

Продукция, соответствующая требованиям фармакопеи

Технические характеристики

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PHARMACOPOEIA PRODUCTS

- REAGENTS LIST



Pharmacopoeia-compliant products are the medicines, pharmaceutical products and substances used in medicine and healthcare that meet the standards and requirements established in each country's or region's official pharmacopoeia.



1-Naphthol, for analysis, ExpertQ®

- Synonyms: 1-Hydroxynaphthalene
- $C_{10}H_8O$
- $M = 144,17 \text{ g/mol}$
- CAS [90-15-3]
- EINECS-No.: 201-969-4
- Solub. in water: (20 °C): $\sim 0,1 \text{ g/l}$
- Melting point: 95 - 97 °C
- Boiling point: $\sim 288 \text{ °C}$
- Flash pt. 125 °C
- Ignition temp.: 510 °C
- Vapour pressure: (94 °C) 1,3 hPa
- LD 50 (oral, rat): 275 mg/kg
- EC-Index-No.: 604-029-00-5
- ADR: 6.1 T2 III UN 2811
- IMDG: 6.1 III UN 2811
- IATA/ICAO: 6.1 III UN 2811
- GHS-signal word: Danger
- GHS-H sentences: H318 - H302 - H312 - H335 - H315
- GHS-P sentences: P261 - P305+P351+P338 - P310 - P321 - P405 - P501a
- Tariff number: 2907 15 10 00
- Applications: analytical chemistry, synthesis of organic products, manufacture of dyes and perfumery.

SPECIFICATIONS

assay (G.C.): min. 99 %

identity (IR-spectrum): passes test

appearance of solution: passes test

chlorides (Cl): max. 0,005 %
heavy metals (as Pb): max. 0,001 %
iron (Fe): max. 0,001 %
naphthalene (G.C.): max. 0,2 %
2-naphthol (G.C.): max. 0,2 %
residue on ignition: max. 0,05 %
water (K.F.): max. 0,2 %

Volume

x 250 g

Reference

[NA01120250](#)

Packaging

x 250 g :: Glass bottle



Acetic acid glacial, for analysis, ExpertQ®, ACS, ISO, Reag. Ph Eur

- Synonyms: Methane carboxylic acid, Methylformic acid
- CH₃COOH
- M = 60,05 g/mol
- CAS [64-19-7]
- EINECS-No.: 200-580-7
- Density: 1,05 g/cm³
- Solub. in water: (20 °C): miscible
- Melting point: 17 °C
- Boiling point: 117 °C
- Flash pt. 39 °C
- Ignition temp.: 485 °C
- Vapour pressure: (20 °C) 15,4 hPa
- Refraction index: (20 °C) 1,37
- LD 50 (oral, rat): 3310 mg/kg
- EC-Index-No.: 607-002-00-6
- ADR: 8 CF1 II UN 2789
- IMDG: 8 II UN 2789
- IATA/ICAO: 8 II UN 2789
- GHS-signal word: Danger
- GHS-H sentences: H314 - H226
- GHS-P sentences: P210 - P303+P361+P353 - P305+P351+P338 - P310 - P370+P378 - P405 - P501a
- Tariff number: 2915 21 00 10
- Applications: laboratory reagent, synthesis of organic products, in the rubber industry, in food industry.

SPECIFICATIONS

assay (acidimetric): min. 99,8 %
identity (IR-spectrum): passes test
density (20°/4°): 1,048 - 1,050
boiling point: 117 - 119 °C
freezing point: min. 15,8 °C
colour (Hazen): max. 10
titrable base: max. 0,0004 meq/g
chlorides (Cl): max. 0,00004 %
phosphates (as PO₄): max. 0,00004 %
sulfates (SO₄): max. 0,00004 %
aluminium (Al): max. 0,02 ppm
arsenic (As): max 0,01 ppm
barium (Ba): max 0,01 ppm

beryllium (Be): max. 0,005 ppm
bismuth (Bi): max. 0,05 ppm
boron (B): max. 0,1 ppm
cadmium (Cd): max. 0,02 ppm
calcium (Ca): max. 0,1 ppm
chromium (Cr): max. 0,02 ppm
cobalt (Co): max 0,01 ppm
copper (Cu): max 0,01 ppm
gallium (Ga): max. 0,05 ppm
germanium (Ge): max. 0,02 ppm
gold (Au): max 0,01 ppm
heavy metals (as Pb): max. 0,5 ppm
indium (In): max. 0,05 ppm
iron (Fe): max. 0,05 ppm
lead (Pb): max 0,01 ppm
lithium (Li): max 0,01 ppm
magnesium (Mg): max. 0,05 ppm
manganese (Mn): max 0,01 ppm
mercury (Hg): max. 0,005 ppm
molybdenum (Mo): max 0,01 ppm
nickel (Ni): max. 0,02 ppm
platinum (Pt): max. 0,1 ppm
potassium (K): max. 0,1 ppm
silver (Ag): max. 0,005 ppm
sodium (Na): max. 0,2 ppm
strontium (Sr) : max 0,01 ppm
thallium (Tl): max. 0,02 ppm
tin (Sn): max. 0,05 ppm
titanium (Ti): max. 0,05 ppm
vanadium (V): max 0,01 ppm
zinc (Zn): max. 0,03 ppm
zirconium (Zr): max. 0,05 ppm
acetaldehyde (CH₃CHO): max. 0,0002 %
acetic anhydride (CH₃CO)₂O: max. 0,01 %
substances reducing KMnO₄ : passes test
substances reducing K₂Cr₂O₇: passes test
miscibility with water: total
dilution test: passes test
substances reducing iodine: negative reaction
residue on evaporation: max. 0,0005 %
water (K.F.): max. 0,2 %



