% PURE G01365

Chemical formula	H ₂ O ₂
Density	1,11 g/cm ³
CAS	7722-84-1
UN number	UN 2014
EINECS	231-765-0
Molecular Weight	34,01 g/mol
Appearance	colourless, clear liquid
Assay	min. 28 max. 33 %
Free acids (as H ₂ SO ₄)	max. 0,01 %
Evaporation residue	max. 0,01 %
Nitrogen (N)	max. 0,005 %
Chlorides (Cl)	max. 0,001 %
Phosphates (PO ₄)	max. 0,003 %
Sulfates (SO ₄)	max. 0,001 %
Arsenic (As)	max. 0,00005 %
Zinc (Zn)	max. 0,0002 %
Cadmium (Cd)	max. 0,0002 %
Copper (Cu)	max. 0,0002 %
Lead (Pb)	max. 0,0002 %
Iron (Fe)	max. 0,00005 %

Xn, R: 22-41



HYDROGEN PEROXIDE APPROX.30% P.A. A01365

Chemical formula	H ₂ O ₂
Density	1,11 g/cm ³
CAS	7722-84-1
UN number	UN 2014
EINECS	231-765-0
Molecular Weight	34,01 g/mol
Appearance	colourless, clear liquid
Assay	min. 29 max. 33 %
Free acids (as H ₂ SO ₄)	max. 0,005 %
Evaporation residue	max. 0,005 %
Nitrogen (N)	max. 0,005 %
Chlorides (Cl)	max. 0,0005 %
Phosphates (PO ₄)	max. 0,0005 %
Sulfates (SO ₄)	max. 0,0005 %
Arsenic (As)	max. 0,00005 %
Zinc (Zn)	max. 0,0001 %
Cadmium (Cd)	max. 0,0001 %
Cobalt (Co)	max. 0,0001 %
Copper (Cu)	max. 0,0001 %
Nickel (Ni)	max. 0,0001 %
Lead (Pb)	max. 0,0001 %
Iron (Fe)	max. 0,00002 %

Xn, R: 22-41



IODINE CRYST. (ACS) P.A. A00517

Chemical formula	I ₂
CAS	7553-56-2
UN number	UN 3290
EINECS	231-442-4
Molecular Weight	253,81 g/mol
Appearance	dark-violet crystals with metallic lustre
Assay	min. 99,8 %
Evaporation residue	max. 0,01 %
Chlorine and bromine (as Cl)	max. 0,005 %

Xn, N, R: 20/21-50



IODINE CRYST.PURE G00517

Chemical formula	I ₂
CAS	7553-56-2
UN number	UN 3290
EINECS	231-442-4
Molecular Weight	253,81 g/mol
Appearance	dark-violet crystals with metallic lustre
Assay	min. 99,5 %
Evaporation residue	max. 0,02 %
Chlorine and bromine (as Cl)	max. 0,01 %

Xn, N, R: 20/21-50



IRON(II) SULFATE HEPTAHYDRATE P.A. A01372

Chemical formula	FeSO ₄ · 7H ₂ O
CAS	7782-63-0
EINECS	231-753-5
Molecular Weight	278,02 g/mol
Appearance	green-blue crystals
Assay	min. 99,5
Substances not precipitated by NH ₄ OH	max. 0,05 %
Nitrogen (N)	max. 0,001 %
Chlorides (Cl)	max. 5 ppm
Phosphates (PO ₄)	max. 10 ppm
Zinc (Zn)	max. 50 ppm
Copper (Cu)	max. 10 ppm
Lead (Pb)	max. 5 ppm
Iron Fe(III)	max. 100 ppm

Xn, R: 22



IRON(III) CHLORIDE HEXAHYDRATE P.A. A01376

Chemical formula	FeCl ₃ · 6H ₂ O
CAS	10025-77-1
EINECS	231-729-4
Molecular Weight	270,3 g/mol
Appearance	brown-yellow, hygroscopic lumps or granule
Assay	min. 97 max. 102 %
Substances insoluble in HCl	max. 0,05 %
Phosphates (PO ₄)	max. 0,05 %
Sulfates (SO ₄)	max. 0,1 %
Arsenic (As)	max. 0,005 %
Zinc (Zn)	max. 0,05 %
Magnesium (Mg)	max. 0,05 %
Manganese (Mn)	max. 0,1 %
Copper (Cu)	max. 0,01 %
Lead (Pb)	max. 0,01 %
Potassium (K)	max. 0,05 %
Sodium (Na)	max. 0,1 %
Calcium (Ca)	max. 0,05 %
Iron (II)	max. 0,05 %

Xn, R: 22-38-41



IRON(III) SULFATE HYDRATE P.A. A01383

Chemical formula	· j · g · ã · p · A
CAS	· · s · í · IA · ë
EINECS	U · Ü · e · ò · Q
Molecular Weight	U · Ü · R · Ž
Assay [as Fe ₂ (SO ₄) ₃]	U · Ü · 7 · ~
Substances insoluble in water	s6 È
Nitrate (NO ₃)	· ¥ · ò · X · ã
Chlorides (Cl)	· ¥ · ò · X
Copper (Cu)	· ¥ · ò · X · ã
Potassium (K)	· ¥ · ò · X
Sodium (Na)	· ¥ · ò · X
Iron (II)	· ¥ · ò · X

Xn, R: 22



ISOAMYL ALCOHOL PURE G00507

Chemical formula	C ₅ H ₁₂ O; (CH ₃) ₂ CHCH ₂ CH ₂ OH
CAS	123-51-3
UN number	UN 1105
EINECS	204-633-5
Molecular Weight	88,15 g/mol
Appearance	colourless, clear liquid
Assay	min. 98,5 %
Density (20°C)	min. 0,809
	max. 0,812 g/cm ³
Water (KF)	max. 0,3 %
Acids (as CH ₃ COOH)	max. 0,01 %
Assay of furfuryl	max. 0,003 %
Evaporation residue	max. 0,005 %
Test with H ₂ SO ₄	passes test

Xn, R: 10-20-37-66

**ISOAMYL ALCOHOL P.A. A00507**

Chemical formula	C ₅ H ₁₂ O; (CH ₃) ₂ CHCH ₂ CH ₂ OH
Density	0,81 g/cm ³
CAS	123-51-3
UN number	UN 1105
EINECS	204-633-5
Molecular Weight	88,15 g/mol
Appearance	colourless, clear liquid
Assay	min. 99 %
Density (20°C)	min. 0,81
	max. 0,812 g/cm ³
Water (KF)	max. 0,2 %
Acids (as CH ₃ COOH)	max. 0,01 %
Assay of furfuryl	max. 0,0001 %
Evaporation residue	max. 0,003 %
Test with H ₂ SO ₄	passes test

Xn, R: 10-20-37-66

**KJELDAHL TABLETS I X01758**

Tablet weight	min. 3,8 max. 4 g
Copper (II) sulfate CuSO ₄ · 5H ₂ O	min. 0,38 max. 0,42 g

R: 52/53

LEAD(II) ACETATE TRIHYDRATE (ACS) P.A. A00867

Chemical formula	C ₄ H ₆ O ₇ Pb · 3H ₂ O; Pb(CH ₃ COO) ₂ · 3H ₂ O
CAS	6080-56-4
UN number	UN 1616
EINECS	206-104-4
Molecular Weight	379,34 g/mol
Appearance	colourless or white crystals
Assay	min. 99,5 max. 103 %
Substances insoluble in CH ₃ COOH	max. 0,005 %
Nitrate and Nitrite (as NO ₃)	max. 0,002 %
Chlorides (Cl)	max. 0,0005 %
Zinc (Zn)	max. 0,001 %
Cadmium (Cd)	max. 0,001 %
Cobalt (Co)	max. 0,001 %
Magnesium (Mg)	max. 0,005 %
Copper (Cu)	max. 0,001 %
Nickel (Ni)	max. 0,001 %
Potassium (K)	max. 0,005 %
Sodium (Na)	max. 0,01 %
Calcium (Ca)	max. 0,005 %
Iron (Fe)	max. 0,001 %

T, N, R: 61-33-48/22-50/53-62

**LEAD(II) NITRATE P.A. A00863**

Chemical formula	Pb(NO ₃) ₂
CAS	10099-74-8
UN number	UN 1469
EINECS	233-245-9
Molecular Weight	331,21 g/mol
Appearance	white crystals or white, crystalline powder
Assay	min. 99 %
Chlorides (Cl)	max. 0,002 %
Copper (Cu)	max. 0,0005 %
Sodium, potassium (Na+K)	max. 0,05 %
Calcium (Ca)	max. 0,02 %
Iron (Fe)	max. 0,001 %

T, N, R: 61-20/22-33-50/53-62

**MAGNESIUM CHLORIDE HEXAHYDRATE PURE G00740**

Chemical formula	MgCl ₂ · 6 H ₂ O
CAS	7791-18-6
EINECS	232-094-6
Molecular Weight	203,3 g/mol
Appearance	colourless crystals
Assay	min. 98 %
Substances insoluble in water	max. 0,01 %
Free acids (as HCl)	max. 0,0045 %
Nitrogen (N)	max. 0,005 %
Phosphates (PO ₄)	max. 0,002 %
Sulfates (SO ₄)	max. 0,005 %
Heavy metals (as Pb)	max. 0,001 %
Arsenic (As)	max. 0,0001 %
Barium (Ba)	max. 0,005 %
Zinc (Zn)	max. 0,005 %
Potassium (K)	max. 0,02 %
Sodium (Na)	max. 0,01 %
Calcium (Ca)	max. 0,02 %
Iron (Fe)	max. 0,001 %

MAGNESIUM CHLORIDE HEXAHYDRATE P.A. A00740

Chemical formula	MgCl ₂ · 6 H ₂ O
CAS	7791-18-6
EINECS	232-094-6
Molecular Weight	203,3 g/mol
Appearance	colourless crystals
Assay	min. 99 %
Substances insoluble in water	max. 0,005 %
Free acids (as HCl)	max. 0,0009 %
Nitrogen (N)	max. 0,001 %
Phosphates (PO ₄)	max. 0,0005 %
Sulfates (SO ₄)	max. 0,003 %
Heavy metals (as Pb)	max. 0,0005 %
Arsenic (As)	max. 0,00005 %
Barium (Ba)	max. 0,002 %
Zinc (Zn)	max. 0,003 %
Potassium (K)	max. 0,008 %
Sodium (Na)	max. 0,005 %
Calcium (Ca)	max. 0,005 %
Iron (Fe)	max. 0,0005 %

MAGNESIUM NITRATE HEXAHYDRATE P.A. A00738

Chemical formula	Mg(NO ₃) ₂ · 6H ₂ O
CAS	13446-18-9
UN number	UN 1474
EINECS	233-826-7
Molecular Weight	256,41 g/mol
Appearance	colourless crystals
Assay	min. 99 %
Substances insoluble in water	max. 0,005 %
pH (5%, H ₂ O)	min. 4 max. 7
Chlorides (Cl)	max. 0,001 %
Phosphates (PO ₄)	max. 0,0005 %
Sulfates (SO ₄)	max. 0,002 %
Ammonia salts (NH ₄)	max. 0,001 %
Arsenic (As)	max. 0,0001 %
Barium (Ba)	max. 0,002 %
Manganese (Mn)	max. 0,0005 %
Heavy metals (as Pb)	max. 0,0005 %
Potassium (K)	max. 0,005 %
Sodium (Na)	max. 0,005 %
Strontium (Sr)	max. 0,001 %
Calcium (Ca)	max. 0,005 %
Iron (Fe)	max. 0,0005 %

O, R: 8

**MAGNESIUM SULFATE ANHYDROUS PURE G00747**

Chemical formula	MgSO ₄
CAS	7487-88-9
EINECS	231-298-2
Molecular Weight	120,36 g/mol
Appearance	white powder
Assay	min. 98 %
Substances insoluble in water	max. 0,02 %
Loss on ignition	max. 2,5 %
Chlorides (Cl)	max. 0,005 %
Heavy metals (as Pb)	max. 0,002 %
Arsenic (As)	max. 0,0002 %
Manganese (Mn)	max. 0,005 %
Calcium (Ca)	max. 0,1 %
Iron (Fe)	max. 0,002 %

MAGNESIUM SULFATE ANHYDROUS P.A. A00747

Chemical formula	MgSO ₄
CAS	7487-88-9
EINECS	231-298-2
Molecular Weight	120,36 g/mol
Appearance	white powder
Assay	min. 98,5 %
Substances insoluble in water	max. 0,01 %
Loss on ignition	max. 1,5 %
Nitrate (NO ₃)	max. 0,004 %
Chlorides (Cl)	max. 0,001 %
Heavy metals (as Pb)	max. 0,001 %
Arsenic (As)	max. 0,0001 %
Manganese (Mn)	max. 0,002 %
Calcium (Ca)	max. 0,04 %
Iron (Fe)	max. 0,001 %

MAGNESIUM SULFATE HEPTAHYDRATE P.A. A00746

Chemical formula	MgSO ₄ · 7H ₂ O
CAS	10034-99-8
EINECS	231-298-2
Molecular Weight	246,48 g/mol
Appearance	colourless crystals
Assay	min. 99 max. 100,5 %
pH (5%, H ₂ O)	min. 5,5 max. 8
Substances insoluble in water	max. 0,005 %
Chlorides (Cl)	max. 0,002 %
Phosphates (PO ₄)	max. 0,001 %
Heavy metals (as Pb)	max. 0,0005 %
Arsenic (As)	max. 0,0001 %
Manganese (Mn)	max. 0,002 %
Calcium (Ca)	max. 0,02 %
Iron (Fe)	max. 0,0005 %

MANGANESE(II) CHLORIDE TETRAHYDRATE PURE G00757

Chemical formula	MnCl ₂ · 4H ₂ O
Density	2,01 g/cm ³
CAS	13446-34-9
EINECS	231-869-6
Molecular Weight	197,91 g/mol
Appearance	pale pink crystalline powder
Assay	min. 98 %
Substances insoluble in water	max. 0,01 %
Substances reducing KMnO ₄ (as O)	max. 0,001 %
Sulfates (SO ₄)	max. 0,02 %
Zinc (Zn)	max. 0,02 %
Copper (Cu)	max. 0,001 %
Lead (Pb)	max. 0,001 %
Sodium, potassium, calcium, magnesium (Na+K+Ca+Mg)	max. 0,06 %
Iron (Fe)	max. 0,002 %

Xn, R: 22

**MANGANESE(II) CHLORIDE TETRAHYDRATE P.A. A00757**

Chemical formula	MnCl ₂ · 4H ₂ O
Density	2,01 g/cm ³
CAS	13446-34-9
EINECS	231-869-6
Molecular Weight	197,91 g/mol
Appearance	slightly pink crystalline powder
Assay	min. 98,5 %
pH (5%, H ₂ O)	min. 4 max. 6
Substances insoluble in water	max. 0,005 %
Substances reducing KMnO ₄ (as O)	max. 0,0005 %
Sulfates (SO ₄)	max. 0,005 %
Zinc (Zn)	max. 0,005 %
Cadmium (Cd)	max. 0,005 %
Copper (Cu)	max. 0,0005 %
Nickel (Ni)	max. 0,002 %
Lead (Pb)	max. 0,0005 %
Sodium, potassium, calcium, magnesium (Na+K+Ca+Mg)	max. 0,02 %
Iron (Fe)	max. 0,0005 %

Xn, R: 22

**MANGANESE(II) SULFATE MONOHYDRATE (ACS) P.A. A00758**

Chemical formula	Mn SO ₄ · H ₂ O
Density	2,95 g/cm ³
CAS	10034-96-5
UN number	UN 3077
EINECS	232-089-9
Molecular Weight	169,02 g/mol
Appearance	pale pink crystals or crystalline powder
Assay	min. 99 max. 101 %
Loss on ignition	min. 10 max. 12 %
Substances insoluble in water	max. 0,01 %
Substances reducing KMnO ₄ (as O ₂)	passes test
Chlorides (Cl)	max. 0,002 %
Heavy metals (as Pb)	max. 0,001 %
Zinc (Zn)	max. 0,005 %
Magnesium (Mg)	max. 0,005 %
Nickel (Ni)	max. 0,005 %
Potassium (K)	max. 0,01 %
Sodium (Na)	max. 0,05 %
Calcium (Ca)	max. 0,005 %
Iron (Fe)	max. 0,001 %

Xn, N, R: 48/20/22-51/53

**N,N-DIMETHYLANILINE PURE G00810**

Chemical formula	C ₉ H ₁₁ N; C ₆ H ₅ N(CH ₃) ₂
Density	0,96 g/cm ³
CAS	121-69-7
UN number	UN 2253
EINECS	204-493-5
Molecular Weight	121,18 g/mol
Appearance	pale yellow, oily liquid
Assay (GC)	min. 99 %
Density (20°C)	min. 0,955
Boiling point	max. 0,958 g/cm ³
Water	192-194 °C
Aniline and N-metylaniline (GC)	max. 0,2 %
Residue on ignition (as SO ₄)	max. 0,4 %
	max. 0,01 %

T, N, R: 23/24/25-40-51/53

**N,N-DIMETHYLANILINE P.A. A00810**

Chemical formula	C ₉ H ₁₁ N; C ₆ H ₅ N(CH ₃) ₂
Density	0,96 g/cm ³
CAS	121-69-7
UN number	UN 2253
EINECS	204-493-5
Molecular Weight	121,18 g/mol
Appearance	pale yellow, oily liquid
Assay (GC)	min. 99,5 %
Density (20°C)	min. 0,955
Boiling point	max. 0,958 g/cm ³
Water	192-194 °C
Aniline and N-metylaniline (GC)	max. 0,2 %
Residue on ignition (as SO ₄)	max. 0,005 %

T, N, R: 23/24/25-40-51/53

**NICKEL(II) CHLORIDE HEXAHYDRATE PURE G00826**

Chemical formula	NiCl ₂ ·6H ₂ O
CAS	7791-20-0
UN number	UN 3288
EINECS	231-743-0
Molecular Weight	237,71 g/mol
Appearance	green, crystalline powder
Assay	min. 97 %
Zinc (Zn)	max. 0,002 %
Cobalt (Co)	max. 0,02 %
Copper (Cu)	max. 0,002 %
Lead (Pb)	max. 0,005 %
Iron (Fe)	max. 0,005 %

T, N, R: 25-43-50/53

**NINHYDRIN P.A. A00830**

Chemical formula	C ₈ H ₈ O ₄
CAS	485-47-2
EINECS	207-618-1
Molecular Weight	178,15 g/mol
Substances insoluble in water	passes test
Residue on ignition (as SO ₄)	max. 0,1 %
Sensitivity to amine acid	passes test

Xn, R: 22-36/37/38



PARAFFIN 50/52 X00895

Density	0,9 g/cm ³
CAS	8002-74-2
EINECS	232-315-6
Freezing point	min. 50 max. 52 °C

PARAFFIN 52/54 X00896

Density	0,9 g/cm ³
CAS	8002-74-2
EINECS	232-315-6
Freezing point	min. 52 max. 54 °C

PARAFFIN 54/56 X03389

Density (20°C)	0,9 g/cm ³
CAS	8002-74-2
EINECS	232-315-6
Freezing point	min. 54 max. 56 °C

**PARAFFIN WAX FOR MICROSCOPY
MELTING POINT 56°C** X03390

Density (20°C)	0,9 g/cm ³
CAS	8002-74-2
EINECS	232-315-6
Melting point	min. 55 max. 57 °C

PARAFFIN 56/58 X00869

Density (20°C)	0,9 g/cm ³
CAS	8002-74-2
EINECS	232-315-6
Freezing point	min. 56 max. 58 °C

PARAFFIN 58/60 X00897

Density (20°C)	0,9 g/cm ³
CAS	8002-74-2
EINECS	232-315-6
Freezing point	min. 58 max. 60 °C

PHENOL (ACS) P.A. A00432

Chemical formula	C ₆ H ₆ O; C ₆ H ₅ OH
CAS	108-95-2
UN number	UN 1671
EINECS	203-632-7
Molecular Weight	94,11 g/mol
Appearance	colourless or pink crystals or mass
Assay	min. 99 %
Clarity	passes test
Freezing point	min. 40,5 °C
Water (KF)	max. 0,5 %
Evaporation residue	max. 0,01 %
Chlorides (Cl)	max. 0,001 %
Iron (Fe)	max. 0,0001 %

**PHENYLHYDRAZINE
HYDROCHLORIDE P.A.** A00436

Chemical formula	C ₆ H ₅ CIN ₂ ; C ₆ H ₅ NHNH ₂ .HCl
CAS	59-88-1
UN number	UN 2811
EINECS	200-444-7
Molecular Weight	144,61 g/mol
Appearance	colourless or pale-cream crystals or powder
Assay (acidimetry)	min. 99 %
Substances insoluble in water	passes test
Residue on ignition (as SO ₄)	max. 0,05 %
Sulfates (SO ₄)	max. 0,01 %
Iron (Fe)	max. 0,001 %

POTASSIUM BROMIDE P.A. A00979

Chemical formula	KBr
CAS	7758-02-3
EINECS	231-830-3
Molecular Weight	119,01 g/mol
Appearance	white, crystalline powder
Assay	min. 99,5 %
Loss on drying	max. 0,5 %
Substances insoluble in water	max. 0,005 %
pH (5%, H ₂ O)	min. 5 max. 8,8
Nitrogen (N)	max. 0,001 %
Bromate (BrO ₃)	max. 0,001 %
Chlorides (Cl)	max. 0,1 %
Iodides (I)	max. 0,02 %
Sulfates (SO ₄)	max. 0,005 %
Heavy metals (as Pb)	max. 0,0005 %
Barium (Ba)	max. 0,002 %
Magnesium (Mg)	max. 0,001 %
Sodium (Na)	max. 0,05 %
Calcium (Ca)	max. 0,001 %
Iron (Fe)	max. 0,0005 %

T, C, R: 23/24/25-34-48/20/21/22-68

T, N, R: 45-23/24/25-36/38-43-48/23/24/25-68-50



POTASSIUM CARBONATE ANHYDROUS P.A. A01024

Chemical formula	K ₂ CO ₃
CAS	584-08-7
EINECS	209-529-3
Molecular Weight	138,21 g/mol
Appearance	white powder
Assay	min. 99 %
Substances insoluble in water	max. 0,01 %
Loss on ignition	max. 0,8 %
Nitrogen (N)	max. 0,001 %
Chlorides and Chlorates (as Cl)	max. 0,002 %
Phosphates (PO ₄)	max. 0,001 %
Silicates (as SiO ₂)	max. 0,004 %
Sulfates (SO ₄)	max. 0,004 %
Heavy metals (as Pb)	max. 0,0005 %
Arsenic (As)	max. 0,00005 %
Aluminium (Al)	max. 0,001 %
Magnesium and Calcium (Mg+Ca)	max. 0,008 %
Iron (Fe)	max. 0,001 %

Xi, R: 36/37/38

**POTASSIUM CHLORATE SPECIALLY PURE P00983**

Chemical formula	KClO ₃ ; ClKO ₃
CAS	3811-04-9
UN number	UN 1485
EINECS	233-289-7
Molecular Weight	122,55 g/mol
Appearance	colourless, shiny crystals
Assay	min. 99,5 %
Substances insoluble in water	max. 0,005 %
Nitrogen (N)	max. 0,0005 %
Bromate (BrO ₃)	max. 0,005 %
Chlorides (Cl)	max. 0,002 %
Sulfates (SO ₄)	max. 0,002 %
Heavy metals (as Pb)	max. 0,0005 %
Arsenic (As)	max. 0,00005 %
Magnesium (Mg)	max. 0,001 %
Sodium (Na)	max. 0,005 %
Calcium (Ca)	max. 0,002 %
Iron (Fe)	max. 0,0003 %

O, Xn, N, R: 9-20/22-51/53

**POTASSIUM CHLORIDE P.A. A00984**

Chemical formula	KCl
CAS	7447-40-7
EINECS	231-211-8
Molecular Weight	74,56 g/mol
Appearance	white, crystalline powder
Assay	min. 99,5 %
Substances insoluble in water	max. 0,005 %
pH (5%, H ₂ O)	min. 5,5 max. 9
Nitrogen (N)	max. 0,001 %
Bromides (Br)	max. 0,005 %
Phosphates (PO ₄)	max. 0,0005 %
Iodides (I)	max. 0,002 %
Sulfates (SO ₄)	max. 0,002 %
Heavy metals (as Pb)	max. 0,0005 %
Barium (Ba)	max. 0,001 %
Magnesium (Mg)	max. 0,001 %
Sodium (Na)	max. 0,2 %
Calcium (Ca)	max. 0,001 %
Iron (Fe)	max. 0,0002 %

POTASSIUM CHROMATE PURE G00985

Chemical formula	K ₂ CrO ₄
CAS	7789-00-6
UN number	UN 3288
EINECS	232-140-5
Molecular Weight	194,2 g/mol
Appearance	lemon-yellow crystals or powder
Assay (iodometric)	min. 98,5 %
Substances insoluble in water	max. 0,01 %
pH (5%, H ₂ O)	min. 8,6 max. 9,8
Chlorides (Cl)	max. 0,005 %
Sulfates (SO ₄)	max. 0,05 %
Copper (Cu)	max. 0,002 %
Lead (Pb)	max. 0,01 %
Calcium (Ca)	max. 0,01 %
Iron (Fe)	max. 0,01 %

T, N, R: 49-46-36/37/38-43-50/53

**POTASSIUM CHROMATE (ACS) P.A. A00985**

Chemical formula	K ₂ CrO ₄
CAS	7789-00-6
UN number	UN 3288
EINECS	232-140-5
Molecular Weight	194,2 g/mol
Appearance	lemon-yellow crystals or powder
Assay (iodometric)	min. 99 %
Substances insoluble in water	max. 0,003 %
pH (5%, H ₂ O)	min. 8,6 max. 9,8
Chlorides (Cl)	max. 0,001 %
Sulfates (SO ₄)	max. 0,03 %
Zinc (Zn)	max. 0,005 %
Aluminium (Al)	max. 0,003 %
Cadmium (Cd)	max. 0,005 %
Cobalt (Co)	max. 0,005 %
Copper (Cu)	max. 0,001 %
Nickel (Ni)	max. 0,005 %
Lead (Pb)	max. 0,005 %
Sodium (Na)	max. 0,02 %
Calcium (Ca)	max. 0,005 %
Iron (Fe)	max. 0,002 %

T, N, R: 49-46-36/37/38-43-50/53

**POTASSIUM CYANIDE PURE G00986**

Chemical formula	KCN
CAS	151-50-8
UN number	UN 1680
EINECS	205-792-3
Molecular Weight	65,12 g/mol
Assay (argentometry)	min. 96 %
Substances insoluble in water	max. 0,02 %
Chlorides (Cl)	max. 0,1 %
Phosphates (PO ₄)	max. 0,02 %
Rhodanates (SCN)	max. 0,05 %
Sulfates (SO ₄)	max. 0,05 %
Sulfides (S)	max. 0,005 %
Zinc (Zn)	max. 0,05 %
Lead (Pb)	max. 0,001 %
Sodium (Na)	max. 0,5 %
Iron (Fe)	max. 0,05 %

T+, N, R: 26/27/28-32-50/53

**POTASSIUM DICHROMATE PURE G00990**

Chemical formula	K ₂ Cr ₂ O ₇
CAS	7778-50-9
UN number	UN 3288
EINECS	231-906-6
Molecular Weight	294,19 g/mol
Appearance	orange crystals
Assay (iodometric)	min. 99 %
Substances insoluble in water	max. 0,01 %
Chlorides (Cl)	max. 0,01 %
Sulfates (SO ₄)	max. 0,05 %
Calcium (Ca)	max. 0,02 %

O,T+, N, R: 45-46-60-61-8-21-25-26-34-42/43-48/23-50/53

**POTASSIUM DICHROMATE (ACS) P.A. A00990**

Chemical formula	K ₂ Cr ₂ O ₇
CAS	7778-50-9
UN number	UN 3288
EINECS	231-906-6
Molecular Weight	294,19 g/mol
Appearance	orange crystals
Assay (iodometric)	min. 99,5 %
Substances insoluble in water	max. 0,003 %
pH (5%, H ₂ O)	min. 3,7 max. 3,9
Loss on drying (105 °C)	max. 0,05 %
Chlorides (Cl)	max. 0,001 %
Sulfates (SO ₄)	max. 0,005 %
Zinc (Zn)	max. 0,0005 %
Cadmium (Cd)	max. 0,0005 %
Cobalt (Co)	max. 0,0005 %
Magnesium (Mg)	max. 0,0005 %
Copper (Cu)	max. 0,001 %
Nickel (Ni)	max. 0,0005 %
Lead (Pb)	max. 0,001 %
Sodium (Na)	max. 0,02 %
Calcium (Ca)	max. 0,002 %
Iron (Fe)	max. 0,001 %

O,T+, N, R: 45-46-60-61-8-21-25-26-34-42/43-48/23-50/53

**POTASSIUM DIHYDROGEN PHOSPHATE PURE G00992**

Chemical formula	KH ₂ PO ₄
CAS	7778-77-0
EINECS	231-913-4
Molecular Weight	136,09 g/mol
Appearance	colourless crystals
Assay	min. 98 %
Loss on drying	max. 1 %
Substances insoluble in water	max. 0,02 %
pH (5%, H ₂ O)	min. 4,2 max. 4,6
Nitrogen (N)	max. 0,005 %
Chlorides (Cl)	max. 0,002 %
Sulfates (SO ₄)	max. 0,01 %
Heavy metals (as Pb)	max. 0,002 %
Arsenic (As)	max. 0,0002 %
Iron (Fe)	max. 0,003 %

POTASSIUM DIHYDROGEN PHOSPHATE P.A. A00992

Chemical formula	KH ₂ PO ₄
CAS	7778-77-0
EINECS	231-913-4
Molecular Weight	136,09 g/mol
Appearance	colourless crystals
Assay	min. 99,5 %
Loss on drying	max. 0,2 %
Substances insoluble in water	max. 0,01 %
pH (5%, H ₂ O)	min. 4,3 max. 4,6
Nitrogen (N)	max. 0,001 %
Chlorides (Cl)	max. 0,0005 %
Sulfates (SO ₄)	max. 0,002 %
Heavy metals (as Pb)	max. 0,001 %
Arsenic (As)	max. 0,0001 %
Sodium (Na)	max. 0,02 %
Iron (Fe)	max. 0,001 %

POTASSIUM FLUORIDE ANHYDROUS P.A. A00994

Chemical formula	KF
CAS	7789-23-3
UN number	UN 1812
EINECS	232-151-5
Molecular Weight	58,1 g/mol
Appearance	colourless or white, crystalline powder
Assay	min. 99 %
Loss on drying	max. 1 %
Substances insoluble in water	max. 0,01 %
Free acids (as HF)	max. 0,05 %
Free alkalis (as K ₂ CO ₃)	max. 0,15 %
Chlorides (Cl)	max. 0,005 %
Sulfates (SO ₄)	max. 0,01 %
Heavy metals (as Pb)	max. 0,002 %
Iron (Fe)	max. 0,001 %

POTASSIUM HEXACHLOROPLATINATE(IV) PURE G00997

Chemical formula	K ₂ PtCl ₆
CAS	16921-30-5
UN number	UN 3288
EINECS	240-979-3
Molecular Weight	485,9946 g/mol
Appearance	yellow or orange-yellow crystals or powder
Assay (Pt)	min. 39,8 %

T, R: 23/24/25



T, R: 25-41-42/43



POTASSIUM HYDROGEN PHTHALATE P.A. A01027

Chemical formula	C ₈ H ₅ KO ₄
CAS	877-24-7
EINECS	212-889-4
Molecular Weight	204,23 g/mol
Appearance	white, crystalline powder
Assay	min. 99,5
Loss on drying	max. 100,1 %
Substances insoluble in water	max. 0,05 %
pH (1%, H ₂ O)	min. 3,9 max. 4,1
Chlorides (Cl)	max. 0,002 %
Sulfates (SO ₄)	max. 0,005 %
Copper (Cu)	max. 0,0005 %
Lead (Pb)	max. 0,0005 %
Iron (Fe)	max. 0,0005 %

POTASSIUM HYDROGEN SULFATE P.A. A01028

Chemical formula	KHSO ₄
CAS	7646-93-7
UN number	UN 2509
EINECS	231-594-1
Molecular Weight	136,17 g/mol
Appearance	colourless, transparent crystals
Assay	min. 96 %
Substances insoluble in NH ₄ OH	max. 0,01 %
Nitrate (NO ₃)	max. 0,001 %
Chlorides (Cl)	max. 0,001 %
Phosphates (PO ₄)	max. 0,001 %
Lead (Pb)	max. 0,001 %
Magnesium (Mg)	max. 0,005 %
Calcium (Ca)	max. 0,005 %
Iron (Fe)	max. 0,001 %
Arsenic (As)	max. 0,0001 %
Copper (Cu)	max. 0,001 %
Nickel (Ni)	max. 0,001 %

C, R: 34-37



POTASSIUM HYDROXIDE P.A. A01033

Chemical formula	KOH
CAS	1310-58-3
UN number	UN 1813
EINECS	215-181-3
Molecular Weight	56,11 g/mol
Appearance	white or nearly white granules or flakes
Assay	min. 85 %
Nitrogen (N)	max. 0,001 %
Chlorides (Cl)	max. 0,004 %
Phosphates (PO ₄)	max. 0,001 %
Silicon dioxide (SiO ₂)	max. 0,005 %
Sulfates (SO ₄)	max. 0,002 %
Carbonates (as K ₂ CO ₃)	max. 1,5 %
Heavy metals (as Pb)	max. 0,001 %
Barium (Ba)	max. 0,0005 %
Zinc (Zn)	max. 0,0005 %
Aluminium (Al)	max. 0,001 %
Cadmium (Cd)	max. 0,0005 %
Cobalt (Co)	max. 0,0005 %
Magnesium (Mg)	max. 0,0005 %
Manganese (Mn)	max. 0,0005 %
Copper (Cu)	max. 0,0005 %
Nickel (Ni)	max. 0,0005 %
Lead (Pb)	max. 0,001 %
Silver (Ag)	max. 0,0005 %
Strontium (Sr)	max. 0,0005 %
Calcium (Ca)	max. 0,001 %
Iron (Fe)	max. 0,0005 %

POTASSIUM HYDROXIDE PURE G01033

Chemical formula	KOH
CAS	1310-58-3
UN number	UN 1813
EINECS	215-181-3
Molecular Weight	56,11 g/mol
Appearance	white or nearly white granules or flakes
Assay	min. 85 %
Nitrogen (N)	max. 0,001 %
Chlorides (Cl)	max. 0,01 %
Phosphates (PO ₄)	max. 0,003 %
Silicon dioxide (SiO ₂)	max. 0,01 %
Sulfates (SO ₄)	max. 0,005 %
Carbonates (as K ₂ CO ₃)	max. 1,5 %
Heavy metals (as Pb)	max. 0,002 %
Aluminium (Al)	max. 0,01 %
Calcium (Ca)	max. 0,003 %
Iron (Fe)	max. 0,001 %

POTASSIUM IODATE P.A. A01003

Chemical formula	KIO ₃
CAS	7758-05-6
UN number	UN 1479
EINECS	231-831-9
Molecular Weight	214,00 g/mol
Appearance	white, crystalline powder
Assay	min. 99,8 %
Substances insoluble in water	max. 0,005 %
pH (5%, H ₂ O)	min. 5 max. 8
Loss on drying (130°C)	max. 0,05 %
Nitrogen (N)	max. 0,002 %
Chlorides and Chlorates (as Cl)	max. 0,02 %
Iodides (I)	max. 0,002 %
Sulfates (SO ₄)	max. 0,005 %
Copper and Lead (Cu+Pb)	max. 0,001 %
Sodium (Na)	max. 0,002 %
Iron (Fe)	max. 0,001 %

O, Xi, R: 8-41



C, R: 22-35



POTASSIUM IODIDE PURE		G01006
Chemical formula	KI	
CAS	7681-11-0	
EINECS	231-659-4	
Molecular Weight	166,01 g/mol	
Appearance	colourless crystals	
Assay (calculated on dried substance)	min. 99 %	
Moisture	max. 0,6 %	
Substances insoluble in water	max. 0,02 %	
Chlorides and Bromides (as Cl)	max. 0,1 %	
Iodates (as IO3)	max. 0,01 %	
Sulfates (SO4)	max. 0,01 %	
Heavy metals (as Pb)	max. 0,001 %	
Magnesium (Mg)	max. 0,005 %	
Sodium (Na)	max. 0,2 %	
Calcium (Ca)	max. 0,01 %	
Iron (Fe)	max. 0,001 %	

POTASSIUM IODIDE P.A.		A01006
Chemical formula	KI	
CAS	7681-11-0	
EINECS	231-659-4	
Molecular Weight	166,01 g/mol	
Appearance	colourless crystals or white powder	
Assay (calculated on dried substance)	min. 99,5 %	
Moisture	max. 0,1 %	
Substances insoluble in water	max. 0,005 %	
pH (5%, H2O)	min. 6 max. 8	
Nitrogen (N)	max. 0,001 %	
Chlorides and Bromides (as Cl)	max. 0,01 %	
Phosphates (PO4)	max. 0,001 %	
Iodates (IO3)	max. 0,0003 %	
Sulfates (SO4)	max. 0,001 %	
Heavy metals (as Pb)	max. 0,0005 %	
Arsenic (As)	max. 0,00001 %	
Magnesium (Mg)	max. 0,001 %	
Sodium (Na)	max. 0,05 %	
Calcium (Ca)	max. 0,001 %	
Iron (Fe)	max. 0,0003 %	