Acetic anhydride, for analysis, ExpertQ®, ACS, ISO, Reag. Ph Eur

- Synonyms: Acetyl oxide
- (CH₃CO)₂O
- M = 102,09 g/mol
- CAS [108-24-7]
- EINECS-No.: 203-564-8
- Density: 1,08 g/cm³
- Solub. in water: (20 °C): hydrolysis reaction
- Melting point: -73 °C
- Boiling point: 138 - 140,5 °C
- Flash pt. 49 °C
- Ignition temp.: 330 °C
- Vapour pressure: (20 °C) 4hPa
- Refraction index: (n 20 °C/D) 1,3903
- LD 50 (oral, rat): 1780 mg/kg
- EC-Index-No.: 607-008-00-9

- ADR: 8 CF1 II UN 1715
- IMDG: 8 II UN 1715
- IATA/ICAO: 8 II UN 1715
- GHS-signal word: Danger
- GHS-H sentences: H226 - H302 - H314 - H330 - H335 -
- GHS-P sentences: P210 - P303+P361+P353 - P305+P351+P338 - P310 - P320 - P370+P378 - P405 - P501a
- Tariff number: 2915 24 00 00
- Applications: analytical chemistry, synthesis of organic products, acetylating agent.

SPECIFICATIONS

assay (G.C.): min. 99 %
 identity (IR-spectrum): passes test
 density (20°/4°): 1,079 - 1,082
 boiling point: 136 - 142 °C
 colour (Hazen): max. 10
 appearance: clear
 chlorides (Cl): max. 0,0002 %
 phosphates (as PO4): max. 0,0005 %
 sulfates (SO4): max. 0,0005 %
 aluminium (Al): max. 0,5 ppm
 barium (Ba): max. 0,1 ppm
 boron (B): max. 0,02 ppm
 cadmium (Cd): max. 0,05 ppm
 calcium (Ca): max. 0,5 ppm
 chromium (Cr): max. 0,05 ppm
 cobalt (Co): max. 0,02 ppm
 copper (Cu): max. 0,02 ppm
 heavy metals (as Pb): max. 2 ppm
 iron (Fe): max. 0,1 ppm
 lead (Pb): max. 0,1 ppm
 magnesium (Mg): max. 0,1 ppm
 manganese (Mn): max. 0,02 ppm
 nickel (Ni): max. 0,02 ppm
 tin (Sn): max. 0,1 ppm
 zinc (Zn): max. 0,1 ppm
 substances darkened by H2SO4: passes test
 substances reducing KMnO4 : passes test
 residue on evaporation: max. 0,002 %



Aluminium potassium sulfate dodecahydrate, for analysis, ExpertQ®, ACS, Reag. Ph Eur

- Synonyms: Potassium aluminium sulfate, Alum potassium, Potassium alum
- $\text{KAl}(\text{SO}_4)_2 \cdot 12\text{H}_2\text{O}$
- M = 474,39 g/mol
- CAS [7784-24-9]
- EINECS-No.: 233-141-3
- Solub. in water: (20 °C): 139 g/l
- Melting point: 90 °C
- Tariff number: 2833 30 00 00
- Applications: analytical chemistry, manufacture of dyes, manufacturing of lacquers, in explosive compositions.
- Appearance: Blanco y Cristalino

SPECIFICATIONS

assay (complexometric): 99,0 - 100,5 %
 identity (IR-spectrum): passes test
 appearance of solution: clear and colourless
 insoluble in water: max. 0,005 %

pH (10 %, H₂O): 3,0 - 3,5
chlorides (Cl): max. 5 ppm
ammonium (NH₄): max. 0,005 %
cadmium (Cd): max. 5 ppm
copper (Cu): max. 5 ppm
heavy metals (as Pb): max. 0,001 %
iron (Fe): max. 5 ppm
lead (Pb): max. 5 ppm
sodium (Na): max. 0,005 %



Ammonia, solution 25% w/w, for analysis, ExpertQ®, Reag. Ph Eur, ISO

- Synonyms: Ammonia water, Ammonium hydroxide solution
- NH₃
- M = 17,03 g/mol
- CAS [1336-21-6]
- EINECS-No.: 215-647-6
- Density: 0,90 g/cm³
- Melting point: -57,5 °C
- Boiling point: 37,7 °C
- Vapour pressure: (20 °C) ~ 500 hPa
- LD 50 (oral, rat): 350 mg/kg
- EC-Index-No.: 007-001-01-2
- ADR: 8 C5 III UN 2672
- IMDG: 8 III UN 2672
- IATA/ICAO: 8 III UN 2672
- GHS-signal word: Danger
- GHS-H sentences: H314 - H335 - H400
- GHS-P sentences: P260 - P303+P361+P353 - P305+P351+P338 - P310 - P405 - P501a
- Tariff number: 2814 20 00 00
- Applications: analytical chemistry, laboratory reagent.

SPECIFICATIONS

assay (acidimetric, NH₃): 25,0 - 30,0 %
identification B (EP): passes test
Identification C (EP): passes test
density (20°/20°): 0,892 - 0,910
appearance of solution: clear and colourless
carbonates (as CO₂): max. 20 ppm
chlorides (Cl): max. 0,5 ppm
phosphates (as PO₄): max. 2 ppm
silicates (SiO₂): max. 10 ppm
sulfates (SO₄): max. 2 ppm
calcium (Ca): max. 1 ppm
copper (Cu): max. 0,1 ppm
iron (Fe): max. 0,2 ppm
lead (Pb): max. 0,5 ppm
magnesium (Mg): max. 1 ppm
potassium (K): max. 1 ppm
sodium (Na): max. 5 ppm
pyridine and related substances: max. 2 ppm
substances reducing KMnO₄ : max. 8 ppm
oxidisable substances: passes test
residue on evaporation: max. 20 mg/l



Ammonium acetate, for analysis, ExpertQ®, ACS, Reag. Ph Eur

- Synonyms: Acetic acid ammonium salt
- CH3COONH4
- M = 77,08 g/mol
- CAS [631-61-8]
- EINECS-No.: 211-162-9
- Solub. in water: (20 °C): soluble
- Melting point: 114 °C
- Flash pt. 136 °C
- Tariff number: 2915 29 00 90
- Applications: analytical chemistry, for the detection of: metals.