POTASSIUM NITRATE P.A.		A00976
Chemical formula	KNO ₃	
CAS	7757-79-1	
UN number	UN 1486	
EINECS	231-818-8	
Molecular Weight	101,11 g/mol	
Appearance	white, fine crystalline powder	
Assay (on dried substance)	min. 99 %	
Water	max. 0,2 %	
Substances insoluble in water	max. 0,005 %	
pH (5%, H2O)	min. 5,5 max. 8	
Nitrite (NO2)	max. 0,0005 %	
Chlorides (Cl)	max. 0,001 %	
Phosphates (PO4)	max. 0,0003 %	
Iodates (IO3)	max. 0,0005 %	
Sulfates (SO4)	max. 0,003 %	
Ammonia salts (NH4)	max. 0,005 %	
Zinc (Zn)	max. 0,001 %	
Magnesium (Mg)	max. 0,001 %	
Copper (Cu)	max. 0,001 %	
Lead (Pb)	max. 0,001 %	
Sodium (Na)	max. 0,02 %	
Calcium (Ca)	max. 0,002 %	
Iron (Fe)	max. 0,0002 %	

O, R: 8



POTASSIUM PERMANGANATE (ACS) P.A.		A01009
Chemical formula	KMnO ₄	
CAS	7722-64-7	
UN number	UN 1490	
EINECS	231-760-3	
Molecular Weight	158,04 g/mol	
Appearance	dark-violet crystals	
Assay	min. 99 %	
Substances insoluble in water	max. 0,1 %	
Insoluble impurities (without MnO2)	max. 0,01 %	
Nitrogen (N)	max. 0,005 %	
Chlorides (Cl)	max. 0,005 %	
Sulfates (SO4)	max. 0,005 %	
Copper (Cu)	max. 0,001 %	
Lead (Pb)	max. 0,002 %	
Iron (Fe)	max. 0,005 %	

POTASSIUM PERMANGANATE PURE		G01009
Chemical formula	KMnO ₄	
CAS	7722-64-7	
UN number	UN 1490	
EINECS	231-760-3	
Molecular Weight	158,04 g/mol	
Appearance	dark-violet crystals	
Assay	min. 99 %	
Substances insoluble in water	max. 1 %	
Insoluble impurities (without MnO2)	max. 0,03 %	
Nitrogen (N)	max. 0,01 %	
Chlorides (Cl)	max. 0,01 %	
Sulfates (SO4)	max. 0,04 %	

O, Xn, N, R: 8-22-50/53



POTASSIUM PYROSULFITE P.A.		A01014
Chemical formula	K ₂ S ₂ O ₅	
CAS	16731-55-8	
EINECS	240-795-3	
Molecular Weight	222,33 g/mol	
Appearance	white, crystalline powder	
Assay	min. 96 %	
Substances insoluble in water	max. 0,005 %	
Chlorides (Cl)	max. 0,005 %	
Phosphates (PO4)	max. 0,0002 %	
Thiosulfates (S2O3)	max. 0,05 %	
Arsenic (As)	max. 0,0001 %	
Copper (Cu)	max. 0,001 %	
Nickel (Ni)	max. 0,001 %	
Lead (Pb)	max. 0,001 %	
Iron (Fe)	max. 0,001 %	

Xi, R: 31-37-41



POTASSIUM SODIUM TARTRATE TETRAHYDRATE PURE		G01019
Chemical formula	C ₄ H ₄ KNaO ₆ · 4H ₂ O	
CAS	6381-59-5	
EINECS	205-698-2	
Molecular Weight	282,23 g/mol	
Appearance	colourless crystals or white powder	
Assay	min. 98,5 max. 103 %	
Substances insoluble in water	max. 0,01 %	
pH (5%, H2O)	min. 6 max. 8,7	
Reducing substances	passes test	
Chlorides (Cl)	max. 0,005 %	
Sulfates (SO4)	max. 0,05 %	
Ammonia salts (NH4)	max. 0,005 %	
Heavy metals (as Pb)	max. 0,001 %	
Calcium (Ca)	max. 0,005 %	
Iron (Fe)	max. 0,002 %	

POTASSIUM SODIUM TARTRATE TETRAHYDRATE P.A.		A01019
Chemical formula	C ₄ H ₄ KNaO ₆ · 4H ₂ O	
CAS	6381-59-5	
EINECS	205-698-2	
Molecular Weight	282,23 g/mol	
Appearance	colourless crystals or white powder	
Assay	min. 99 max. 102 %	
Substances insoluble in water	max. 0,005 %	
pH (5%, H2O)	min. 6 max. 8,7	
Reducing substances	passes test	
Chlorides (Cl)	max. 0,001 %	
Sulfates (SO4)	max. 0,01 %	
Ammonia salts (NH4)	max. 0,002 %	
Heavy metals (as Pb)	max. 0,0005 %	
Calcium (Ca)	max. 0,002 %	
Iron (Fe)	max. 0,0005 %	

POTASSIUM SULFATE P.A.		A01017
Chemical formula	K ₂ SO ₄	
CAS	7778-80-5	
EINECS	231-915-5	
Molecular Weight	174,27 g/mol	
Appearance	white or colourless, transparent crystals	
Assay	min. 99 %	
Substances insoluble in water	max. 0,01 %	
pH (5%, H2O)	min. 5,5 max. 8	
Nitrogen (N)	max. 0,001 %	
Chlorides (Cl)	max. 0,001 %	
Heavy metals (as Pb)	max. 0,001 %	
Arsenic (As)	max. 0,0001 %	
Zinc (Zn)	max. 0,0005 %	
Cadmium (Cd)	max. 0,0005 %	
Magnesium (Mg)	max. 0,002 %	
Copper (Cu)	max. 0,0005 %	
Sodium (Na)	max. 0,02 %	
Calcium (Ca)	max. 0,005 %	
Iron (Fe)	max. 0,0005 %	

SELENIUM MIXTURE FOR DETERMINATION OF NITROGEN X01117

Appearance	grey-blue or grey-brown crystalline powder
Nitrogen (N)	max. 0,002 %

T+, N, R: 26/27/28-33-51/53



SILICA GEL NARROW POROUS PART.SIZE 1-4 MM WITH MOISTURE INDICATOR - DRYING BAGS X01369

Bulk density	min. 650 max. 850 g/l
Moisture (150°C, 3h)	max. 2 %
Ability of water adsorption (24 hours at 80% relative humidity)	min. 20 %
Granulation	1 ÷ 4 mm

T, R: 49



SILICA GEL NARROW POROUS PARTICLE SIZE 1-4 MM WITH MOISTURE INDICATOR X03141

Bulk density	min. 650 max. 850 g/l
Moisture (150°C, 3h)	max. 1 %
Ability of water adsorption (24 hours at 80% relative humidity)	min. 20 %
Granulation	1 ÷ 4 mm

T, R: 49



SILICA GEL WIDE POROUS PARTICLE SIZE 2-7 MM X01367

Chemical formula	SiO ₂
CAS	7631-86-9
EINECS	231-545-4
Molecular Weight	60,09 g/mol
Bulk density	min. 500 max. 650 g/l
Moisture (150°C, 3h)	max. 2 %
Ability of water adsorption (24 hours at 80% relative humidity)	min. 5 %
Granulation	2 ÷ 7 mm

SILICON DIOXIDE P.A. A00561

Chemical formula	SiO ₂
CAS	7631-86-9
EINECS	231-545-4
Molecular Weight	60,08 g/mol
Appearance	white, crystalline powder
Assay	min. 96,5 %
pH 10 % of water suspension	min. 4 max. 7
Non-volatile residue with HF (as SO ₄)	max. 0,3 %
Loss on ignition	max. 3 %
Nitrate (NO ₃)	max. 0,002 %
Chlorides (Cl)	max. 0,005 %
Copper (Cu)	max. 0,0001 %
Iron (Fe)	max. 0,005 %

SILVER ACETATE PURE G01253

Chemical formula	AgC ₂ H ₃ O ₂
CAS	563-63-3
EINECS	209-254-9
Molecular Weight	166,92 g/mol
Appearance	white crystals or crystalline powder
Assay	min. 99 %
Substances insoluble in HNO ₃	max. 0,05 %
Substances not precipitated by HCl	max. 0,1 %
Nitrogen (N)	max. 0,01 %

Xi, R: 36



SILVER BROMIDE PURE G01244

Chemical formula	AgBr
CAS	7785-23-1
EINECS	232-076-8
Density	6,473 g/cm ³
Molecular Weight	187,77 g/mol
Appearance	pale yellow powder
Assay	min. 99 %
Loss of mass after drying	max. 0,05 %

SILVER CHLORIDE PURE G01245

Chemical formula	AgCl
CAS	7783-90-6
EINECS	232-033-3
Molecular Weight	143,32 g/mol
Appearance	white amorphous powder
Assay	min. 99 %
Moisture	max. 0,9 %
Substances soluble in water	max. 0,02 %
Reaction	passes test

SILVER NITRATE PURE G01242

Chemical formula	AgNO ₃
CAS	7761-88-8
UN number	UN 1493
EINECS	231-853-9
Molecular Weight	169,87 g/mol
Appearance	colourless white crystals, white powder
Assay	min. 99,9 %
Moisture	max. 0,06 %
Substances insoluble in water	max. 0,01 %
Substances not precipitated by HCl	max. 0,06 %
Chlorides (Cl)	max. 0,001 %
Sulfates (SO ₄)	max. 0,01 %
Lead, copper, zinc (Pb+Cu+Zn)	max. 0,005 %
Iron (Fe)	max. 0,001 %

C, N, R: 34-50/53



SILVER NITRATE P.A. A01242

Chemical formula	AgNO ₃
Density	500 g/cm ³
CAS	7761-88-8
UN number	UN 1493
EINECS	231-853-9
Molecular Weight	169,87 g/mol
Appearance	colourless white crystals, white powder
Assay	min. 99,9 %
Moisture	max. 0,06 %
Substances insoluble in water	max. 0,005 %
Substances not precipitated by HCl	max. 0,04 %
Chlorides (Cl)	max. 0,0005 %
Sulfates (SO ₄)	max. 0,005 %
Lead, copper, zinc (Pb+Cu+Zn)	max. 0,002 %
Iron (Fe)	max. 0,0005 %

C, N, R: 34-50/53

**SILVER SULFATE P.A. A01254**

Chemical formula	Ag ₂ SO ₄
CAS	10294-26-5
EINECS	233-653-7
Molecular Weight	311,79 g/mol
Appearance	white crystals or white powder
Assay	min. 99,8 %
Substances insoluble in dilute HNO ₃	max. 0,02 %
Substances not precipitated by HCl	max. 0,03 %
Nitrate (NO ₃)	max. 0,005 %
Chlorides (Cl)	max. 0,001 %
Lead, copper, zinc (Pb+Cu+Zn)	max. 0,002 %
Iron (Fe)	max. 0,001 %

Xi, R: 41

**SODIUM ACETATE ANHYDROUS (ACS) P.A. A01183**

Chemical formula	C ₂ H ₃ NaO ₂
CAS	127-09-3
EINECS	204-823-8
Molecular Weight	82,03 g/mol
Appearance	small white crystals
Assay (perchloric acid titration)	min. 99 %
Substances insoluble in water	max. 0,005 %
pH (5%, H ₂ O)	min. 7,5 max. 9,2
Loss on drying (120°C)	max. 1 %
Chlorides (Cl)	max. 0,002 %
Phosphates (PO ₄)	max. 0,001 %
Sulfates (SO ₄)	max. 0,003 %
Amonia salts	max. 0,001 %
Heavy metals (as Pb)	max. 0,001 %
Arsenic (As)	max. 0,0001 %
Zinc (Zn)	max. 0,0005 %
Aluminium (Al)	max. 0,001 %
Cadmium (Cd)	max. 0,0005 %
Cobalt (Co)	max. 0,0005 %
Magnesium (Mg)	max. 0,001 %
Copper (Cu)	max. 0,0005 %
Nickel (Ni)	max. 0,0005 %
Lead (Pb)	max. 0,0005 %
Potassium (K)	max. 0,02 %
Calcium (Ca)	max. 0,002 %
Iron (Fe)	max. 0,0005 %

SODIUM ACETATE TRIHYDRATE (ACS) P.A. A01182

Chemical formula	C ₂ H ₃ NaO ₂ · 3 H ₂ O
CAS	6131-90-4
EINECS	204-823-8
Molecular Weight	136,08 g/mol
Appearance	colourless, transparent crystals
Assay	min. 99 max. 101 %
Substances insoluble in water	max. 0,005 %
pH (5%, H ₂ O)	min. 7,5 max. 9,2
Substances reducing KMnO ₄ (as HCOOH)	max. 0,005 %
Chlorides (Cl)	max. 0,001 %
Phosphates (PO ₄)	max. 0,0005 %
Sulfates (SO ₄)	max. 0,002 %
Heavy metals (as Pb)	max. 0,0005 %
Arsenic (As)	max. 0,00005 %
Zinc (Zn)	max. 0,0005 %
Aluminium (Al)	max. 0,0005 %
Magnesium (Mg)	max. 0,0005 %
Copper (Cu)	max. 0,0005 %
Lead (Pb)	max. 0,0005 %
Potassium (K)	max. 0,005 %
Calcium (Ca)	max. 0,001 %
Iron (Fe)	max. 0,0005 %

SODIUM CARBONATE ANHYDROUS PURE G01209

Chemical formula	Na ₂ CO ₃
CAS	497-19-8
EINECS	207-838-8
Molecular Weight	105,99 g/mol
Appearance	white, crystalline powder
Assay	min. 99,5 %
Substances insoluble in water	max. 0,02 %
Loss on ignition	max. 1 %
Chlorides (Cl)	max. 0,015 %
Phosphates (PO ₄)	max. 0,005 %
Sulfur total (as SO ₄)	max. 0,01 %
Heavy metals (as Pb)	max. 0,001 %
Arsenic (As)	max. 0,0002 %
Magnesium (Mg)	max. 0,01 %
Potassium (K)	max. 0,04 %
Calcium (Ca)	max. 0,02 %
Iron (Fe)	max. 0,001 %

Xi, R: 36

**SODIUM CARBONATE ANHYDROUS P.A. A01209**

Chemical formula	Na ₂ CO ₃
CAS	497-19-8
EINECS	207-838-8
Molecular Weight	105,99 g/mol
Appearance	white, crystalline powder
Assay	min. 99,8 %
Substances insoluble in water	max. 0,01 %
Loss on ignition	max. 0,5 %
Nitrogen (N)	max. 0,001 %
Chlorides (Cl)	max. 0,001 %
Phosphates (PO ₄)	max. 0,002 %
Silicates (as SiO ₂)	max. 0,003 %
Sulfur total (as SO ₄)	max. 0,003 %
Arsenic (As)	max. 0,00005 %
Aluminium (Al)	max. 0,003 %
Magnesium (Mg)	max. 0,005 %
Copper (Cu)	max. 0,0005 %
Lead (Pb)	max. 0,0005 %
Potassium (K)	max. 0,02 %
Calcium (Ca)	max. 0,01 %
Iron (Fe)	max. 0,0005 %

Xi, R: 36

**SODIUM CARBONATE DECAHYDRATE P.A. A01208**

Chemical formula	Na ₂ CO ₃ · 10H ₂ O
CAS	6132-02-01
EINECS	207-838-8
Molecular Weight	286,14 g/mol
Appearance	colourless crystals
Assay (after ignition)	min. 99,8 %
Substances insoluble in water	max. 0,003 %
Silicic acid (SiO ₂)	max. 0,001 %
Loss on ignition	min. 62,3 max. 64,2 %
Nitrogen (N)	max. 0,0005 %
Chlorides (Cl)	max. 0,001 %
Phosphates (PO ₄)	max. 0,0005 %
Sulfur total (as SO ₄)	max. 0,001 %
Heavy metals (as Pb)	max. 0,0003 %
Arsenic (As)	max. 0,00002 %
Aluminium (Al)	max. 0,001 %
Potassium (K)	max. 0,001 %
Magnesium and calcium (as Mg)	max. 0,006 %
Iron (Fe)	max. 0,0002 %

Xi, R: 36

**SODIUM CHLORIDE PURE G01145**

Chemical formula	NaCl
CAS	7647-14-5
EINECS	231-598-3
Molecular Weight	58,44 g/mol
Appearance	colourless crystals or white, crystalline powder
Assay (after ignition)	min. 99,8 %
Substances insoluble in water	max. 0,01 %
Loss on ignition	max. 1,5 %
Nitrogen (N)	max. 0,002 %
Iodides (I)	max. 0,012 %
Sulfates (SO ₄)	max. 0,01 %
Heavy metals (as Pb)	max. 0,001 %
Arsenic (As)	max. 0,0001 %
Barium (Ba)	max. 0,01 %
Magnesium (Mg)	max. 0,005 %
Potassium (K)	max. 0,05 %
Calcium (Ca)	max. 0,008 %
Iron (Fe)	max. 0,001 %

SODIUM CHLORIDE P.A.		A01145
Chemical formula	NaCl	
CAS	7647-14-5	
EINECS	231-598-3	
Molecular Weight	58,44 g/mol	
Appearance	colourless crystals or white, crystalline powder	
Assay (after ignition)	min. 99,9 %	
Substances insoluble in water	max. 0,005 %	
pH (5%, H2O)	min. 5 max. 8	
Loss on ignition	max. 1 %	
Nitrogen (N)	max. 0,001 %	
Iodides (I)	max. 0,008 %	
Sulfates (SO4)	max. 0,005 %	
Heavy metals (as Pb)	max. 0,0005 %	
Arsenic (As)	max. 0,00005 %	
Barium (Ba)	max. 0,003 %	
Magnesium (Mg)	max. 0,002 %	
Potassium (K)	max. 0,03 %	
Calcium (Ca)	max. 0,004 %	
Iron (Fe)	max. 0,0005 %	

SODIUM DIHYDROGEN PHOSPHATE ANHYDROUS P.A.		A01158
Chemical formula	NaH ₂ PO ₄	
CAS	7558-80-7	
EINECS	231-449-2	
Molecular Weight	120,00 g/mol	
Appearance	white powder	
Assay	min. 99 %	
Substances insoluble in water	max. 0,005 %	
pH (5%, H2O)	min. 4 max. 4,5	
Chlorides (Cl)	max. 0,003 %	
Sulfates (SO4)	max. 0,005 %	
Heavy metals (as Pb)	max. 0,002 %	
Zinc (Zn)	max. 0,005 %	
Copper (Cu)	max. 0,005 %	
Potassium (K)	max. 0,03 %	
Calcium (Ca)	max. 0,005 %	
Iron (Fe)	max. 0,003 %	