SPECIFICATIONS

assay (acidimetric): min. 98 %
insoluble in water: max. 0,005 %
pH (5 %, H₂O): 6,7 - 7,3
chlorides (Cl): max. 0,0005 %
nitrates (NO₃): max. 0,001 %
sulfates (SO₄): max. 0,001 %
calcium (Ca): max. 0,001 %
heavy metals (as Pb): max. 0,0002 %
iron (Fe): max. 0,0002 %
substances reducing KMnO₄ : passes test
residue on ignition (as SO₄): max. 0,01 %
water (K.F.): max. 2 %



Ammonium chloride, for analysis, ExpertQ®, ACS, ISO, Reag. Ph Eur

- Synonyms: Salt ammoniac
- NH4Cl
- M = 53,49 g/mol
- CAS [12125-02-9]
- EINECS-No.: 235-186-4
- Solub. in water: (20 °C): 372 g/l
- Melting point: 335 °C (decomposes)
- Ignition temp.: > 400 °C
- Vapour pressure: (30 °C) 1,3 hPa
- LD 50 (oral, rat): 1440 mg/kg
- EC-Index-No.: 017-014-00-8
- GHS-signal word: Warning
- GHS-H sentences: H302 - H319
- GHS-P sentences: P280 - P264 - P305+P351+P338 - P301+P312 - P337+P313 - P501a
- Tariff number: 2827 10 00 00
- Applications: manufacture of dyes, in explosive compositions, analytical chemistry.

SPECIFICATIONS

assay (argentometric): min. 99,5 %
assay (acidimetric, on dried sample): 99,5 - 100,5 %
identity (IR-spectrum): passes test
appearance of solution: clear and colourless
insoluble matter: max. 0,005 %
pH (5 %, H₂O): 4,5 - 5,5
acidity or alkalinity: passes test
bromides and iodides : passes test
phosphates (as PO₄): max. 2 ppm

sulfates (SO₄): max. 0,002 %
calcium (Ca): max. 5 ppm
copper (Cu): max. 2 ppm
heavy metals: max. 5 ppm
iron (Fe): max. 2 ppm
lead (Pb): max. 1 ppm
magnesium (Mg): max. 5 ppm
nickel (Ni): max. 1 ppm
potassium (K): max. 0,005 %
sodium (Na): max. 0,005 %
zinc (Zn): max. 2 ppm
residue on ignition: max. 1,0 %
residue on ignition (800 °C): max. 0,01 %
loss on drying (105 °C, 2h): max. 1,0 %



Ammonium dihydrogen phosphate, for analysis, ExpertQ®, ACS, Reag. Ph Eur

- Synonyms: Ammonium biphosphate, Ammonium phosphate monobasic, Primary ammonium phosphate, Monoammonium orthophosphate
- (NH₄)H₂PO₄
- M = 115,03 g/mol
- CAS [7722-76-1]
- EINECS-No.: 231-764-5
- Solub. in water: (20 °C): 370 g/l
- Melting point: 190 °C
- LD 50 (oral, rat): 2500 mg/kg
- Tariff number: 3105 40 00 10
- Applications: in fertilizer compositions, analytical chemistry, in buffer solutions.

SPECIFICATIONS

assay (acidimetric): min. 98,0 %
identity (IR-spectrum): passes test
insoluble in water: max. 0,005 %
pH (2,3 %, H₂O) : about 4,2
pH (5 %, H₂O): 3,8 - 4,4
chlorides (Cl): max. 5 ppm
nitrates (NO₃): max. 0,001 %
sulfates (SO₄): max. 0,005 %
calcium (Ca): max. 0,001 %
heavy metals (as Pb): max. 5 ppm
iron (Fe): max. 0,001 %
magnesium (Mg): max. 5 ppm
potassium (K): max. 0,005 %
sodium (Na): max. 0,005 %



Ammonium heptamolybdate tetrahydrate, for analysis, ExpertQ®, ACS, ISO, Reag. Ph Eur

- Synonyms: Ammonium molybdate, Hexammonium heptamolybdate 4-hydrate
- (NH₄)₆Mo₇O₂₄·4H₂O
- M = 1235,86 g/mol
- CAS [12054-85-2]
- EINECS-No.: 234-722-4
- Solub. in water: (20 °C): 400 g/l

- Melting point: 90 °C (release of crystalline water)
- LD 50 (oral, rat): 3883 mg/kg
- Tariff number: 2841 70 00 90
- Applications: photography, in porcelain industry, analytical chemistry.

SPECIFICATIONS

assay [(NH₄)₆Mo₇O₂₄·4H₂O]: min. 99 %
 assay (as MoO₃): 81,0 - 83,0 %
 insoluble matter: max. 0,005 %
 arseniates, phosphates, and silicates (as SiO₂): max. 0,001 %
 chlorides (Cl): max. 0,002 %
 nitrates (NO₃): passes test
 phosphates (as PO₄): max. 5 ppm
 sulfates (SO₄): max. 0,02 %
 heavy metals: max. 0,001 %
 lead (Pb): max. 0,001 %
 magnesium (Mg): max. 0,005 %
 potassium (K): max. 0,01 %
 sodium (Na): max. 0,01 %



Ammonium hydrogen carbonate, for analysis, ExpertQ®, Reag. Ph Eur

- Synonyms: Ammonium bicarbonate
- NH₄HCO₃
- M = 79,06 g/mol
- CAS [1066-33-7]
- EINECS-No.: 213-911-5
- Solub. in water: (20 °C): 220 g/l
- Melting point: 106 °C
- Vapour pressure: (20 °C) 67 hPa
- LD 50 (oral, rat): 1576 mg/kg
- GHS-signal word: Warning
- GHS-H sentences: H302
- GHS-P sentences: P264 - P270 - P301+P312 - P330 - P501a
- Tariff number: 2836 10 00 00
- Applications: analytical chemistry, manufacture of dyes, in porcelain industry, pigment, in the textile industry.

SPECIFICATIONS

assay (acidimetric): min. 99 %
 chlorides (Cl): max. 0,0005 %
 nitrates (NO₃): max. 0,001 %
 phosphates (as PO₄): max. 0,0005 %
 sulfates (SO₄): max. 0,005 %
 sulfides (S): max. 0,001 %
 arsenic (As): max. 1 ppm
 calcium (Ca): max. 0,001 %
 cadmium (Cd): max. 5 ppm
 cobalt (Co): max. 5 ppm
 copper (Cu): max. 1 ppm
 heavy metals (as Pb): max. 5 ppm
 iron (Fe): max. 1 ppm
 lead (Pb): max. 5 ppm
 magnesium (Mg): max. 0,001 %
 nickel (Ni): max. 5 ppm
 potassium (K): max. 0,001 %
 sodium (Na): max. 0,002 %
 zinc (Zn): max. 5 ppm
 residue on ignition: max. 0,05 %



Ammonium peroxodisulfate, EssentQ®, Reag. Ph Eur

- Synonyms: Ammonium persulfate, Peroxodisulfuric acid diammonium salt
- $(\text{NH}_4)_2\text{S}_2\text{O}_8$
- M = 228,20 g/mol
- CAS [7727-54-0]
- EINECS-No.: 231-786-5
- Solub. in water: (20 °C): 620 g/l
- Melting point: 120 °C (decomposes)
- LD 50 (oral, rat): 495 mg/kg
- EC-Index-No.: 016-060-00-6
- ADR: 5.1 O2 III UN 1444
- IMDG: 5.1 III UN 1444
- IATA/ICAO: 5.1 III UN 1444
- GHS-signal word: Danger
- GHS-H sentences: H334 - H272 - H302 - H335 - H315 - H319 - H317
- GHS-P sentences: P221 - P210 - P305+P351+P338 - P370+P378 - P405 - P501a
- Tariff number: 2833 40 00 00
- Applications: analytical chemistry, synthesis of polymers.
- Appearance: White to light yellow powder

SPECIFICATIONS

assay (iodometric): min. 98 %
insoluble in water: max. 0,02 %
chlorides and chlorates (as Cl): max. 0,005 %
copper (Cu): max. 0,005 %
heavy metals (as Pb): max. 0,003 %
iron (Fe): max. 0,001 %
lead (Pb): max. 0,001 %
manganese (Mn): max. 2 ppm
nickel (Ni): max. 0,005 %
residue on ignition (as SO_4): max. 0,1 %



Ammonium sulfate, for analysis, ExpertQ®, ACS, ISO, Reag. Ph Eur

- Synonyms: Sulfuric acid diammonium salt
- $(\text{NH}_4)_2\text{SO}_4$
- M = 132,14 g/mol
- CAS [7783-20-2]
- EINECS-No.: 231-984-1
- Solub. in water: (20 °C): 754 g/l
- Melting point: 280 °C (decomposes)
- LD 50 (oral, rat): 4250 mg/kg
- GHS-signal word: Warning
- GHS-H sentences: H315 - H319 - H335
- GHS-P sentences: P261 - P280 - P305+P351+P338 - P321 - P405 - P501a
- Tariff number: 3102 21 00 00
- Applications: analytical chemistry, manufacture of alums.

SPECIFICATIONS

assay (acidimetric): min. 99,0 %
identity (IR-spectrum): passes test
insoluble matter: max. 0,005 %

pH (5 %, H₂O): 5,0 - 6,0
chlorides (Cl): max. 3 ppm
nitrates (NO₃): max. 0,001 %
phosphates (as PO₄): max. 5 ppm
arsenic (As): max. 0,2 ppm
cadmium (Cd): max. 1 ppm
calcium (Ca): max. 0,001 %
copper (Cu): max. 2 ppm
heavy metals: max. 5 ppm
iron (Fe): max. 2 ppm
lead (Pb): max. 2 ppm
magnesium (Mg): max. 5 ppm
zinc (Zn): max. 1 ppm
residue on ignition: max. 0,005 %
loss on drying (105 °C): max. 0,1 %



Barium chloride dihydrate, for analysis, ExpertQ®, ACS, ISO, Reag. Ph Eur

- BaCl₂·2H₂O
- M = 244,28 g/mol
- CAS [10326-27-9]
- EINECS-No.: 233-788-1
- Solub. in water: (20 °C): 357 g/l
- Melting point: 962 °C (release of crystalline water)
- LD 50 (oral, rat): 118 mg/kg (anhydrous substance)
- EC-Index-No.: 056-002-00-7
- ADR: 6.1 T5 III UN 1564
- IMDG: 6.1 III UN 1564
- IATA/ICAO: 6.1 III UN 1564
- GHS-signal word: Danger
- GHS-H sentences: H301 - H332
- GHS-P sentences: P261 - P301+P310 - P321 - P304+P340 - P405 - P501a
- Tariff number: 2827 39 85 40
- Applications: analytical chemistry, for determination of: sulfates.