SODIUM DIHYDROGEN PHOSPHATE DIHYDRATE P.A.		A01157
Chemical formula	NaH ₂ PO ₄ · 2H ₂ O	
CAS	13472-35-0	
EINECS	231-449-2	
Molecular Weight	156,01 g/mol	
Appearance	colourless, fine crystals or white powder	
Assay	min. 99 %	
Loss on drying	min. 22,8 max. 24 %	
Substances insoluble in water	max. 0,005 %	
pH (5%, H2O)	min. 4,1 max. 4,5	
Nitrogen (N)	max. 0,002 %	
Chlorides (Cl)	max. 0,001 %	
Sulfates (SO4)	max. 0,005 %	
Heavy metals (as Pb)	max. 0,001 %	
Arsenic (As)	max. 0,0002 %	
Magnesium (Mg)	max. 0,001 %	
Calcium (Ca)	max. 0,005 %	
Iron (Fe)	max. 0,002 %	

SODIUM DIHYDROGEN PHOSPHATE MONOHYDRATE P.A.		A01156
Chemical formula	NaH ₂ PO ₄ · H ₂ O	
CAS	10049-21-5	
EINECS	231-449-2	
Molecular Weight	137,99 g/mol	
Appearance	colourless, fine crystals or white powder	
Assay	min. 99 %	
Substances insoluble in water	max. 0,005 %	
pH (5%, H2O)	min. 4,1 max. 4,5	
Nitrogen (N)	max. 0,002 %	
Chlorides (Cl)	max. 0,001 %	
Sulfates (SO4)	max. 0,005 %	
Heavy metals (as Pb)	max. 0,001 %	
Arsenic (As)	max. 0,0001 %	
Magnesium (Mg)	max. 0,001 %	
Calcium (Ca)	max. 0,005 %	
Iron (Fe)	max. 0,002 %	

SODIUM FLUORIDE PURE		G01160
Chemical formula	NaF	
CAS	7681-49-4	
UN number	UN 1690	
EINECS	231-667-8	
Molecular Weight	41,99 g/mol	
Appearance	white, crystalline powder	
Assay (calculated on anhydrous substance)	min. 98,5 max 102 %	
Loss on drying (150°C)	max. 0,5 %	
Substances insoluble in water	max. 0,025 %	
Acidity (as HF)	max. 0,2 %	
Alkalies (as NaOH)	max. 0,1 %	
Chlorides (Cl)	max. 0,01 %	
Fluosilicates (as SiF6)	passes test	
Sulfates (SO4)	max. 0,02 %	
Heavy metals (as Pb)	max. 0,002 %	
Copper (Cu)	max. 0,002 %	
Iron (Fe)	max. 0,005 %	

T, R: 25-32-36/38

SODIUM FLUORIDE P.A.		A01160
Chemical formula	NaF	
CAS	7681-49-4	
UN number	UN 1690	
EINECS	231-667-8	
Molecular Weight	41,99 g/mol	
Appearance	white, crystalline powder	
Assay	min. 99 %	
Substances insoluble in water	max. 0,005 %	
Loss on drying (150°C)	max. 0,2 %	
Acidity (as HF)	max. 0,05 %	
Alkalies (as NaOH)	max. 0,04 %	
Chlorides (Cl)	max. 0,003 %	
Sulfates (SO4)	max. 0,01 %	
Fluosilicates (as SiF6)	max. 0,1 %	
Heavy metals (as Pb)	max. 0,001 %	
Copper (Cu)	max. 0,0005 %	
Lead (Pb)	max. 0,001 %	
Potassium (K)	max. 0,02 %	
Iron (Fe)	max. 0,002 %	

T, R: 25-32-36/38



SODIUM HYDROGEN CARBONATE P.A.		A01233
Chemical formula	NaHCO ₃	
CAS	144-55-8	
EINECS	205-633-8	
Molecular Weight	84,01 g/mol	
Appearance	white, crystalline powder	
Assay	min. 99,5 max. 101 %	
Substances insoluble in water	max. 0,01 %	
pH (5%, H2O)	min. 8 max. 8,6	
Chlorides (Cl)	max. 0,01 %	
Sulfur total (as SO4)	max. 0,005 %	
Phosphates (PO4)	max. 0,002 %	
Ammonia salts (NH4)	max. 0,001 %	
Iodine reducing substances (as HCOOH)	max. 0,005 %	
Arsenic (As)	max. 0,0002 %	
Heavy metals (as Pb)	max. 0,0005 %	
Magnesium (Mg)	max. 0,005 %	
Potassium (K)	max. 0,005 %	
Calcium (Ca)	max. 0,005 %	
Iron (Fe)	max. 0,001 %	

SODIUM HYDROXIDE MICROGRANULAR PURE		G02473
Chemical formula	NaOH	
Density	2,13 g/cm ³	
CAS	1310-73-2	
UN number	UN 1823	
EINECS	215-185-5	
Molecular Weight	40 g/mol	
Appearance	white, homogenous microgranules	
Assay	min. 98 %	
Sodium carbonate	max. 1 %	
Nitrogen (N)	max. 0,0007 %	
Chlorides (Cl)	max. 0,015 %	
Phosphates (PO4)	max. 0,002 %	
Silicon dioxide (SiO2)	max. 0,008 %	
Sulfates (SO4)	max. 0,005 %	
Heavy metals (as Pb)	max. 0,002 %	
Aluminium (Al)	max. 0,002 %	
Calcium (Ca)	max. 0,005 %	
Iron (Fe)	max. 0,0015 %	

C, R: 35



SODIUM HYDROGEN SELENITE P.A.		A01211
Chemical formula	NaHSeO ₃	
CAS	7782-82-3	
UN number	UN 2630	
EINECS	231-996-3	
Molecular Weight	150,96 g/mol	
Appearance	white or pale yellowish crystals or powder	
Assay Se (IV)	min. 52 %	
Moisture	max. 1 %	
Chlorides (Cl)	max. 0,01 %	
Sulfate and selenate (as SO4)	max. 0,01 %	
Antimony (Sb)	max. 0,005 %	
Arsenic (As)	max. 0,05 %	
Copper (Cu)	max. 0,01 %	
Lead (Pb)	max. 0,02 %	
Calcium (Ca)	max. 0,01 %	
Iron (Fe)	max. 0,005 %	

T, N, R: 23/25-33-50/53



SODIUM HYDROXIDE MICROGRANULAR P.A. A02473

Chemical formula	NaOH
CAS	1310-73-2
UN number	UN 1823
EINECS	215-185-5
Molecular Weight	40,00 g/mol
Appearance	white, homogenous microgranules
Assay	min. 98,8 %
Sodium carbonate	max. 0,7 %
Nitrogen (N)	max. 0,0005 %
Chlorides (Cl)	max. 0,005 %
Phosphates (PO4)	max. 0,001 %
Silicon dioxide (SiO2)	max. 0,005 %
Sulfates (SO4)	max. 0,003 %
Heavy metals (as Pb)	max. 0,001 %
Barium (Ba)	max. 0,0005 %
Zinc (Zn)	max. 0,0005 %
Aluminium (Al)	max. 0,001 %
Cadmium (Cd)	max. 0,0005 %
Cobalt (Co)	max. 0,0005 %
Magnesium (Mg)	max. 0,0005 %
Manganese (Mn)	max. 0,0005 %
Copper (Cu)	max. 0,0005 %
Nickel (Ni)	max. 0,0005 %
Lead (Pb)	max. 0,0005 %
Silver (Ag)	max. 0,0005 %
Strontium (Sr)	max. 0,0005 %
Calcium (Ca)	max. 0,001 %
Iron (Fe)	max. 0,0005 %
Arsenic (As)	max. 0,0003 %

C, R: 35

**SODIUM IODIDE P.A. A01168**

Chemical formula	NaI
CAS	7681-82-5
EINECS	231-679-3
Molecular Weight	149,89 g/mol
Appearance	colourless crystals
Assay (on dried substance)	min. 99 %
Substances insoluble in water	max. 0,005 %
pH (5%, H2O)	min. 6 max. 9
Chlorides and Bromides (as Cl)	max. 0,05 %
Nitrogen (N)	max. 0,001 %
Iodates (IO3)	max. 0,005 %
Sulfates (SO4)	max. 0,003 %
Arsenic (As)	max. 0,0005 %
Barium (Ba)	max. 0,002 %
Magnesium (Mg)	max. 0,001 %
Heavy metals (as Pb)	max. 0,0005 %
Calcium (Ca)	max. 0,002 %
Iron (Fe)	max. 0,0005 %
Moisture	max. 5 %

SODIUM NITRATE P.A. A01136

Chemical formula	NaNO ₃
CAS	7631-99-4
UN number	UN 1498
EINECS	231-554-3
Molecular Weight	84,99 g/mol
Appearance	white, fine crystalline powder
Assay (on dried substance)	min. 99,5 %
Substances insoluble in water	max. 0,005 %
pH (5%, H2O)	min. 5 max. 7,5
Water	max. 1 %
Nitrite (NO2)	max. 0,0002 %
Chlorides (Cl)	max. 0,0005 %
Chlorates and Perchlorates (Cl)	max. 0,003 %
Phosphates (PO4)	max. 0,0002 %
Sulfates (SO4)	max. 0,003 %
Ammonia salts (NH4)	max. 0,002 %
Heavy metals (as Pb)	max. 0,0005 %
Magnesium (Mg)	max. 0,001 %
Potassium (K)	max. 0,005 %
Calcium (Ca)	max. 0,002 %
Iron (Fe)	max. 0,0002 %

O, Xn, R: 8-22-36

**SODIUM MOLYBDATE DIHYDRATE P.A. A01174**

Chemical formula	Na ₂ MoO ₄ · 2H ₂ O
CAS	10102-40-6
EINECS	231-551-7
Molecular Weight	241,95 g/mol
Appearance	colourless crystals or crystalline powder
Assay	min. 99,5 %
Substances insoluble in water	max. 0,005 %
pH (5%, H2O)	min. 7 max. 10,5
Chlorides (Cl)	max. 0,005 %
Phosphates (PO4)	max. 0,001 %
Sulfates (SO4)	max. 0,005 %
Heavy metals (as Pb)	max. 0,001 %
Ammonia salts (NH4)	max. 0,001 %
Iron (Fe)	max. 0,001 %
Calcium (Ca)	max. 0,001 %
Cadmium (Cd)	max. 0,0005 %
Cobalt (Co)	max. 0,0005 %
Chromium (Cr)	max. 0,0005 %
Copper (Cu)	max. 0,0005 %
Potassium (K)	max. 0,05 %
Magnesium (Mg)	max. 0,001 %
Manganese (Mn)	max. 0,0005 %
Nickel (Ni)	max. 0,0005 %
Lead (Pb)	max. 0,0005 %
Zinc (Zn)	max. 0,0005 %

SODIUM SULFATE ANHYDROUS PURE G01200

Chemical formula	Na ₂ SO ₄
CAS	7757-82-6
EINECS	231-820-9
Molecular Weight	142,04 g/mol
Appearance	colourless, crystalline powder
Assay	min. 99 %
Substances insoluble in water	max. 0,02 %
pH (5%, H2O)	min. 5,2 max. 7,5
Loss on ignition	max. 1 %
Chlorides (Cl)	max. 0,005 %
Heavy metals (as Pb)	max. 0,0005 %
Arsenic (As)	max. 0,0002 %
Magnesium (Mg)	max. 0,002 %
Potassium (K)	max. 0,01 %
Calcium (Ca)	max. 0,01 %
Iron (Fe)	max. 0,001 %

SODIUM NITROPRUSSIDE DIHYDRATE (ACS) P.A. A01181

Chemical formula	Na ₂ Fe(CN) ₅ NO · 2H ₂ O
CAS	13755-38-9
UN number	UN 1588
EINECS	238-373-9
Molecular Weight	297,95 g/mol
Appearance	dark-red crystals
Assay	min. 99 %
Substances insoluble in water	max. 0,005 %
Sulfates (SO4)	max. 0,005 %
Chlorides (Cl)	max. 0,01 %
Hexacyanoferrates(III)	max. 0,02 %
Hexacyanoferrates(II)	max. 0,02 %

T, R: 25

**SODIUM SALICYLATE P.A. A01194**

Chemical formula	C ₇ H ₅ NaO ₃
CAS	54-21-7
EINECS	200-198-0
Molecular Weight	160,11 g/mol
Assay	min. 99 %
Loss on drying (110°C)	max. 0,5 %
Chlorides (Cl)	max. 0,002 %
Sulfates (SO4)	max. 0,02 %
Heavy metals (as Pb)	max. 0,001 %

Xn, R: 22-36



SODIUM SULFATE ANHYDROUS P.A.		A01200
Chemical formula	Na ₂ SO ₄	
CAS	7757-82-6	
EINECS	231-820-9	
Molecular Weight	142,04 g/mol	
Appearance	white, hygroscopic powder	
Assay	min. 99 %	
Substances insoluble in water	max. 0,01 %	
pH (5%, H ₂ O)	min. 5,2 max. 7,5	
Loss on ignition	max. 0,5 %	
Nitrogen (N)	max. 0,0005 %	
Chlorides (Cl)	max. 0,003 %	
Phosphates (PO ₄)	max. 0,005 %	
Heavy metals (as Pb)	max. 0,0005 %	
Arsenic (As)	max. 0,0001 %	
Magnesium (Mg)	max. 0,001 %	
Potassium (K)	max. 0,005 %	
Calcium (Ca)	max. 0,005 %	
Iron (Fe)	max. 0,0005 %	

SODIUM SULFITE ANHYDROUS PURE		G01190
Chemical formula	Na ₂ SO ₃	
CAS	7757-83-7	
EINECS	231-821-4	
Molecular Weight	126,04 g/mol	
Appearance	white powder	
Assay	min. 91 %	
Substances insoluble in water	max. 0,02 %	
Chlorides (Cl)	max. 0,02 %	
Thiosulfates (S ₂ O ₃)	max. 0,1 %	
Carbonates (as Na ₂ CO ₃)	max. 0,15 %	
Arsenic (As)	max. 0,0001 %	
Zinc (Zn)	max. 0,001 %	
Copper (Cu)	max. 0,005 %	
Lead (Pb)	max. 0,002 %	
Calcium (Ca)	max. 0,01 %	
Iron (Fe)	max. 0,002 %	

SODIUM SULFITE ANHYDROUS P.A.		A01190
Chemical formula	Na ₂ SO ₃	
CAS	7757-83-7	
EINECS	231-821-4	
Molecular Weight	126,04 g/mol	
Appearance	white powder	
Assay	min. 96 %	
Substances insoluble in water	max. 0,01 %	
Chlorides (Cl)	max. 0,01 %	
Thiosulfates (S ₂ O ₃)	max. 0,04 %	
Carbonates (as Na ₂ CO ₃)	max. 0,15 %	
Arsenic (As)	max. 0,00004 %	
Zinc (Zn)	max. 0,0005 %	
Copper (Cu)	max. 0,0005 %	
Lead (Pb)	max. 0,0005 %	
Calcium (Ca)	max. 0,005 %	
Iron (Fe)	max. 0,001 %	

SODIUM THIOSULFATE ANHYDROUS PURE		G01206
Chemical formula	Na ₂ S ₂ O ₃	
CAS	7772-98-7	
EINECS	231-867-5	
Molecular Weight	158,11 g/mol	
Appearance	white crystals	
Assay (iodometric)	min. 98 %	
Substances insoluble in water	max. 0,02 %	
pH (5%, H ₂ O)	min. 6 max. 8,4	
Sulfates and sulfites (as SO ₄)	max. 0,15 %	
Sulfides (S)	max. 0,002 %	
Copper (Cu)	max. 0,002 %	
Lead (Pb)	max. 0,002 %	
Calcium (Ca)	max. 0,015 %	
Iron (Fe)	max. 0,005 %	

SODIUM THIOSULFATE ANHYDROUS P.A.		A01206
Chemical formula	Na ₂ S ₂ O ₃	
CAS	7772-98-7	
EINECS	231-867-5	
Molecular Weight	158,11 g/mol	
Appearance	white crystals	
Assay (iodometric)	min. 99 %	
Substances insoluble in water	max. 0,01 %	
pH (5%, H ₂ O)	min. 6 max. 8,4	
Loss on drying (105°C)	max. 1 %	
Chlorides (Cl)	max. 0,05 %	
Sulfates and sulfites (as SO ₄)	max. 0,5 %	
Sulfides (S)	max. 0,0005 %	
Zinc (Zn)	max. 0,001 %	
Cadmium (Cd)	max. 0,001 %	
Cobalt (Co)	max. 0,001 %	
Copper (Cu)	max. 0,001 %	
Nickel (Ni)	max. 0,001 %	
Lead (Pb)	max. 0,001 %	
Potassium (K)	max. 0,01 %	
Calcium (Ca)	max. 0,004 %	
Iron (Fe)	max. 0,001 %	

SODIUM THIOSULFATE PENTAHYDRATE (ACS) P.A.		A01205
Chemical formula	Na ₂ S ₂ O ₃ · 5H ₂ O	
CAS	10102-17-7	
EINECS	231-867-5	
Molecular Weight	248,18 g/mol	
Appearance	colourless crystals	
Assay	min. 99,5 %	
Substances insoluble in water	max. 100,5 %	
pH (5%, H ₂ O)	min. 6 max. 8,4	
Nitrogen (N)	max. 0,002 %	
Chlorides (Cl)	max. 0,01 %	
Sulfates and sulfites (as SO ₄)	max. 0,05 %	
Sulfides (S)	max. 0,0001 %	
Heavy metals (as Pb)	max. 0,0005 %	
Magnesium (Mg)	max. 0,001 %	
Potassium (K)	max. 0,005 %	
Calcium (Ca)	max. 0,002 %	
Iron (Fe)	max. 0,0005 %	

STARCH SOLUBLE PURE		G01124
Chemical formula	(C ₆ H ₁₀ O ₅) _n	
CAS	9005-84-9	
EINECS	232-686-4	
Appearance	white or slightly cream-coloured fine powder	
Solubility in water	passes test	
pH (2%, H ₂ O)	min. 5,5 max. 6,5	
Sensitivity	passes test	
Loss on drying	max. 15 %	
Residue on ignition (as SO ₄)	max. 0,7 %	

STARCH SOLUBLE P.A.		A01124
Chemical formula	(C ₆ H ₁₀ O ₅) _n	
CAS	9005-84-9	
EINECS	232-686-4	
Appearance	white or slightly cream-coloured fine powder	
Solubility in water	passes test	
pH (2%, H ₂ O)	min. 5,5 max. 6,5	
Sensitivity	passes test	
Loss on drying	max. 12 %	
Residue on ignition (as SO ₄)	max. 0,4 %	
Reducing substances	passes test	