SPECIFICATIONS

assay (complexometric): min. 99,0 %
identity (IR-spectrum): passes test
insoluble in water: max. 0,005 %
pH (5 %, H₂O): 5,2 - 8,0
total nitrogen (as N): max. 0,002 %
oxidizing substances (as NO₃): max. 0,005 %
calcium (Ca): max. 0,005 %
heavy metals: max. 5 ppm
iron (Fe): max. 1 ppm
lead (Pb): max. 0,001 %
potassium (K): max. 0,0025 %
sodium (Na): max. 0,005 %
strontium (Sr) : max. 0,05 %
loss on drying (150 °C) : 14,0 - 16,0 %



Barium hydroxide octahydrate, for analysis, ExpertQ®, ACS, ISO, Reag. Ph Eur

- Synonyms: Caustic baryta, Barium oxide hydrate octahydrate
- $\text{Ba(OH)}_2 \cdot 8\text{H}_2\text{O}$
- $M = 315,48 \text{ g/mol}$
- CAS [12230-71-6]
- EINECS-No.: 241-234-5
- Solub. in water: (15 °C): 56 g/l
- Melting point: 78 °C
- LD 50 (oral, rat): 550 mg/kg
- ADR: 8 C6 II UN 3262
- IMDG: 8 II UN 3262
- IATA/ICAO: 8 II UN 3262
- GHS-signal word: Danger
- GHS-H sentences: H302+H332 - H314
- GHS-P sentences: P261 - P264 - P270 - P301+P312 - P304+P340 - P501a
- Tariff number: 2816 40 00 00
- Applications: analytical chemistry, for the detection of: carbon dioxide; in pesticide compositions, in lubricant compositions, in the rubber industry.

SPECIFICATIONS

assay (acidimetric): min. 98,0 %
 insoluble in HCl : max. 0,005 %
 carbonates (as BaCO_3): max. 2,0 %
 chlorides (Cl): max. 0,001 %
 sulfides (S): max. 0,0005 %
 cadmium (Cd): max. 5 ppm
 calcium (Ca): max. 0,002 %
 heavy metals (as Pb): max. 5 ppm
 iron (Fe): max. 5 ppm
 lead (Pb): max. 5 ppm
 magnesium (Mg): max. 0,002 %
 potassium (K): max. 0,01 %
 sodium (Na): max. 0,01 %
 strontium (Sr) : max. 0,5 %
 zinc (Zn): max. 5 ppm
 non precipitable with H_2SO_4 (as SO_4): max. 0,2 %



Barium nitrate, for analysis, ExpertQ®, ACS, Reag. Ph Eur

- Synonyms: Nitric acid barium salt
- $\text{Ba(NO}_3)_2$
- $M = 261,35 \text{ g/mol}$
- CAS [10022-31-8]
- EINECS-No.: 233-020-5
- Solub. in water: (20 °C): 90 g/l
- Melting point: 592 - 595 °C
- LD 50 (oral, rat): 355 mg/kg
- EC-Index-No.: 056-002-00-7
- ADR: 5.1 OT2 II UN 1446
- IMDG: 5.1 II UN 1446
- IATA/ICAO: 5.1 II UN 1446
- GHS-signal word: Danger
- GHS-H sentences: H272 - H301 - H332 - H319 -
- GHS-P sentences: P221 - P210 - P220 - P305+P351+P338 - P370+P378 - P501a
- Tariff number: 2834 29 20 00
- Applications: analytical chemistry, in explosive compositions.
- Appearance: White crystals

SPECIFICATIONS

assay (complexometric): min. 99,0 %
 insoluble in water: max. 0,01 %

pH (5 %, H₂O): 5,0 - 8,0
chlorides (Cl): max. 5 ppm
calcium (Ca): max. 0,002 %
heavy metals: max. 5 ppm
iron (Fe): max. 2 ppm
potassium (K): max. 0,005 %
sodium (Na): max. 0,005 %
strontium (Sr) : max. 0,05 %



Cadmium, metal, EssentQ®, Reag. Ph Eur

- Cd
- M = 112,40 g/mol
- CAS [7440-43-9]
- EINECS-No.: 231-152-8
- Solub. in water: (20 °C): insoluble
- Melting point: 321 °C
- Boiling point: 767 °C
- Vapour pressure: (394 °C) 1,3 hPa
- LD 50 (oral, rat): 225 mg/kg
- EC-Index-No.: 048-002-00-0 [1]
- ADR: 6.1 T5 I UN 3288
- IMDG: 6.1 I UN 3288
- IATA/ICAO: 6.1 I UN 3288
- GHS-signal word: Danger
- GHS-H sentences: H330 - H350 - H372 - H341 - H361fd - H400 - H410
- GHS-P sentences: P260 - P284 - P301+P310 - P320 - P405 - P501a
- Tariff number: 8107 20 00 00
- Applications: analytical chemistry, laboratory reagent, electrolyte for batteries.

SPECIFICATIONS

assay (complexometric): min. 99 %
copper (Cu): max. 0,01%
iron (Fe): max. 0,005%
lead (Pb): max. 0,05%
nickel (Ni): max. 0,05%
tin (Sn): max. 0,05%
zinc (Zn): max. 0,005%



Calcium carbonate, precipitated, for analysis, ExpertQ®, Reag. Ph Eur

- Synonyms: Lime, Chalk, Marble
- CaCO₃
- M = 100,09 g/mol
- CAS [471-34-1]
- EINECS-No.: 207-439-9
- Solub. in water: (20 °C): 14 mg/l
- Melting point: 825 °C (decomposes)
- LD 50 (oral, rat): 6450 mg/kg
- Tariff number: 2836 50 00 00
- Applications: painting, in the rubber industry, plasticizer, dentifrices, in porcelain industry, insecticide, in food industry, cosmetics, for pharmaceutical use.

SPECIFICATIONS

assay (complexometric, on dried sample): 98,5 - 100,5 %
Identification A (EP): passes test
identification B (EP): passes test
insoluble in CH₃COOH: max. 0,2 %
chlorides (Cl): max. 330 ppm
sulfates (SO₄): max. 0,25 %
iron (Fe): max. 200 ppm
magnesium and alkali metals: max. 1,5 %
loss on drying (200°C): max. 2,0 %



Cerium(III) nitrate hexahydrate, EssentQ®, Reag. Ph Eur

- Ce(NO₃)₃·6H₂O
- M = 434,23 g/mol
- CAS [10294-41-4]
- EINECS-No.: 233-297-2
- Solub. in water: (20 °C): soluble
- LD 50 (oral, rat): 4200 mg/kg
- ADR: 5.1 O2 II UN 1477
- IMDG: 5.1 II UN 1477
- IATA/ICAO: 5.1 II UN 1477
- GHS-signal word: Danger
- GHS-H sentences: H272
- GHS-P sentences: P221 - P210 - P220 - P280 - P370+P378 - P501a
- Tariff number: 2846 10 00 90
- Applications: analytical chemistry, laboratory reagent, inorganic salts.
- Appearance: Colourless to white crystalline powder

SPECIFICATIONS

assay (complexometric): min. 98,5 %
chlorides (Cl): max. 0,003 %
heavy metals (as Pb): max. 0,002 %
iron (Fe): max. 0,001 %



Chromium(III) chloride hexahydrate, ExpertQ®, Reag. Ph Eur

- CrCl₃·6H₂O
- M = 266,45 g/mol
- CAS [10060-12-5]
- EINECS-No.: 233-038-3
- Solub. in water: (20 °C): 590 g/l
- Melting point: 95 °C
- LD 50 (oral, rat): 1790 mg/kg
- ADR: 8 C2 II UN 3260
- IMDG: 8 II UN 3260
- IATA/ICAO: 8 II UN 3260
- GHS-signal word: Warning
- GHS-H sentences: H290 - H302 - H317 - H411
- GHS-P sentences: P261 - P280 - P321 - P301+P312 - P406 - P501a
- Tariff number: 2827 39 85 90
- Applications: analytical chemistry, synthesis of polymers, synthesis of organic products, for the synthesis of: chromium salts, corrosion inhibitor.

SPECIFICATIONS

assay (iodometric): min. 97 %
identification: passes test
pH (5 %, H₂O): 2 - 3
sulfates (SO₄): max. 0,05 %
copper (Cu): max. 0,001 %
iron (Fe): max. 0,03 %
lead (Pb): max. 0,005 %
non precipitable by NH₄OH (as SO₄): max. 0,2 %



Chromium(VI) oxide, EssentQ®, Reag. Ph Eur

- Synonyms: Chromium trioxide, Chromic anhydride
- CrO₃
- M = 99,99 g/mol
- CAS [1333-82-0]
- EINECS-No.: 215-607-8
- Solub. in water: (20 °C): soluble
- Melting point: 197 °C
- LD 50 (oral, rat): 80 mg/kg
- EC-Index-No.: 024-001-00-0
- ADR: 5.1 OTC II UN 1463
- IMDG: 5.1 II UN 1463
- IATA/ICAO: 5.1 II UN 1463
- GHS-signal word: Danger
- GHS-H sentences: H271 - H301 - H311 - H330 - H334 - H340 - H350 - H372 - H361f - H314 - H400 - H410 - H317
- GHS-P sentences: P221 - P283 - P301+P310 - P303+P361+P353 - P305+P351+P338 - P320 - P370+P378 - P405 - P501a
- Tariff number: 2819 10 00 00
- Applications: analytical chemistry, corrosion inhibitor, photography, oxidizing agent (synthesis of organic products), microscopy.

SPECIFICATIONS

assay (iodometric): min. 99 %
insoluble in water: max. 0,1 %
chlorides (Cl): max. 0,02 %
sulfates (SO₄): max. 0,05 %
loss on drying (105 °C): max. 1 %



Citric acid anhydrous, for analysis, ExpertQ®, ACS, Reag. Ph Eur

- Synonyms: 2-Hydroxy-1,2,3-propanetricarboxylic acid, b-Hydroxy tricarboxilic acid
- C₆H₈O₇
- M = 192,13 g/mol
- CAS [77-92-9]
- EINECS-No.: 201-069-1
- Solub. in water: (20 °C): soluble
- Melting point: ~ 153 °C (decomposes)
- Flash pt. 93 °C
- Ignition temp.: 345 °C
- Vapour pressure: (20 °C) < 0,1 hPa
- LD 50 (oral, rat): 3000 mg/kg
- GHS-signal word: Warning
- GHS-H sentences: H319 - H335

- GHS-P sentences: P261 - P280 - P305+P351+P338 - P304+P340 - P405 - P501a
- Tariff number: 2918 14 00 00
- Applications: acidifying agent, analytical chemistry, laboratory reagent, in food industry, antioxidant.

SPECIFICATIONS

assay (acidimetric): min. 99,5 %
 assay (acidimetric, referred to dried sample): 99,5 - 100,5 %
 identity (IR-spectrum): passes test
 appearance of solution: passes test
 insoluble in water: max. 0,005 %
 chlorides (Cl): max. 0,001 %
 oxalates (C₂O₄): passes test
 phosphates (as PO₄): max. 0,001 %
 sulfates (SO₄): max. 150 ppm
 iron (Fe): max. 3 ppm
 lead (Pb): max. 2 ppm
 readily carbonizable substances: passes test
 sulphur compounds (as SO₄): max. 0,002 %
 residue on ignition: max. 0,02 %
 water (K.F.): max. 1,0 %



Citric acid monohydrate, for analysis, ExpertQ®, ACS, ISO, Reag. Ph Eur

- Synonyms: 2-Hydroxy-1,2,3-propanetricarboxylic acid monohydrate, b-Hydroxytricarballic acid monohydrate
- C₆H₈O₇·H₂O
- M = 210,14 g/mol
- CAS [5949-29-1]
- EINECS-No.: 201-069-1
- Solub. in water: (20 °C): very soluble in water
- Melting point: 135 - 152 °C
- Boiling point: 135 - 152 °C (decomposes)
- Ignition temp.: 345 °C
- Vapour pressure: (20 °C) < 0,1 hPa
- LD 50 (oral, rat): 3000 mg/kg
- GHS-signal word: Warning
- GHS-H sentences: H319
- GHS-P sentences: P280 - P264 - P305+P351+P338 - P337+P313
- Tariff number: 2918 14 00 00
- Applications: analytical chemistry, laboratory reagent, in buffer solutions.