SULFANILIC ACID P.A.		A00704
Chemical formula	C ₆ H ₇ NO ₃ S	
CAS	121-57-3	
EINECS	204-482-5	
Molecular Weight	173,19 g/mol	
Appearance	white amorphous powder	
Assay	min. 99 %	
Substances insoluble in Na ₂ CO ₃	max. 0,01 %	
Residue on ignition (as SO ₄)	max. 0,01 %	
Nitrite (NO ₂)	max. 0,0002 %	
Chlorides (Cl)	max. 0,001 %	
Sulfates (SO ₄)	max. 0,005 %	
Heavy metals (as Pb)	max. 0,002 %	

Xi, R: 36/38-43



TETRA-SODIUM PYROPHOSPHATE DECAHYDRATE (ACS) P.A. A01283

Chemical formula	Na ₂ P ₂ O ₇ · 10H ₂ O
CAS	13472-36-1
EINECS	231-767-1
Molecular Weight	446,06 g/mol
Appearance	colourless or white crystals
Assay	min. 99 max. 101 %
Substances insoluble in water	max. 0,01 %
pH (5%, H2O)	min. 9,5 max. 10,5
Nitrogen (N)	max. 0,001 %
Chlorides (Cl)	max. 0,001 %
Phosphates (PO4)	max. 0,1 %
Sulfates (SO4)	max. 0,001 %
Heavy metals (as Pb)	max. 0,0005 %
Arsenic (As)	max. 0,0001 %
Potassium (K)	max. 0,005 %
Iron (Fe)	max. 0,0005 %

TETRA-SODIUM PYROPHOSPHATE DECAHYDRATE PURE G01283

Chemical formula	Na ₂ P ₂ O ₇ · 10H ₂ O
CAS	13472-36-1
EINECS	231-767-1
Molecular Weight	446,06 g/mol
Appearance	colourless or white crystals
Assay	min. 98,5 max. 102 %
Substances insoluble in water	max. 0,02 %
Nitrogen (N)	max. 0,002 %
Chlorides (Cl)	max. 0,003 %
Phosphates (PO4)	max. 0,3 %
Sulfates (SO4)	max. 0,005 %
Heavy metals (as Pb)	max. 0,001 %
Arsenic (As)	max. 0,0005 %
Iron (Fe)	max. 0,001 %

TIN(II) CHLORIDE DIHYDRATE PURE G00301

Chemical formula	SnCl ₂ · 2H ₂ O
CAS	10025-69-1
EINECS	231-868-0
Molecular Weight	225,63 g/mol
Appearance	small white crystals
Assay (iodometric)	min. 97 %
Substances insoluble in HCl	max. 0,025 %
Sulfates (SO4)	max. 0,05 %
Arsenic (As)	max. 0,0005 %
Copper (Cu)	max. 0,05 %
Nickel (Ni)	max. 0,05 %
Lead (Pb)	max. 0,1 %
Iron (Fe)	max. 0,01 %

Xn, R: 22-36/37/38-43



TIN(II) CHLORIDE DIHYDRATE (ACS) P.A. A00301

Chemical formula	SnCl ₂ · 2H ₂ O
CAS	10025-69-1
EINECS	231-868-0
Molecular Weight	225,63 g/mol
Appearance	small white crystals
Assay (iodometric)	min. 98 max 103 %
Substances insoluble in HCl	max. 0,005 %
Sulfates (SO4)	max. 0,002 %
Ammonia salts	max. 0,002 %
Arsenic (As)	max. 0,0001 %
Cadmium (Cd)	max. 0,0005 %
Cobalt (Co)	max. 0,0005 %
Magnesium (Mg)	max. 0,005 %
Copper (Cu)	max. 0,001 %
Nickel (Ni)	max. 0,0005 %
Lead (Pb)	max. 0,01 %
Potassium (K)	max. 0,005 %
Sodium (Na)	max. 0,01 %
Calcium (Ca)	max. 0,005 %
Iron (Fe)	max. 0,002 %

Xn, R: 22-36/37/38-43



TIN(II) SULFATE PURE G00306

Chemical formula	SnSO ₄
CAS	7488-55-3
EINECS	231-302-2
Molecular Weight	214,75 g/mol
Appearance	white or white-grey, crystalline powder
Assay	min. 98,5 %

TRIETHANOLAMINE PURE G01304

Chemical formula	C ₆ H ₁₅ NO ₃ ; (CH ₂ CH ₂ OH) ₃ N
Density	1,12 g/cm ³
CAS	102-71-6
EINECS	203-049-8
Molecular Weight	149,19 g/mol
Appearance	colourless liquid darkened on storage
Assay (acid-base titration)	min. 98 %
Density (20°C)	min. 1,12 max. 1,13 g/ml
Refractive index (20°C)	min. 1,481 max. 1,486
Water	max. 0,15 %
Residue on ignition (as SO4)	max. 0,1 %

TRIETHANOLAMINE P.A. A01304

Chemical formula	C ₆ H ₁₅ NO ₃ ; (CH ₂ CH ₂ OH) ₃ N
Density	1,12 g/cm ³
CAS	102-71-6
EINECS	203-049-8
Molecular Weight	149,19 g/mol
Appearance	colourless liquid darkened on storage
Assay (acid-base titration)	min. 99 %
Density (20°C)	min. 1,123 max. 1,128 g/cm ³
Refractive index (20°C)	min. 1,482 max. 1,485
Water	max. 0,1 %
Residue on ignition (as SO4)	max. 0,05 %
Chlorides (Cl)	max. 0,001 %
Heavy metals (as Pb)	max. 0,0001 %
Iron (Fe)	max. 0,0001 %

TRIETHYLAMINE ANHYDROUS P.A. A01306

Chemical formula	C ₆ H ₁₅ N
Density	0,73 g/cm ³
CAS	121-44-8
UN number	UN 1296
EINECS	204-469-4
Molecular Weight	101,19 g/mol
Assay	min. 99,5 %
Density (20°C)	min. 0,725 max. 0,729 g/cm ³
Water	max. 0,1 %
Evaporation residue	max. 0,01 %

F, C, R: 11-20/21/22-35



TRIS(HYDROXYMETHYL) AMINOMETHANE P.A. A01311

Chemical formula	C ₄ H ₁₁ NO ₃
CAS	77-86-1
EINECS	201-064-4
Molecular Weight	121,14 g/mol
Assay	min. 99 %
Melting point	min. 168 max. 172 °C
pH (5%, H2O)	min. 10 max. 11,5
Residue on ignition (as SO4)	max. 0,05 %
Heavy metals (as Pb)	max. 0,0005 %

Xi, R: 36/38



TRI-SODIUM CITRATE DIHYDRATE (ACS) P.A. A01312	
Chemical formula	$C_6H_5Na_3O_7 \cdot 2H_2O$
CAS	6132-04-3
EINECS	200-675-3
Molecular Weight	294,1 g/mol
Appearance	white or colourless, transparent crystals
Assay	min. 99 %
Substances insoluble in water	max. 0,005 %
pH (5%, H ₂ O)	min. 7 max. 9
Chlorides (Cl)	max. 0,001 %
Phosphates (PO ₄)	max. 0,002 %
Sulfates (SO ₄)	max. 0,005 %
Ammonia salts (NH ₄)	max. 0,001 %
Heavy metals (as Pb)	max. 0,0005 %
Arsenic (As)	max. 0,0001 %
Zinc (Zn)	max. 0,0005 %
Cadmium (Cd)	max. 0,0005 %
Copper (Cu)	max. 0,0005 %
Lead (Pb)	max. 0,0005 %
Calcium (Ca)	max. 0,005 %
Iron (Fe)	max. 0,0005 %

TRI-SODIUM PHOSPHATE DODECAHYDRATE P.A. A01313	
Chemical formula	$Na_3PO_4 \cdot 12 H_2O$
CAS	10101-89-0
EINECS	231-509-8
Molecular Weight	380,18 g/mol
Appearance	colourless crystals
Assay	min. 98 %
Substances insoluble in water	max. 0,01 %
Free alkalies (as NaOH)	max. 2 %
Nitrogen (N)	max. 0,002 %
Chlorides (Cl)	max. 0,003 %
Sulfates (SO ₄)	max. 0,005 %
Carbonates (as Na ₂ CO ₃)	passes test
Heavy metals (as Pb)	max. 0,001 %
Arsenic (As)	max. 0,00005 %
Iron (Fe)	max. 0,001 %

UREA P.A. A00791	
Chemical formula	$CH_4N_2O; NH_2CONH_2$
CAS	57-13-6
EINECS	200-315-5
Molecular Weight	60,06 g/mol
Appearance	fine, colourless crystals
Assay	min. 99,5 %
Melting point	min. 132 max. 133 °C
Substances insoluble in water	max. 0,01 %
Biuret	max. 0,1 %
Ash	max. 0,01 %
Chlorides (Cl)	max. 0,003 %
Sulfates (SO ₄)	max. 0,005 %
Heavy metals (as Pb)	max. 0,0005 %
Iron (Fe)	max. 0,0005 %

Xi, R: 36/38



UROTROPINE / HEXAMETHYLENETETRAMINE/ P.A. A01330	
Chemical formula	C ₆ H ₁₂ N ₄
CAS	100-97-0
UN number	UN 1328
EINECS	202-905-8
Molecular Weight	140,19 g/mol
Appearance	colourless crystals or white powder
Assay	min. 99 %
Substances insoluble in water	max. 0,002 %
pH (10%, H ₂ O)	min. 8,5 max. 9,5
Residue on ignition (as SO ₄)	max. 0,01 %
Chlorides (Cl)	max. 0,002 %
Sulfates (SO ₄)	max. 0,005 %
Ammonia salts (NH ₄)	max. 0,005 %
Heavy metals (as Pb)	max. 0,001 %

ZINC CHLORIDE ANHYDROUS P.A. A00292	
Chemical formula	ZnCl ₂
CAS	7646-85-7
UN number	UN 2331
EINECS	231-592-0
Molecular Weight	136,28 g/mol
Appearance	white powder
Assay	min. 98 %
Substances insoluble in dilute HCl	max. 0,005 %
Nitrogen (N)	max. 0,002 %
Sulfates (SO ₄)	max. 0,002 %
Oxychlorides (as ZnO)	max. 1,2 %
Cadmium (Cd)	max. 0,0005 %
Magnesium (Mg)	max. 0,001 %
Copper (Cu)	max. 0,001 %
Lead (Pb)	max. 0,001 %
Potassium (K)	max. 0,001 %
Sodium (Na)	max. 0,001 %
Calcium (Ca)	max. 0,001 %
Iron (Fe)	max. 0,0005 %

ZINC SULFATE HEPTAHYDRATE (ACS) P.A. A00298	
Chemical formula	$ZnSO_4 \cdot 7H_2O$
CAS	7446-20-0
UN number	UN 3077
EINECS	231-793-3
Molecular Weight	287,54 g/mol
Appearance	colourless crystals or white powder
Assay	min. 99,5 %
Substances insoluble in water	max. 100,5 %
pH (5%, H ₂ O)	min. 4,4 max. 5,6
Nitrate (NO ₃)	max. 0,002 %
Ammonia salts (NH ₄)	max. 0,001 %
Chlorides (Cl)	max. 0,0003 %
Arsenic (As)	max. 0,0001 %
Cadmium (Cd)	max. 0,0001 %
Magnesium (Mg)	max. 0,0003 %
Manganese (Mn)	max. 0,0003 %
Copper (Cu)	max. 0,0005 %
Lead (Pb)	max. 0,001 %
Potassium (K)	max. 0,001 %
Sodium (Na)	max. 0,001 %
Calcium (Ca)	max. 0,002 %
Iron (Fe)	max. 0,0003 %

F, Xn, R: 11-42/43



ZINC SULFATE HEPTAHYDRATE PURE G00298	
Chemical formula	$ZnSO_4 \cdot 7H_2O$
CAS	7446-20-0
UN number	UN 3077
EINECS	231-793-3
Molecular Weight	287,54 g/mol
Appearance	colourless crystals or white powder
Assay	min. 99 max. 100,5 %
Substances insoluble in water	max. 0,02 %
pH (5%, H ₂ O)	min. 4,4 max. 5,6
Nitrogen (N)	max. 0,002 %
Chlorides (Cl)	max. 0,002 %
Arsenic (As)	max. 0,0005 %
Lead (Pb)	max. 0,003 %
Potassium (K)	max. 0,005 %
Sodium (Na)	max. 0,005 %
Calcium (Ca)	max. 0,005 %
Iron (Fe)	max. 0,0005 %

ZINC CHLORIDE ANHYDROUS P.A. A00292	
Chemical formula	ZnCl ₂
CAS	7646-85-7
UN number	UN 2331
EINECS	231-592-0
Molecular Weight	136,28 g/mol
Appearance	white powder
Assay	min. 98 %
Substances insoluble in dilute HCl	max. 0,005 %
Nitrogen (N)	max. 0,002 %
Sulfates (SO ₄)	max. 0,002 %
Oxychlorides (as ZnO)	max. 1,2 %
Cadmium (Cd)	max. 0,0005 %
Magnesium (Mg)	max. 0,001 %
Copper (Cu)	max. 0,001 %
Lead (Pb)	max. 0,001 %
Potassium (K)	max. 0,001 %
Sodium (Na)	max. 0,001 %
Calcium (Ca)	max. 0,001 %
Iron (Fe)	max. 0,0005 %

ZINC SULFATE HEPTAHYDRATE (ACS) P.A. A00298	
Chemical formula	$ZnSO_4 \cdot 7H_2O$
CAS	7446-20-0
UN number	UN 3077
EINECS	231-793-3
Molecular Weight	287,54 g/mol
Appearance	colourless crystals or white powder
Assay	min. 99,5 %
Substances insoluble in water	max. 100,5 %
pH (5%, H ₂ O)	min. 4,4 max. 5,6
Nitrate (NO ₃)	max. 0,002 %
Ammonia salts (NH ₄)	max. 0,001 %
Chlorides (Cl)	max. 0,0003 %
Arsenic (As)	max. 0,0001 %
Cadmium (Cd)	max. 0,0001 %
Magnesium (Mg)	max. 0,0003 %
Manganese (Mn)	max. 0,0003 %
Copper (Cu)	max. 0,0005 %
Lead (Pb)	max. 0,001 %
Potassium (K)	max. 0,001 %
Sodium (Na)	max. 0,001 %
Calcium (Ca)	max. 0,002 %
Iron (Fe)	max. 0,0003 %

Xn, N, R: 22-41-50/53

C, N, R: 22-34-50/53

Xn, N, R: 22-41-50/53



ACIDS

Labscan labelled acids cover many important industrial requirements, including a large-scale manufacturing and production of ingredients used in food industry, fertilizer manufacturing, oil refining, wastewater processing, chemical synthesis etc. The acids are offered with an absolute guarantee of the highest quality.



5-SULFOSALICYLIC ACID DIHYDRATE P.A. A00575

Chemical formula	C ₇ H ₆ O ₆ S · 2H ₂ O
CAS	5965-83-3
UN number	UN 3261
EINECS	202-555-6
Molecular Weight	254,22 g/mol
Assay	min. 98 %
Melting point	min. 105 max. 110 °C
Chlorides (Cl)	max. 50 mg/kg
Zinc (Zn)	max. 50 mg/kg
Cadmium (Cd)	max. 50 mg/kg
Cobalt (Co)	max. 50 mg/kg
Copper (Cu)	max. 50 mg/kg
Nickel (Ni)	max. 50 mg/kg
Lead (Pb)	max. 50 mg/kg
Potassium (K)	max. 100 mg/kg
Sodium (Na)	max. 100 mg/kg
Calcium (Ca)	max. 50 mg/kg
Iron (Fe)	max. 50 mg/kg

C, R: 34



ACETIC ACID 80% PURE G00652

Chemical formula	C ₂ H ₄ O ₂ ; CH ₃ COOH
Density	1,07 g/cm ³
CAS	64-19-7
UN number	UN 2790
EINECS	200-580-7
Molecular Weight	60,05 g/mol
Appearance	colourless, clear liquid
Assay	min. 78,5 max. 80 %
Dilution test	passes test
Evaporation residue	max. 0,005 %
Chlorides (Cl)	max. 0,0004 %
Sulfates (SO ₄)	max. 0,0005 %
Heavy metals (as Pb)	max. 0,0002 %
Iron (Fe)	max. 0,0005 %

C, R: 34



ACETIC ACID 80% P.A. A00652

Chemical formula	C ₂ H ₄ O ₂ ; CH ₃ COOH
Density	1,07 g/cm ³
CAS	64-19-7
UN number	UN 2790
EINECS	200-580-7
Molecular Weight	60,05 g/mol
Appearance	colourless, clear liquid
Assay	min. 78,5 max. 80 %
Aldehydes (as CH ₃ CHO)	max. 0,01 %
Formic acid (HCOOH)	max. 0,03 %
Dilution test	passes test
Evaporation residue	max. 0,002 %
Substances reducing KMnO ₄ (as HCOOH)	max. 0,01 %
Chlorides (Cl)	max. 0,0002 %
Sulfates (SO ₄)	max. 0,0003 %
Heavy metals (as Pb)	max. 0,0001 %
Iron (Fe)	max. 0,0001 %

C, R: 34



ACETIC ACID MIN.99,5% P.A. A00654

Chemical formula	C ₂ H ₄ O ₂ ; CH ₃ COOH
Density	1,05 g/cm ³
CAS	64-19-7
UN number	UN 2789
EINECS	200-580-7
Molecular Weight	60,05 g/mol
Appearance	colourless, clear liquid
Assay	min. 99,5 %
Density (20°C)	min. 1,049
	max. 1,052 g/cm ³
Acetic aldehyde (CH ₃ CHO)	max. 0,01 %
Evaporation residue	max. 0,002 %
Substances reducing KMnO ₄ (as HCOOH)	max. 0,02 %
Chlorides (Cl)	max. 0,0001 %
Sulfates (SO ₄)	max. 0,0002 %
Heavy metals (as Pb)	max. 0,0001 %
Iron (Fe)	max. 0,00006 %

C, R: 10-35



ACETIC ANHYDRIDE P.A. A00840

Chemical formula	(CH ₃ CO) ₂ O
Density	1,08 g/cm ³
CAS	108-24-7
UN number	UN 1715
EINECS	203-564-8
Molecular Weight	102,09 g/mol
Appearance	colourless, clear liquid
Assay	min. 98 %
Density (20°C)	min. 1,079
	max. 1,082 g/cm ³
Evaporation residue	max. 0,003 %
Substances reducing KMnO ₄ (as O)	max. 0,015 %
Chlorides (Cl)	max. 0,0001 %
Phosphates (PO ₄)	max. 0,0005 %
Sulfates (SO ₄)	max. 0,0002 %
Heavy metals (as Pb)	max. 0,0001 %
Iron (Fe)	max. 0,00005 %

C, R: 10-20/22-34



L(+)-ASCORBIC ACID (ACS, PH EUR) P.A. A00631

Chemical formula	C ₆ H ₈ O ₆
CAS	50-81-7
EINECS	200-066-2
Molecular Weight	176,13 g/mol
Appearance	white or nearly white, crystalline powder or colourless crystals darkened on light
Assay	min. 99 max. 100 %
Solubility in water	freely soluble
Solubility in ethanol 96 %	soluble
Identity	passes test
Specific rotation (25°C, 10%, H ₂ O)	+20,5 ÷ +21,5 °
Melting point	min. 191 max. 192 °C
Appearance of solution (5%, H ₂ O)	not more intensely coloured than reference solution BY7
pH (5%, H ₂ O)	min. 2,2 max. 2,5
Residue on ignition (as SO ₄)	max. 0,1 %
Oxalic acid (H ₂ C ₂ O ₄)	max. 0,2 %
Heavy metals (as Pb)	max. 0,001 %
Arsenic (As)	max. 0,0003 %
Copper (Cu)	max. 0,0005 %
Lead (Pb)	max. 0,0005 %
Mercury (Hg)	max. 0,0001 %
Iron (Fe)	max. 0,0002 %

BORIC ACID PURE G00590

Chemical formula	H ₃ BO ₃
CAS	10043-35-3
EINECS	233-139-2
Molecular Weight	61,83 g/mol
Appearance	colourless crystals or white, crystalline powder
Assay	min. 99 %
Substances insoluble in water	max. 0,2 %
Substances insoluble in ethanol	passes test
Non-volatile substances with methanol	max. 0,02 %
Chlorides (Cl)	max. 0,002 %
Phosphates (PO ₄)	max. 0,003 %
Sulfates (SO ₄)	max. 0,01 %
Heavy metals (as Pb)	max. 0,002 %
Arsenic (As)	max. 0,0002 %
Calcium (Ca)	max. 0,01 %
Iron (Fe)	max. 0,001 %

BORIC ACID P.A. A00590

Chemical formula	H ₃ BO ₃
CAS	10043-35-3
EINECS	233-139-2
Molecular Weight	61,83 g/mol
Appearance	colourless crystals or white, crystalline powder
Assay	min. 99,5 %
Substances insoluble in water	max. 0,01 %
Substances insoluble in ethanol	passes test
Non-volatile substances with methanol	max. 0,05 %
Chlorides (Cl)	max. 0,0003 %
Phosphates (PO ₄)	max. 0,001 %
Sulfates (SO ₄)	max. 0,005 %
Heavy metals (as Pb)	max. 0,001 %
Arsenic (As)	max. 0,0001 %
Calcium (Ca)	max. 0,005 %
Iron (Fe)	max. 0,0001 %

CITRIC ACID MONOHYDRATE P.A. A00601

Chemical formula	C ₆ H ₈ O ₇ · H ₂ O; HOOC(COOH)(CH ₂ COOH) ₂ · H ₂ O
CAS	5949-29-1
EINECS	201-069-1
Molecular Weight	210,14 g/mol
Appearance	fine, colourless crystals or white powder
Assay	min. 99,5 max. 100,5 %
Substances insoluble in water	max. 0,03 %
Residue on ignition (as SO ₄)	max. 0,005 %
Substances darkened by H ₂ SO ₄	passes test
Chlorides (Cl)	max. 0,001 %
Phosphates (PO ₄)	max. 0,001 %
Sulfur total (as SO ₄)	max. 0,01 %
Heavy metals (as Pb)	max. 0,0005 %
Calcium (Ca)	max. 0,005 %
Iron (Fe)	max. 0,0005 %

Xi, R: 36



FLUOROBORIC ACID 40% PURE		G00607
Chemical formula	HBF ₄	
Density	1,31 g/cm ³	
CAS	16872-11-0	
UN number	UN 1775	
EINECS	240-898-3	
Molecular Weight	87,81 g/mol	
Appearance	colourless, clear liquid	
Assay	min. 38 max. 42 %	
Free boric acid (H ₃ BO ₃)	max. 2,5 %	
Barium fluorosilicate acid (H ₂ SiF ₆)	max. 0,25 %	
Chlorides (Cl)	max. 0,005 %	
Sulfates (SO ₄)	max. 0,03 %	
Lead, copper, zinc (Pb+Cu+Zn)	max. 0,003 %	
Iron (Fe)	max. 0,002 %	

C, R: 34



HYDROCHLORIC ACID 18% PURE		G01802
Chemical formula	HCl	
Density	1,09 g/cm ³	
CAS	7647-01-0	
UN number	UN 1789	
EINECS	231-595-7	
Molecular Weight	36,46 g/mol	
Appearance	colourless or light-yellow, clear liquid	
Assay	min. 18 %	
Residue on ignition (as SO ₄)	max. 0,002 %	
Sulfates (SO ₄)	max. 0,0005 %	
Sulfites (SO ₃)	max. 0,001 %	
Free chlorine (Cl ₂)	max. 0,0002 %	
Heavy metals (as Pb)	max. 0,0002 %	
Arsenic (As)	max. 0,00001 %	
Iron (Fe)	max. 0,0003 %	

Xi, R: 36/37/38



HYDROCHLORIC ACID 25% FOR VETERINARY		X00694
Chemical formula	HCl	
Density	1,12 g/cm ³	
CAS	7647-01-0	
UN number	UN 1789	
EINECS	231-595-7	
Molecular Weight	36,46 g/mol	
Appearance	colourless or light-yellow, clear liquid	
Assay	min. 24,5 max. 25,5 %	

C, R: 34-37



HYDROCHLORIC ACID 35-38% PURE		G00698
Chemical formula	HCl	
Density	1,19 g/cm ³	
CAS	7647-01-0	
UN number	UN 1789	
EINECS	231-595-7	
Molecular Weight	36,46 g/mol	
Appearance	colourless, clear liquid	
Assay	min. 35 max. 38 %	
Residue on ignition (as SO ₄)	max. 0,002 %	
Sulfates (SO ₄)	max. 0,0005 %	
Sulfites (SO ₃)	max. 0,001 %	
Free chlorine (Cl ₂)	max. 0,0002 %	
Heavy metals (as Pb)	max. 0,0002 %	
Arsenic (As)	max. 0,00001 %	
Iron (Fe)	max. 0,0003 %	

C, R: 34-37



HYDROCHLORIC ACID 35-38% P.A.		A00698
Chemical formula	HCl	
Density	1,19 g/cm ³	
CAS	7647-01-0	
UN number	UN 1789	
EINECS	231-595-7	
Molecular Weight	36,46 g/mol	
Appearance	colourless, clear liquid	
Assay	min. 35 max. 38 %	
Residue on ignition (as SO ₄)	max. 0,001 %	
Sulfates (SO ₄)	max. 0,0002 %	
Sulfites (SO ₃)	max. 0,0005 %	
Free chlorine (Cl ₂)	max. 0,0001 %	
Heavy metals (as Pb)	max. 0,0001 %	
Arsenic (As)	max. 0,000005 %	
Zinc (Zn)	max. 0,00005 %	
Aluminium (Al)	max. 0,0001 %	
Magnesium (Mg)	max. 0,00005 %	
Manganese (Mn)	max. 0,00005 %	
Copper (Cu)	max. 0,00005 %	
Nickel (Ni)	max. 0,00005 %	
Lead (Pb)	max. 0,00005 %	
Iron (Fe)	max. 0,0001 %	

C, R: 34-37



HYDROCHLORIC ACID 37% P.A.		A00702
Chemical formula	HCl	
Density	1,19 g/cm ³	
CAS	7647-01-0	
UN number	UN 1789	
EINECS	231-595-7	
Molecular Weight	36,46 g/mol	
Appearance	colourless, clear liquid	
Assay	min. 37 %	
Residue on ignition (as SO ₄)	max. 0,001 %	
Sulfates (SO ₄)	max. 0,0002 %	
Sulfites (SO ₃)	max. 0,0005 %	
Free chlorine (Cl ₂)	max. 0,0001 %	
Heavy metals (as Pb)	max. 0,0001 %	
Arsenic (As)	max. 0,000005 %	
Zinc (Zn)	max. 0,00005 %	
Aluminium (Al)	max. 0,0001 %	
Magnesium (Mg)	max. 0,00005 %	
Manganese (Mn)	max. 0,00005 %	
Copper (Cu)	max. 0,00005 %	
Nickel (Ni)	max. 0,00005 %	
Lead (Pb)	max. 0,00005 %	
Iron (Fe)	max. 0,0001 %	

C, R: 34-37



HYDROFLUORIC ACID 40% PURE G00609

Chemical formula	HF
Density	1,13 g/cm ³
CAS	7664-39-3
UN number	UN 1790
EINECS	231-634-8
Molecular Weight	20,01 g/mol
Appearance	colourless, clear liquid
Assay	min. 39 max. 41 %
Residue on ignition (as SO ₄)	max. 0,01 %
Substances reducing KMnO ₄	max. 0,002 %
Chlorides (Cl)	max. 0,005 %
Sulfates (SO ₄)	max. 0,005 %
Silicon (Si)	max. 0,1 %
Magnesium and calcium (Mg+Ca)	max. 0,01 %
Copper and Lead (Cu+Pb)	max. 0,002 %
Iron (Fe)	max. 0,0005 %

T+, C, R: 26/27/28-35



HYDROFLUORIC ACID 40% P.A. A00609

Chemical formula	HF
Density	1,13 g/cm ³
CAS	7664-39-3
UN number	UN 1790
EINECS	231-634-8
Molecular Weight	20,01 g/mol
Appearance	colourless, clear liquid
Assay	min. 39 max. 41 %
Residue on ignition (as SO ₄)	max. 0,005 %
Substances reducing KMnO ₄	max. 0,001 %
Chlorides (Cl)	max. 0,003 %
Phosphates (PO ₄)	max. 0,001 %
Sulfates (SO ₄)	max. 0,002 %
Sulfites (SO ₃)	max. 0,004 %
Silicon (Si)	max. 0,05 %
Magnesium and calcium (Mg+Ca)	max. 0,005 %
Copper and Lead (Cu+Pb)	max. 0,001 %
Iron (Fe)	max. 0,0003 %

T+, C, R: 26/27/28-35



NITRIC ACID 65% PURE G00586

Chemical formula	HNO ₃
Density	1,4 g/cm ³
CAS	7697-37-2
UN number	UN 2031
EINECS	231-714-2
Molecular Weight	63,01 g/mol
Appearance	colourless or slightly yellow, clear liquid
Assay	min. 65 %
Residue on ignition (as SO ₄)	max. 0,005 %
Chlorides (Cl)	max. 0,0003 %
Phosphates (PO ₄)	max. 0,001 %
Sulfates (SO ₄)	max. 0,001 %
Heavy metals (as Pb)	max. 0,0003 %
Arsenic (As)	max. 0,000003 %
Chromium (Cr)	max. 0,0002 %
Zinc (Zn)	max. 0,00005 %
Magnesium (Mg)	max. 0,0001 %
Manganese (Mn)	max. 0,00005 %
Copper (Cu)	max. 0,00005 %
Nickel (Ni)	max. 0,0001 %
Lead (Pb)	max. 0,0001 %
Iron (Fe)	max. 0,0005 %

C, R: 35



NITRIC ACID 65% SPECIALLY PURE P00586

Chemical formula	HNO ₃
Density	1,4 g/cm ³
CAS	7697-37-2
UN number	UN 2031
EINECS	231-714-2
Molecular Weight	63,01 g/mol
Appearance	colourless or slightly yellow, clear liquid
Assay	min. 65 %
Residue on ignition (as SO ₄)	max. 5 ppm
Chlorides (Cl)	max. 0,5 ppm
Sulfates (SO ₄)	max. 1 ppm
Arsenic (As)	max. 0,05 ppm
Barium (Ba)	max. 0,02 ppm
Beryllium (Be)	max. 0,01 ppm
Chromium (Cr)	max. 0,1 ppm
Zinc (Zn)	max. 0,05 ppm
Zirconium (Zr)	max. 0,1 ppm
Germanium (Ge)	max. 0,05 ppm
Aluminium (Al)	max. 0,05 ppm
Cadmium (Cd)	max. 0,02 ppm
Cobalt (Co)	max. 0,01 ppm
Lithium (Li)	max. 0,01 ppm
Magnesium (Mg)	max. 0,1 ppm
Manganese (Mn)	max. 0,01 ppm
Copper (Cu)	max. 0,01 ppm
Molybdenum (Mo)	max. 0,02 ppm
Nickel (Ni)	max. 0,05 ppm
Lead (Pb)	max. 0,05 ppm
Potassium (K)	max. 0,1 ppm
Sodium (Na)	max. 0,5 ppm
Silver (Ag)	max. 0,01 ppm
Strontium (Sr)	max. 0,01 ppm
Titanium (Ti)	max. 0,1 ppm
Tal (Tl)	max. 0,05 ppm
Vanadium (V)	max. 0,01 ppm
Calcium (Ca)	max. 0,5 ppm
Iron (Fe)	max. 0,1 ppm
Mercury (Hg)	max. 5 ppb

C, R: 35



NITRIC ACID 65% P.A. A00586

Chemical formula	HNO ₃
Density	1,4 g/cm ³
CAS	7697-37-2
UN number	UN 2031
EINECS	231-714-2
Molecular Weight	63,01 g/mol
Appearance	colourless or slightly yellow, clear liquid
Assay	min. 65 %
Residue on ignition (as SO ₄)	max. 0,002 %
Chlorides (Cl)	max. 0,0001 %
Phosphates (PO ₄)	max. 0,00005 %
Sulfates (SO ₄)	max. 0,0002 %
Heavy metals (as Pb)	max. 0,0001 %
Arsenic (As)	max. 0,000002 %
Chromium (Cr)	max. 0,00005 %
Zinc (Zn)	max. 0,00005 %
Aluminium (Al)	max. 0,0001 %
Magnesium (Mg)	max. 0,00005 %
Manganese (Mn)	max. 0,00005 %
Copper (Cu)	max. 0,00005 %
Nickel (Ni)	max. 0,00005 %
Lead (Pb)	max. 0,00005 %
Iron (Fe)	max. 0,0001 %

C, R: 35



ORTHO-PHOSPHORIC ACID 85% PURE G00660

Chemical formula	H ₃ PO ₄
Density	1,71 g/cm ³
CAS	7664-38-2
UN number	UN 1805
EINECS	231-633-2
Molecular Weight	98,00 g/mol
Appearance	colourless, clear, syrupy liquid
Assay	min. 84,5 %
Density (20°C)	min. 1,678
Reducing substances (as H ₃ PO ₃)	max. 1,721 g/cm ³
Nitrate (NO ₃)	max. 0,1 %
Chlorides (Cl)	max. 0,001 %
Sulfates (SO ₄)	max. 0,01 %
Heavy metals (as Pb)	max. 0,002 %
Arsenic (As)	max. 0,0002 %
Magnesium and calcium (Mg+Ca)	max. 0,02 %
Iron (Fe)	max. 0,005 %

C, R: 34



ORTHO-PHOSPHORIC ACID 85% P.A. A00660

Chemical formula	H ₃ PO ₄
Density	1,71 g/cm ³
CAS	7664-38-2
UN number	UN 1805
EINECS	231-633-2
Molecular Weight	98,00 g/mol
Appearance	colourless, clear, syrupy liquid
Assay	min. 84,5 max. 87 %
Density (20°C)	min. 1,691 max. 1,721 g/cm ³
Reducing substances (as H ₃ PO ₃)	max. 0,005 %
Nitrate (NO ₃)	max. 0,0006 %
Chlorides (Cl)	max. 0,0005 %
Sulfates (SO ₄)	max. 0,003 %
Arsenic (As)	max. 0,00005 %
Copper (Cu)	max. 0,00002 %
Lead (Pb)	max. 0,00005 %
Potassium (K)	max. 0,002 %
Sodium (Na)	max. 0,002 %
Calcium (Ca)	max. 0,002 %
Iron (Fe)	max. 0,0005 %

C, R: 34


OXALIC ACID DIHYDRATE (ACS) P.A. A00706

Chemical formula	C ₂ H ₂ O ₄ · 2H ₂ O; HOOC-COOH · 2H ₂ O
CAS	6153-56-6
EINECS	205-634-3
Molecular Weight	126,07 g/mol
Appearance	colourless crystals
Assay	min. 99,5 max. 102,5 %
Substances insoluble in water	max. 0,005 %
Residue on ignition	max. 0,01 %
Substances darkened by H ₂ SO ₄	passes test
Nitrogen (N)	max. 0,001 %
Chlorides (Cl)	max. 0,0005 %
Sulfates (SO ₄)	max. 0,005 %
Heavy metals (as Pb)	max. 0,0005 %
Magnesium (Mg)	max. 0,002 %
Copper (Cu)	max. 0,0005 %
Lead (Pb)	max. 0,0005 %
Calcium (Ca)	max. 0,001 %
Iron (Fe)	max. 0,0002 %

Xn, R: 21/22


PERCHLORIC ACID 60% P.A. A00647

Chemical formula	HClO ₄
Density	1,53 g/cm ³
CAS	7601-90-3
UN number	UN 1873
EINECS	231-512-4
Molecular Weight	100,46 g/mol
Assay	min. 60 %
Nitrogen (N)	max. 0,005 %
Chlorides (Cl)	max. 0,0003 %
Sulfates (SO ₄)	max. 0,005 %
Barium (Ba)	max. 0,001 %
Bismuth (Bi)	max. 0,0001 %
Zinc (Zn)	max. 0,0001 %
Cadmium (Cd)	max. 0,0001 %
Cobalt (Co)	max. 0,0001 %
Magnesium (Mg)	max. 0,0005 %
Manganese (Mn)	max. 0,00005 %
Copper (Cu)	max. 0,0001 %
Nickel (Ni)	max. 0,0001 %
Lead (Pb)	max. 0,0005 %
Strontium (Sr)	max. 0,000002 %
Titanium (Ti)	max. 0,00001 %
Calcium (Ca)	max. 0,0001 %
Iron (Fe)	max. 0,0002 %

O, C, R: 5-8-35


PHTHALIC ACID PURE G00616

Chemical formula	C ₈ H ₆ O ₄ ; C ₆ H ₄ (COOH) ₂
CAS	88-99-3
EINECS	201-873-2
Molecular Weight	166,13 g/mol
Appearance	white, crystalline powder
Assay	min. 99 %
Residue on ignition (as SO ₄)	max. 0,02 %
Chlorides (Cl)	max. 0,005 %
Sulfates (SO ₄)	max. 0,01 %
Heavy metals (as Pb)	max. 0,002 %
Iron (Fe)	max. 0,002 %