SPECIFICATIONS

assay (acidimetric): 99,5 - 100,5 %

dried sample): 99,5 - 100,5 %
 identity (IR-spectrum): passes test
 appearance of solution : passes test
 insoluble in water: max. 0,005 %
 chlorides (Cl): max. 5 ppm
 phosphates (as PO₄): max. 0,001 %
 oxalates (C₂O₄): passes test
 sulfates (SO₄): max. 0,002 %
 oxalic acid (C₂H₂O₄): max. 360 ppm
 sulphur compounds (as SO₄): max. 0,002 %
 calcium (Ca): max. 10 ppm
 copper (Cu): max. 5 ppm
 iron (Fe): max. 3 ppm
 lead (Pb): max. 2 ppm

magnesium (Mg): max. 10 ppm
nickel (Ni): max. 1 ppm
readily carbonizable substances: passes test
residue on ignition: max. 0,02 %
water (K.F.): 7,5 - 9,0
suitability for determination of Fe: passes test



Cobalt(II) chloride hexahydrate, for analysis, ExpertQ®, ACS, ISO, Reag. Ph Eur

- $\text{CoCl}_2 \cdot 6\text{H}_2\text{O}$
- $M = 237,93 \text{ g/mol}$
- CAS [7791-13-1]
- EINECS-No.: 231-589-4
- Solub. in water: (20 °C): 76 g/l
- Melting point: 56 °C
- LD 50 (oral, rat): 766 mg/kg
- EC-Index-No.: 027-004-00-5
- ADR: 9 M7 III UN 3077
- IMDG: 9 III UN 3077
- IATA/ICAO: 9 III UN 3077
- GHS-signal word: Danger
- GHS-H sentences: H302 - H317 - H318 - H334 - H350 - H360FD - H410 -
- GHS-P sentences: P284 - P305+P351+P338 - P310 - P321 - P405 - P501a
- Tariff number: 2827 34 00 00
- Applications: analytical chemistry, laboratory reagent, invisible ink.
- Appearance: Violet solid

SPECIFICATIONS

assay (complexometric): 99,0 - 102,0 %
identity (IR-spectrum): passes test
insoluble in water: max. 0,01 %
nitrates (NO_3): max. 0,01 %
sulfates (SO_4): max. 0,005 %
calcium (Ca): max. 0,005 %
copper (Cu): max. 5 ppm
iron (Fe): max. 0,005 %
lead (Pb): max. 5 ppm
magnesium (Mg): max. 0,002 %
manganese (Mn): max. 0,001 %
nickel (Ni): max. 0,05 %
potassium (K): max. 0,005 %
sodium (Na): max. 0,01 %
zinc (Zn): max. 0,002 %
non precipitable with $(\text{NH}_4)_2\text{S}$ (as SO_4) max. 0,25 %



Cobalt(II) nitrate hexahydrate, for analysis, ExpertQ®, ACS, Reag. Ph Eur

- Synonyms: Nitric acid cobalt salt hexahydrate
- $\text{Co}(\text{NO}_3)_2 \cdot 6\text{H}_2\text{O}$
- $M = 291,04 \text{ g/mol}$
- CAS [10026-22-9]
- EINECS-No.: 233-402-1
- Solub. in water: (20 °C): soluble

- Melting point: 57 °C
- Flash pt. 93 °C
- LD 50 (oral, rat): 691 mg/kg
- ADR: 5.1 O2 II UN 1477
- IMDG: 5.1 II UN 1477
- IATA/ICAO: 5.1 II UN 1477
- GHS-signal word: Danger
- GHS-H sentences: H272 - H302+H332 - H318 - H334 - H317 - H360F - H341 - H350i - H400 - H410
- GHS-P sentences: P221 - P305+P351+P338 - P310 - P370+P378 - P405 - P501a
- Tariff number: 2834 29 20 00
- Applications: analytical chemistry, laboratory reagent, pigment, invisible ink.
- Appearance: Pink-red-brown crystalline powder

SPECIFICATIONS

assay (complexometric): 99,0 - 102,0 %
 identity (IR-spectrum): passes test
 insoluble in water: max. 0,005 %
 chlorides (Cl): max. 0,002 %
 sulfates (SO₄): max. 0,005 %
 ammonium (NH₄): max. 0,05 %
 calcium (Ca): max. 0,005 %
 copper (Cu): max. 0,001 %
 iron (Fe): max. 0,001 %
 lead (Pb): max. 0,001 %
 magnesium (Mg): max. 0,005 %
 manganese (Mn): max. 0,005 %
 nickel (Ni): max. 0,001 %
 potassium (K): max. 0,01 %
 sodium (Na): max. 0,05 %
 zinc (Zn): max. 0,005 %



Copper(II) acetate monohydrate, for analysis, ExpertQ®, ACS, Reag. Ph Eur

- Synonyms: Cupric acetate
- Cu(CH₃COO)₂·H₂O
- M = 199,65 g/mol
- CAS [6046-93-1]
- EINECS-No.: 205-553-3
- Solub. in water: (20 °C): 72 g/l
- Melting point: 115 °C
- Boiling point: 240 °C (decomposes)
- LD 50 (oral, rat): 710 mg/kg
- ADR: 8 CT2 II UN 2923
- IMDG: 8 II UN 2923
- IATA/ICAO: 8 II UN 2923
- GHS-signal word: Danger
- GHS-H sentences: H302 - H314 - H400 -
- GHS-P sentences: P260 - P303+P361+P353 - P305+P351+P338 - P310 - P405 - P501a
- Tariff number: 2915 29 00 00
- Applications: analytical chemistry, pigment (in porcelain industry), fungicide, spraying reagent in thin layer chromatography.