Xi, R: 36/37/38


PHTHALIC ACID P.A. A00616

Chemical formula	C ₈ H ₆ O ₄ ; C ₆ H ₄ (COOH) ₂
CAS	88-99-3
EINECS	201-873-2
Molecular Weight	166,14 g/mol
Appearance	white, crystalline powder
Assay	min. 99,5 %
Residue on ignition (as SO ₄)	max. 0,01 %
Chlorides (Cl)	max. 0,001 %
Sulfates (SO ₄)	max. 0,001 %
Heavy metals (as Pb)	max. 0,001 %
Iron (Fe)	max. 0,001 %

Xi, R: 36/37/38


SULFURIC ACID 69% PURE G00682

Chemical formula	H ₂ SO ₄
Density	1,6 g/cm ³
CAS	7664-93-9
UN number	UN 1830
EINECS	231-639-5
Molecular Weight	98,08 g/mol
Appearance	colourless, oily liquid
Assay	min. 68 max. 70 %
Residue on ignition	max. 0,005 %
Substances reducing KMnO ₄ (as SO ₂)	max. 0,001 %
Nitrate (NO ₃)	max. 0,0005 %
Chlorides (Cl)	max. 0,0005 %
Ammonia salts (NH ₄)	max. 0,001 %
Heavy metals (as Pb)	max. 0,0005 %
Arsenic (As)	max. 0,00001 %
Selenium (Se)	max. 0,001 %
Iron (Fe)	max. 0,0005 %

C, R: 35


SULFURIC ACID 91% PURE G00683

Chemical formula	H ₂ SO ₄
Density	1,82 g/cm ³
CAS	7664-93-9
UN number	UN 1830
EINECS	231-639-5
Molecular Weight	98,08 g/mol
Appearance	colourless, clear liquid
Assay	min. 90 max. 92 %
Residue on ignition	max. 0,005 %
Substances reducing KMnO ₄ (as SO ₂)	max. 0,001 %
Nitrate (NO ₃)	max. 0,0005 %
Chlorides (Cl)	max. 0,0005 %
Ammonia salts (NH ₄)	max. 0,001 %
Heavy metals (as Pb)	max. 0,0005 %
Arsenic (As)	max. 0,00001 %
Selenium (Se)	max. 0,001 %
Iron (Fe)	max. 0,0005 %

C, R: 35



SULFURIC ACID MIN.95% PURE G00687

Chemical formula	H ₂ SO ₄
Density	1,84 g/cm ³
CAS	7664-93-9
UN number	UN 1830
EINECS	231-639-5
Molecular Weight	98,08 g/mol
Appearance	colourless, clear, oily liquid
Assay	min. 95 %
Residue on ignition	max. 0,005 %
Substances reducing KMnO ₄ (as SO ₂)	max. 0,001 %
Nitrate (NO ₃)	max. 0,0005 %
Chlorides (Cl)	max. 0,0005 %
Ammonia salts (NH ₄)	max. 0,001 %
Heavy metals (as Pb)	max. 0,0005 %
Arsenic (As)	max. 0,00001 %
Selenium (Se)	max. 0,001 %
Iron (Fe)	max. 0,0005 %

C, R: 35

**TRICHLOROACETIC ACID P.A.** A00708

Chemical formula	C ₂ HCl ₃ O ₂ ; CCl ₃ COOH
CAS	76-03-9
UN number	UN 1839
EINECS	200-927-2
Molecular Weight	163,39 g/mol
Assay	min. 98 %
Water	max. 0,5 %
Dichloroacetic acid	max. 1,2 %
Assay of sulfuric acid	max. 0,3 %
Iron (Fe)	max. 0,001 %

C, N, R: 35-50/53

**SULFURIC ACID MIN.96% P.A.** A00687

Chemical formula	H ₂ SO ₄
Density	1,84 g/cm ³
CAS	7664-93-9
UN number	UN 1830
EINECS	231-639-5
Molecular Weight	98,08 g/mol
Appearance	colourless, clear, oily liquid
Assay	min. 95 %
Residue on ignition	max. 0,001 %
Substances reducing KMnO ₄ (as SO ₂)	max. 0,0003 %
Nitrate (NO ₃)	max. 0,0002 %
Chlorides (Cl)	max. 0,0001 %
Ammonia salts (NH ₄)	max. 0,0003 %
Heavy metals (as Pb)	max. 0,0002 %
Arsenic (As)	max. 0,000005 %
Barium (Ba)	max. 0,00005 %
Chromium (Cr)	max. 0,00005 %
Zinc (Zn)	max. 0,00005 %
Aluminium (Al)	max. 0,0001 %
Cadmium (Cd)	max. 0,00005 %
Cobalt (Co)	max. 0,00005 %
Magnesium (Mg)	max. 0,00005 %
Manganese (Mn)	max. 0,00005 %
Copper (Cu)	max. 0,00005 %
Nickel (Ni)	max. 0,00005 %
Lead (Pb)	max. 0,0002 %
Selenium (Se)	max. 0,0003 %
Strontium (Sr)	max. 0,00005 %
Calcium (Ca)	max. 0,00005 %
Iron (Fe)	max. 0,0001 %

C, R: 35

**L(+)-TARTARIC ACID (ACS) P.A.** A00630

Chemical formula	C ₄ H ₆ O ₆
Density	1,76 g/cm ³
CAS	87-69-4
EINECS	201-766-0
Molecular Weight	150,09 g/mol
Appearance	colourless crystals
Assay	min. 99,5 %
Specific rotation (20°C, 10%, H ₂ O)	+12 ÷ +13 °
Substances insoluble in water	max. 0,005 %
Straty po suszeniu (105°C)	max. 0,5 %
Residue on ignition (as SO ₄)	max. 0,01 %
Chlorides (Cl)	max. 0,0005 %
Phosphates (PO ₄)	max. 0,001 %
Oxalates	max. 0,03 %
Sulfates (SO ₄)	max. 0,002 %
Heavy metals (as Pb)	max. 0,0005 %
Arsenic (As)	max. 0,00002 %
Magnesium (Mg)	max. 0,002 %
Copper (Cu)	max. 0,0005 %
Nickel (Ni)	max. 0,0005 %
Lead (Pb)	max. 0,0005 %
Calcium (Ca)	max. 0,002 %
Iron (Fe)	max. 0,0005 %

Xi, R: 36



CONCENTRATED VOLUMETRIC & VOLUMETRIC SOLUTIONS

We supply wide range of concentrated volumetric solutions for volumetric solutions preparation – acids, bases as well as salts.

All offered CVS are designed to produce volumetric solution in easy and fast way.



CONCENTRATED VOLUMETRIC SOLUTION AMMONIUM THIOCYANATE 0,1 MOL/L V00140

Chemical formula	NH ₄ SCN
Density	1,06 g/cm ³
CAS	1762-95-4
EINECS	217-175-6
Molecular Weight	76,12 g/mol
Concentration after dilution to 1000 ml in 20°C	c(NH ₄ SCN)=0,1mol/l +/-0,2 %

Xn, R: 20/21/22-32



CONCENTRATED VOLUMETRIC SOLUTION DI-SODIUM OXALATE 0,05 MOL/L (0,1 N) V01493

Chemical formula	C ₂ Na ₂ O ₄ ; NaOCCOONa
Density	1,03 g/cm ³
CAS	62-76-0
UN number	UN 2810
EINECS	200-550-3
Molecular Weight	134,01 g/mol
Concentration after dilution to 1000 ml in 20°C	c(Na ₂ C ₂ O ₄)=0,05mol/l +/-0,2 %

Xn, R: 21/22



CONCENTRATED VOLUMETRIC SOLUTION DI-SODIUM WERSENATE 0,05 MOL/L V00378

Chemical formula	C ₁₀ H ₁₄ N ₂ Na ₂ O ₈
Density	1,0 g/cm ³
CAS	139-33-3
EINECS	205-358-3
Molecular Weight	336,21 g/mol
Concentration after dilution to 1000 ml in 20°C	c(di-NaEDTA)=0,05mol/l +/-0,2%

CONCENTRATED VOLUMETRIC SOLUTION HYDROCHLORIC ACID 0,1 MOL/L (0,1 N) V00688

Chemical formula	HCl
Density	1,07 g/cm ³
CAS	7647-01-0
EINECS	231-595-7
Molecular Weight	36,46 g/mol
Concentration after dilution to 1000 ml in 20°C	c(HCl)=0,1mol/l +/-0,2 %

CONCENTRATED VOLUMETRIC SOLUTION HYDROCHLORIC ACID 0,2 MOL/L (0,2 N) V01544

Chemical formula	HCl
Density	1,1 g/cm ³
CAS	7647-01-0
UN number	UN 1789
EINECS	231-595-7
Molecular Weight	36,46 g/mol
Concentration after dilution to 1000 ml in 20°C	c(HCl)=0,2mol/l +/-0,2 %

Xi, R: 36/37/38



CONCENTRATED VOLUMETRIC SOLUTION HYDROCHLORIC ACID 1 MOL/L (1 N) V01673

Chemical formula	HCl
Density	1,08 g/cm ³
CAS	7647-01-0
UN number	UN 1789
EINECS	231-595-7
Molecular Weight	36,46 g/mol
Concentration after dilution to 1000 ml in 20°C	c(HCl)=1mol/l +/-0,2 %

Xi, R: 36/37/38



CONCENTRATED VOLUMETRIC SOLUTION IODINE 0,05 MOL/L (0,1N) V00516

Density	1,8 g/cm ³
Concentration after dilution to 1000 ml in 20°C	c(I ₂)=0,05mol/l +/-0,2 %

N, R: 51



CONCENTRATED VOLUMETRIC SOLUTION NITRIC ACID 0,1 MOL/L (0,1 N) V00579

Chemical formula	HNO ₃
Density	1,08 g/cm ³
CAS	7697-37-2
UN number	UN 2031
EINECS	231-714-2
Molecular Weight	63,01 g/mol
Concentration after dilution to 1000 ml in 20°C	c(HNO ₃)=0,1mol/l +/-0,2 %

C, R: 34



CONCENTRATED VOLUMETRIC SOLUTION OXALIC ACID 0,05 MOL/L (0,1 N) V00705

Chemical formula	C ₂ H ₂ O ₄
Molecular Weight	90,03 g/mol
Concentration after dilution to 1000 ml in 20°C	c(C ₂ H ₂ O ₄)=0,05mol/l +/-0,2 %

C, R: 34-52/53



CONCENTRATED VOLUMETRIC SOLUTION POTASSIUM DICHROMATE 1/60 MOL/L (0,1 N) V00989

Chemical formula	$K_2Cr_2O_7$
Density	1,03 g/cm ³
CAS	7778-50-9
UN number	UN 3082
EINECS	231-906-6
Molecular Weight	294,19 g/mol
Concentration after dilution to 1000 ml in 20°C	$c(K_2Cr_2O_7)=1/60mol/l$ +/-0,2 %

T, N, R: 49-20/22-43-51/53



CONCENTRATED VOLUMETRIC SOLUTION POTASSIUM HYDROXIDE 0,1 MOL/L (0,1 N) V01029

Chemical formula	KOH
CAS	1310-58-3
UN number	UN 1814
EINECS	215-181-3
Molecular Weight	56,11 g/mol
Concentration after dilution to 1000 ml in 20°C	$c(KOH)=0,1mol/l$ +/-0,2 %

C, R: 35



CONCENTRATED VOLUMETRIC SOLUTION POTASSIUM IODATE- IODIDE 0,05 MOL/L (0,1 N) V01004

Chemical formula	$KIO_3 - KI$
Density	1,03 g/cm ³
Concentration after dilution to 1000 ml in 20°C	$c(I_2)=0,05mol/l$ +/-0,2 %

CONCENTRATED VOLUMETRIC SOLUTION POTASSIUM IODIDE 0,1 MOL/L (0,1 N) V01005

Chemical formula	KI
Density	1,02 g/cm ³
CAS	7681-11-0
EINECS	231-659-4
Molecular Weight	166,01 g/mol
Concentration after dilution to 1000 ml in 20°C	$c(KI)=0,1mol/l$ +/-0,2 %

CONCENTRATED VOLUMETRIC SOLUTION POTASSIUM PERMANGANATE 0,02 MOL/L (0,1 N) V01008

Chemical formula	$KMnO_4$
CAS	7722-64-7
UN number	UN 1490
EINECS	231-760-3
Molecular Weight	158,04 g/mol
Concentration after dilution to 1000 ml in 20°C	$c(KMnO_4)=0,02mol/l$ +/-2 %

O, Xn, N, R: 8-22-50/53



CONCENTRATED VOLUMETRIC SOLUTION SILVER NITRATE 0,1 MOL/L (0,1 N) V01463

Chemical formula	$AgNO_3$
Density	1,01 g/cm ³
CAS	7761-88-8
UN number	UN 1760
EINECS	231-853-9
Molecular Weight	169,87 g/mol
Concentration after dilution to 1000 ml in 20°C	$c(AgNO_3)=0,1mol/l$ +/-0,2 %

C, R: 34-52/53



CONCENTRATED VOLUMETRIC SOLUTION SODIUM HYDROXIDE 0,1 MOL/L (0,1 N) V01219

Chemical formula	NaOH
Density	1,09 g/cm ³
CAS	1310-73-2
UN number	UN 1824
EINECS	215-185-5
Molecular Weight	40,00 g/mol
Concentration after dilution to 1000 ml in 20°C	$c(NaOH)=0,1mol/l$ +/-0,2 %

C, R: 35



CONCENTRATED VOLUMETRIC SOLUTION SODIUM THIOSULFATE 0,1 MOL/L (0,1 N) V01464

Chemical formula	$Na_2S_2O_3$
Density	1,22 g/cm ³
CAS	7772-98-7
EINECS	231-867-5
Molecular Weight	158,11 g/mol
Concentration after dilution to 1000 ml in 20°C	$c(Na_2S_2O_3)=0,1mol/l$ +/-0,2%

CONCENTRATED VOLUMETRIC SOLUTION SULFURIC ACID 0,05 MOL/L (0,1 N) V00672

Chemical formula	H_2SO_4
Density	1,07 g/cm ³
CAS	7664-93-9
UN number	UN 2796
EINECS	231-639-5
Molecular Weight	98,08 g/mol
Concentration after dilution to 1000 ml in 20°C	$c(H_2SO_4)=0,05mol/l$ +/-0,2 %

Xi, R: 36/38



ETHYLENEDIAMINETETRAACETIC ACID DISODIUM SALT VOLUMETRIC SOLUTION 0,01 MOL/L S01412

Chemical formula	$C_{10}H_{16}N_2O_8Na_2 \cdot 2H_2O$
Density	1,03 g/cm ³
CAS	139-33-3
EINECS	205-358-3
Molecular Weight	372,24 g/mol
Amount-of-substance concentration (20°C)	c(di-Na-EDTA)=0,01mol/l +/-2%

ETHYLENEDIAMINETETRAACETIC ACID DISODIUM SALT VOLUMETRIC SOLUTION 0,05 MOL/L S01411

Chemical formula	$C_{10}H_{16}N_2O_8Na_2 \cdot 2H_2O$
Density	1,03 g/cm ³
CAS	139-33-3
EINECS	205-358-3
Molecular Weight	372,24 g/mol
Amount-of-substance concentration (20°C)	c(di-Na-EDTA)=0,05mol/l +/-0,2%

HYAMINE®1622-VOLUMETRIC SOLUTION 0,004 MOL/L S01424

Chemical formula	$C_{27}H_{42}ClNO_2$
Density	~1,0 g/cm ³
CAS	121-54-0
EINECS	204-479-9
Molecular Weight	448,18 g/mol
Amount-of-substance concentration (20°C)	c(Hyamime®1622)=0,004M +/-2,5%

HYDROCHLORIC ACID VOLUMETRIC SOLUTION 0,1 MOL/L (0,1 N) S00689

Chemical formula	HCl
Density	1,00 g/cm ³
CAS	7647-01-0
EINECS	231-595-7
Molecular Weight	36,46 g/mol
Amount-of-substance concentration (20°C)	c(HCl)=0,1mol/l +/-0,2%

HYDROCHLORIC ACID VOLUMETRIC SOLUTION 0,5 MOL/L (0,5 N) S00691

Chemical formula	HCl
Density	1,008 g/cm ³
CAS	7647-01-0
EINECS	231-595-7
Molecular Weight	36,46 g/mol
Amount-of-substance concentration (20°C)	c(HCl)=0,5mol/l +/-0,2%

HYDROCHLORIC ACID VOLUMETRIC SOLUTION 1 MOL/L (1 N) S00692

Chemical formula	HCl
Density	1,02 g/cm ³
CAS	7647-01-0
EINECS	231-595-7
Molecular Weight	36,47 g/mol
Amount-of-substance concentration (20°C)	c(HCl)=1mol/l +/-0,2%

POTASSIUM CHLORIDE VOLUMETRIC SOLUTION 3 MOL/L S01425

Chemical formula	KCl
Density	1,13 g/cm ³
CAS	7447-40-7
EINECS	231-211-8
Molecular Weight	74,56 g/mol
Amount-of-substance concentration (20°C)	c(KCl)=3 mol/l +/-0,2%

POTASSIUM PERMANGANATE VOLUMETRIC SOLUTION 0,02 MOL/L S01416

Chemical formula	$KMnO_4$
Density	1 g/cm ³
CAS	7722-64-7
EINECS	231-760-3
Molecular Weight	158,04 g/mol
Amount-of-substance concentration (20°C)	c(KMnO4)=0,02 mol/l +/-0,2%

SILVER NITRATE VOLUMETRIC SOLUTION 0,02 MOL/L (0,02N) S01440

Chemical formula	$AgNO_3$
Density	1 g/cm ³
CAS	7761-88-8
EINECS	231-853-9
Molecular Weight	169,87 g/mol
Amount-of-substance concentration (20°C)	c(AgNO3)=0,02 mol/l +/-2%
Amount-of-substance concentration (20°C)	c(AgNO3)=0,02mol/l +/-2%

R: 52/53

R: 52/53

SILVER NITRATE VOLUMETRIC SOLUTION 0,1 MOL/L (0,1N) S01241

Chemical formula	AgNO ₃
Density	1,01 g/cm ³
CAS	7761-88-8
EINECS	231-853-9
Molecular Weight	169,87 g/mol
Amount-of-substance concentration (20°C)	c(AgNO ₃)=0,1mol/l +/-0,2%

R: 52/53

SODIUM HYDROXIDE VOLUMETRIC SOLUTION 0,1 MOL/L (0,1 N) S01220

Chemical formula	NaOH
Density	1,00 g/cm ³
CAS	1310-73-2
EINECS	215-185-5
Molecular Weight	40,00 g/mol
Amount-of-substance concentration (20°C)	c(NaOH)=0,1mol/l +/-0,2%

SODIUM HYDROXIDE VOLUMETRIC SOLUTION 0,25 MOL/L (0,25 N) S01221

Chemical formula	NaOH
Density	1,01 g/cm ³
CAS	1310-73-2
UN number	UN 1824
EINECS	215-185-5
Molecular Weight	40,00 g/mol
Amount-of-substance concentration (20°C)	c(NaOH)=0,25mol/l +/-0,2%

Xi, R: 36/38

**SODIUM HYDROXIDE VOLUMETRIC SOLUTION 0,5 MOL/L (0,5 N)** S01222

Chemical formula	NaOH
Density	1,02 g/cm ³
CAS	1310-73-2
UN number	UN 1824
EINECS	215-185-5
Molecular Weight	40,00 g/mol
Amount-of-substance concentration (20°C)	c(NaOH)=0,5mol/l +/-0,2%

Xi, R: 36/38

**SODIUM HYDROXIDE VOLUMETRIC SOLUTION 1 MOL/L (1 N)** S01223

Chemical formula	NaOH
Density	1,045 g/cm ³
CAS	1310-73-2
UN number	UN 1824
EINECS	215-185-5
Molecular Weight	40,00 g/mol
Amount-of-substance concentration (20°C)	c(NaOH)=1mol/l +/-0,2%

C, R: 34

**SODIUM THIOSULFATE VOLUMETRIC SOLUTION 0,1MOL/L** S01413

Chemical formula	Na ₂ S ₂ O ₃
Density	1,01 g/cm ³
CAS	7772-98-7
EINECS	231-867-5
Molecular Weight	158,11 g/mol
Amount-of-substance concentration (20°C)	c(Na ₂ S ₂ O ₃)=0,1 +/-0,2%

SULFURIC ACID VOLUMETRIC SOLUTION 0,05 MOL/L (0,1 N) S00673

Chemical formula	H ₂ SO ₄
Density	1,00 g/cm ³
CAS	7664-93-9
EINECS	231-639-5
Molecular Weight	98,08 g/mol
Amount-of-substance concentration (20°C)	c(H ₂ SO ₄)=0,05mol/l +/-0,2%

SULFURIC ACID VOLUMETRIC SOLUTION 0,5 MOL/L (1N SOLUTION) S00676

Chemical formula	H ₂ SO ₄
Density	1,032 g/cm ³
CAS	7664-93-9
EINECS	231-639-5
Molecular Weight	98,08 g/mol
Amount-of-substance concentration (20°C)	c(H ₂ SO ₄)=0,5mol/l +/-0,2%

SULFURIC ACID VOLUMETRIC SOLUTION 1 MOL/L (2 N) S00677

Chemical formula	H ₂ SO ₄
Density	1,065 g/cm ³
CAS	7664-93-9
UN number	UN 2796
EINECS	231-639-5
Molecular Weight	98,09 g/mol
Amount-of-substance concentration (20°C)	c(H ₂ SO ₄)=1mol/l +/-0,2%

Xi, R: 36/38



BUFFER SOLUTIONS

Buffer solutions purposed to calibrate pH-meters and in pharmaceutical industry to perform reactions in certain pH conditions.
The company manufactures wide range of pH buffers from pH 1 to 10.



BUFFER SOLUTION PH 2,00 (+/-) 0,05 B01086

Density	1,01 g/cm ³
Appearance	colourless, clear liquid
pH (20°C)	1,95-2,05

BUFFER SOLUTION PH 4,00 (+/-) 0,05 B01088

Density	1,01 g/cm ³
Appearance	colourless, clear liquid
pH (20°C)	3,95-4,05

BUFFER SOLUTION PH 6,80 (+/-) 0,05 B03001

Density	1,01 g/cm ³
Appearance	colourless, clear liquid
pH (20°C)	6,75 - 6,85

BUFFER SOLUTION PH 7,00 (+/-) 0,05 B01091

Density	1,01 g/cm ³
Appearance	colourless, clear liquid
pH (20°C)	6,95-7,05

BUFFER SOLUTION PH 9,00 (+/-) 0,05 B01093

Density	1,01 g/cm ³
Appearance	colourless, clear liquid
pH (20°C)	8,95-9,05

BUFFER SOLUTION PH 10,00 (+/-) 0,05 B01085

Density	1,01 g/cm ³
Appearance	colourless, clear liquid
pH (20°C)	9,95 - 10,05

INDICATORS

Our indicators are produced against the finest standards and have common use in pH value determination or selective detection of particular reagents.



1-2-PIRYLYDAZO-2-NAPHTOL P.A. INDICATOR A00003

Chemical formula	C ₁₈ H ₁₁ N ₃ O
CAS	85-85-8
EINECS	201-637-9
Molecular Weight	249,27 g/mol
Appearance	orange - red powder
Absorptivity (1 %; 1 cm; 470*5 nm)	min. 720
Melting point in a range of 1°C	139-141 °C
Loss on drying (110°C)	max. 0,5 %
Solubility in ethanol	passes test
Sensitivity to copper	min. 0,0000005 g/ml
TLC test	passes test

1,10-PHENANTHROLINE HYDROCHLORIDE MONOHYDRATE P.A. INDICATOR A00008

Chemical formula	C ₁₂ H ₉ ClN ₂ · H ₂ O
CAS	18851-33-7
UN number	UN 2811
EINECS	223-325-1
Molecular Weight	234,69 g/mol
Appearance	white or slightly cream-pink powder
Assay (calculated on dried substance)	min. 99,5 %
Water	max. 8 %
Sensitivity to ions of iron Fe ²⁺	min. 0,0000001 g/ml
Residue on ignition (as SO ₄)	max. 0,2 %
Suitability as redox indicator	passes test

1,10-PHENANTHROLINE P.A. INDICATOR A00007

Chemical formula	C ₁₂ H ₉ N ₂ · H ₂ O
CAS	5144-89-8
UN number	UN 2811
EINECS	200-629-2
Molecular Weight	198,23 g/mol
Appearance	white crystals
Assay	min. 99,5 %
E (pH 4,5; 505-520 nm)	min. 11000
Water	min. 8,5 max. 9,5 %
Suitability as redox indicator	passes test
Residue on ignition (as SO ₄)	max. 0,05 %

T, N, R: 25-50/53



T, N, R: 25-50/53



2,2'-BIQUINOLINE P.A. A00046

Chemical formula	C ₁₈ H ₁₂ N ₂ ; (CH:CHC ₈ H ₆ N:C) ₂
CAS	119-91-5
EINECS	204-357-5
Molecular Weight	256,31 g/mol
Appearance	white or pale yellow crystals or powder
Assay	min. 99 %
Molar absorptivity index of complex with Cu⁺</sup>	
E (530-560 nm; isoamyl alcohol)	min. 6300
Solubility in amyl alcohol	passes test
Residue on ignition (as SO ₄)	max. 0,05 %

AZOMETHIN-H MONOSODIUM SALT I01678

Chemical formula	C ₁₇ H ₁₂ NNaO ₈ S ₂
CAS	5941-07-1
EINECS	227-698-1
Molecular Weight	445,39 g/mol
Loss on drying (105°C)	max. 2 %
Absorptivity(1 %; 1 cm; 236 nm; pH 5,1)	min. 1200
Sensitivity test for boron ions (B)	max. 0,0000001 g/ml
Solubility in water	passes test
TLC test	passes test

BROMOCRESOL GREEN INDICATOR I01390

Chemical formula	C ₂₁ H ₁₄ Br ₄ O ₅ S
CAS	76-60-8
EINECS	200-972-8
Molecular Weight	698,04 g/mol
Appearance	white or yellow-brown powder
Molar absorptivity:	
E (pH 3,4; 420-440 nm)	min. 12300
E (pH 5,8; 580-620 nm)	min. 31000
Solubility in ethanol	passes test
TLC test	passes test
Transition range pH:	
yellow	min. 3,8
blue	min. 5,4

BROMOCRESOL PURPLE INDICATOR I01056

Chemical formula	C ₂₁ H ₁₆ Br ₂ O ₅ S
CAS	115-40-2
EINECS	207-087-8
Molecular Weight	540,24 g/mol
Appearance	pale pink or violet-pink powder
Molar absorptivity:	
E (pH 5,2; 410-450 nm)	min. 18000
E (pH 6,8; 570-590 nm)	min. 47000
Solubility in ethanol	passes test
Sensitivity for pH change	passes test
TLC test	passes test
Transition range pH:	
yellow	min. 5,2
purple	max. 6,8

BROMOCRESOL PURPLE SODIUM SALT INDICATOR I01055

Chemical formula	C ₂₁ H ₁₆ Br ₂ Na O ₅ S
CAS	62625-30-3
EINECS	263-655-3
Molecular Weight	562,22 g/mol
Appearance	brown powder with red tint
Molar absorptivity:	
E (pH 4,8; 430 nm)	min. 15000
E (pH 7,2; 580 nm)	min. 26000
Solubility in water	passes test
TLC test	passes test
Residue on ignition (as SO ₄)	min. 12 max. 19 %
Transition range pH:	
yellow	min. 5,2
purple	max. 6,8

BROMOTHYMOL BLUE INDICATOR I00224

Chemical formula	C ₂₇ H ₂₆ Br ₂ O ₅ S
CAS	76-59-5
EINECS	200-971-2
Molecular Weight	624,40 g/mol
Appearance	pink powder with violet tint
Molar absorptivity:	
E (pH 6,0; 400-450 nm)	min. 16000
E (pH 7,5; 600-640 nm)	min. 30000
Loss on drying	max. 1,4 %
Solubility in ethanol	passes test
Sensitivity for pH change	passes test
TLC test	passes test

CALCEIN DISODIUM SALT INDICATOR		I00538
Chemical formula	$C_{30}H_{24}O_{13}Na_2$	
CAS	1461-15-0	
EINECS	215-957-1	
Molecular Weight	666,51 g/mol	
Appearance	orange, crystalline powder	
Molar absorptivity:		
E (pH 4,6; 495 + 5 nm)	min. 21000	
Moisture	max. 5 %	
Sensitivity to ions of Ca	min. 0,00000025 g/ml	
TLC test	passes test	
Residue on ignition (as Na ₂ SO ₄)	max. 42 %	
Assay of free fluorescein	max. 6 %	

CHLOROPHENOL RED SODIUM SALT SOLUBLE IN WATER INDICATOR		I00316
Chemical formula	$C_{19}H_{11}Cl_2O_3Na$	
CAS	123333-64-2	
Molecular Weight	445,26 g/mol	
Appearance	brick-red-coloured powder	
Molar absorptivity:		
E (pH 4,8; 430-440 nm)	min. 19500	
E (pH 8,6; 575-585 nm)	min. 60000	
TLC test	passes test	
Residue on ignition (as SO ₄)	max. 16 %	
Transition range pH:		
yellow	min. 4,8	
purple	min. 6,4	

FERROIN SOLUTION 1/40 M INDICATOR		I00437
Chemical formula	$C_{36}H_{24}FeN_6O_4S$	
Density	1,01 g/cm ³	
CAS	14634-91-4	
EINECS	238-676-6	
Molecular Weight	692,54 g/mol	
Appearance	dark-red, clear liquid	
Redox potential E ₀ in 1 molar H ₂ SO ₄	min. 1,05 max. 1,06	
Suitability as redox indicator	passes test	
Absorption spectrum testing	passes test	

R: 52/53

FLUORESCEIN PURE		G00445
Chemical formula	$C_{20}H_{12}O_5$	
CAS	2321-07-5	
EINECS	219-031-8	
Molecular Weight	332,32 g/mol	
Appearance	yellowish-brown or red-brown powder	
Absorptivity (1 %; 1cm; 490+/-5 nm; water + Na ₂ CO ₃)	min. 1800	
Solubility in ethanol	passes test	
Residue on ignition (as SO ₄)	max. 0,5 %	
Assay of resorcinol	max. 3 %	
Loss on drying	max. 3 %	

MALACHITE GREEN /OXALATE/ MICRO STAIN		I01393
Chemical formula	$C_{25}H_{28}N_2O_4$	
CAS	18015-76-4	
EINECS	219-441-7	
Molecular Weight	418,51 g/mol	
Appearance	green crystals	
Molar absorptivity:		
E (610-620 nm; water)	min. 55000	
Moisture	max. 10 %	
TLC test	passes test	
Residue on ignition	max. 2,5 %	
Suitability as biological stain	passes test	

Xn, N, R: 22-41-63-50/53

METHYL ORANGE INDICATOR		I00882
Chemical formula	$C_{14}H_{14}N_3NaO_3S$	
CAS	547-58-0	
UN number	UN 2811	
EINECS	208-925-3	
Molecular Weight	327,34 g/mol	
Appearance	orange, fine crystalline powder	
Solubility in water	passes test	
Sensitivity for pH change	passes test	
Molar absorptivity:		
E (pH 3,0; 480-520 nm)	min. 36000	
E (pH 4,4; 440-480 nm)	min. 24000	
Loss on drying	max. 3 %	
TLC test	passes test	

T, R: 25



METHYL RED INDICATOR		I00326
Chemical formula	$C_{15}H_{15}N_3O_2$	
CAS	493-52-7	
EINECS	207-776-1	
Molecular Weight	269,31 g/mol	
Appearance	red to brown powder	
Molar absorptivity:		
E (pH 6,2; 430 nm)	min. 18000	
E (pH 4,4; 520 nm)	min. 39000	
Moisture	max. 5 %	
Solubility in ethanol	passes test	
TLC test	passes test	
Transition range pH:		
red	min. 4,4	
yellow-orange	min. 6,2	

METHYLTHYMOL BLUE SODIUM SALT INDICATOR		I00230
Chemical formula	$C_{37}H_{40}N_2Na_2O_{13}S$	
CAS	1945-77-3	
EINECS	217-743-3	
Molecular Weight	844,76 g/mol	
Appearance	brown, green-black, black crystalline powder	
Assay	min. 35 %	
Thymol blue	max. 5 %	
Semi-methyl blue	max. 20 %	
Sensitivity to ions of Ca	min. 0,00001 g/ml	
Suitability for Ca ions determination	passes test	

MUREXIDE INDICATOR		I00800
Chemical formula	$C_7H_7N_3O_5$	
CAS	3051-09-0	
EINECS	221-226-6	
Molecular Weight	284,19 g/mol	
Appearance	red-brown, fine crystalline powder	
Assay	min. 65 %	
Solubility in water	passes test	
TLC test	passes test	
Molar absorptivity index of complex with Ca:		
E (pH 11-12; 500-506 nm)	min. 10500	
Suitability for Ca ions determination	passes test	



NAPHTHOL GREEN B MICRO STAIN I01395

Chemical formula	$C_{30}H_{15}FeN_3Na_3O_{15}S_3$
CAS	19381-50-1
EINECS	243-010-2
Molecular Weight	878,47 g/mol
Appearance	dark-green powder
Molar absorptivity:	
E (680÷730 nm; water)	min. 6500
Moisture	max. 10 %
Solubility in water	passes test
TLC test	passes test
Residue on ignition (as SO ₄)	max. 76 %

PHENOL RED (ACS) INDICATOR I00319

Chemical formula	$C_{19}H_{14}O_5S$
CAS	143-74-8
EINECS	205-609-7
Molecular Weight	354,38 g/mol
Appearance	dark red-brown powder
Absorptivity (1%; 1 cm; pH 6,5)	min. 500
Absorptivity (1%; 1 cm; pH 8,0)	min. 1000
Loss on drying	max. 1,5 %
Solubility in ethanol	passes test
TLC test	passes test
Transition range pH:	
yellow	min. 6,8
red	max. 8,2

PHENOLPHTHALEIN 1% SOLUTION INDICATOR I00433

Density	0,9 g/cm ³
UN number	UN 1993
Appearance	colourless, clear liquid
Assay	min. 0,9 max. 1,1 %
Colour	max. 50 Hazen
Sensitivity for pH change	passes test
Transition range pH:	
colourless	min. 8
red-violet	min. 10

F, R: 11

**PHENOLPHTHALEIN 2% SOLUTION INDICATOR I00434**

Density	0,9 g/cm ³
UN number	UN 1993
Appearance	colourless, clear liquid
Assay	min. 1,9 max. 2,1 %
Colour	max. 90 Hazen
Sensitivity for pH change	passes test
Transition range pH:	
colourless	min. 8
red-violet	min. 10
Suitability for milk acidity analysis	passes test

PHENOLPHTHALEIN INDICATOR I00435

Chemical formula	$C_{20}H_{14}O_4$
CAS	77-09-8
EINECS	201-004-7
Molecular Weight	318,33 g/mol
Appearance	white or light-yellow, fine crystalline powder
Molar absorptivity:	
E (pH 9,8; 540÷560 nm)	min. 21000
Solubility in ethanol	passes test
Sensitivity for pH change	passes test
TLC test	passes test
Residue on ignition	max. 0,2 %
Transition range pH:	
colourless	min. 8,2
red-violet	max. 10

SODIUM DIETHYLDITHIOCARBAMATE TRIHYDRATE (ACS) P.A. A00565

Chemical formula	$C_2H_5NNaS_2 \cdot 3H_2O$; $(C_2H_5)_2NCSSNa \cdot 3H_2O$
CAS	20624-25-3
EINECS	205-710-6
Molecular Weight	225,31 g/mol
Appearance	white powder with yellowish or grey shade
Assay	min. 99 %
Solubility in water	passes test
Residue on ignition (as Na ₂ SO ₄)	min. 30,5 max. 32,5 %
Sensitivity to copper	min. 0,0000002 g/ml

F, R: 11



Xn, R: 22

**THYMOL BLUE P.A. INDICATOR A00238**

Chemical formula	$C_{27}H_{30}O_5S$
CAS	76-61-9
EINECS	200-973-3
Molecular Weight	466,6 g/mol
Appearance	green powder or crystal
Molar absorptivity:	
E (pH 1,2; 545÷555 nm)	min. 16000
E (pH 9,6; 595÷605 nm)	min. 16000
Solubility in ethanol	passes test
Sensitivity for pH change	passes test
TLC test	passes test

THYMOLPHTHALEXON DISODIUM SALT INDICATOR I01322

Chemical formula	$C_{38}H_{28}N_2Na_2O_{12}$
CAS	1913-93-5
EINECS	217-627-2
Molecular Weight	764,82 g/mol
Appearance	white, fine crystalline powder
Molar absorptivity:	
E (pH 12, 550÷650 nm)	min. 3000
Solubility in water	passes test
Sensitivity to ions of Ca	min. 0,0000001 g/ml
Residue on ignition (as Na ₂ SO ₄)	max. 22 %
Thymolphthalein	max. 1 %

XYLENOL ORANGE INDICATOR I00881

Chemical formula	$C_{21}H_{28}N_2Na_2O_{15}S$
CAS	3618-43-7
EINECS	222-805-8
Molecular Weight	760,60 g/mol
Appearance	red-brown or black-brown, crystalline powder
Assay	min. 35 %
Moisture	max. 10 %
Sensitivity to ions of thorium (Th ⁴⁺)	min. 0,000001 g/ml
Cresol red	max. 3 %
Semixylenol orange	max. 15 %
Residue on ignition (as SO ₄)	max. 38 %
Suitability as indicator in compleximetry	passes test



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