SPECIFICATIONS

assay (iodometric): 99 - 102 %
 insoluble in diluted CH₃COOH: max. 0,01 %
 chlorides (Cl): max. 0,001 %
 sulfates (SO₄): max. 0,005 %
 total nitrogen (as N): max. 0,01 %

calcium (Ca): max. 0,005 %
iron (Fe): max. 0,002 %
lead (Pb): max. 0,004 %
magnesium (Mg): max. 0,001 %
nickel (Ni): max. 0,002 %
potassium (K): max. 0,01 %
sodium (Na): max. 0,01 %
zinc (Zn): max. 0,002 %



Copper(II) sulfate pentahydrate, for analysis, ExpertQ®, ACS, ISO, Reag. Ph Eur

- Synonyms: Copper monosulfate pentahydrate, Copper vitriol pentahydrate
- $\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$
- M = 249,68 g/mol
- CAS [7758-99-8]
- EINECS-No.: 231-847-6
- Solub. in water: (20 °C): ~ 317 g/l
- LD 50 (oral, rat): 300 mg/kg (anhydrous substance)
- EC-Index-No.: 029-004-00-0
- ADR: 9 M7 III UN 3077
- IMDG: 9 III UN 3077
- IATA/ICAO: 9 III UN 3077
- GHS-signal word: Warning
- GHS-H sentences: H302 - H315 - H319 - H410 -
- GHS-P sentences: P280 - P273 - P305+P351+P338 - P310 - P301+P312 - P501a
- Tariff number: 2833 25 00 00
- Applications: analytical chemistry, nitrogen determinations.

SPECIFICATIONS

assay (iodometric): 99,0 - 102,0 %
insoluble matter: max. 0,005 %
total nitrogen (as N): max. 0,002 %
chlorides (Cl): max. 10 ppm
calcium (Ca): max. 50 ppm
iron (Fe): max. 30 ppm
nickel (Ni): max. 50 ppm
potassium (K): max. 10 ppm
sodium (Na): max. 50 ppm
zinc (Zn): max. 500 ppm



Copper, powder, EssentQ®, Reag. Ph Eur

- Cu
- M = 63,55 g/mol
- CAS [7440-50-8]
- EINECS-No.: 231-159-6
- Solub. in water: (20 °C): insoluble
- Melting point: 1083 °C
- Boiling point: 2595 °C
- ADR: 9 M7 III UN 3077
- IMDG: 9 III UN 3077
- IATA/ICAO: 9 III UN 3077
- GHS-signal word: Warning
- GHS-H sentences: H411

- GHS-P sentences: P273 - P391 - P501a
- Tariff number: 7406 10 00 00
- Applications: analytical chemistry, electrical conductor, catalyst (synthesis of organic products), metal alloys.

SPECIFICATIONS

assay (iodometric): min. 99,7 %
insoluble in HNO₃: max. 0,05 %
antimony (Sb): max. 0,001 %
arsenic (As): max. 5 ppm
iron (Fe): max. 0,005 %
lead (Pb): max. 0,05 %
manganese (Mn): max. 0,001 %
nickel (Ni): max. 0,005 %
silver (Ag): max. 0,002 %
tin (Sn): max. 0,01 %



di-Ammonium oxalate monohydrate, for analysis, ExpertQ®, ACS, ISO, Reag. Ph Eur

- Synonyms: Oxalic acid ammonium salt
- (NH₄)₂C₂O₄·H₂O
- M = 142,11 g/mol
- CAS [6009-70-7]
- EINECS-No.: 214-202-3
- Solub. in water: (20 °C): ~ 45 g/l
- Melting point: 70 °C
- EC-Index-No.: 607-007-00-3
- ADR: 6.1 T2 III UN 2811
- IMDG: 6.1 III UN 2811
- IATA/ICAO: 6.1 III UN 2811
- GHS-signal word: Warning
- GHS-H sentences: H302 - H312
- GHS-P sentences: P280 - P264 - P270 - P321 - P301+P312 - P501a
- Tariff number: 2917 11 00 99
- Applications: analytical chemistry, for determination of: calcium, lead, rare earth metals.

SPECIFICATIONS

assay (permanganometric): 99 - 101 %
insoluble in water: max. 0,005 %
pH (2,5 %, H₂O): 6 - 7
chlorides (Cl): max. 0,0005 %
nitrates (NO₃): max. 0,0005 %
sulfates (SO₄): max. 0,002 %
cadmium (Cd): max. 0,0005 %
calcium (Ca): max. 0,001 %
copper (Cu): max. 0,0005 %
heavy metals (as Pb): max. 0,0005 %
iron (Fe): max. 0,0002 %
lead (Pb): max. 0,0005 %
magnesium (Mg): max. 0,001 %
potassium (K): max. 0,001 %
sodium (Na): max. 0,001 %
zinc (Zn): max. 0,0005 %
residue on ignition (as SO₄): max. 0,02 %



di-Potassium hydrogen phosphate anhydrous, for analysis, ExpertQ®, ACS, Reag. Ph Eur

- Synonyms: Dipotassium hydrogen phosphate, Potassium phosphate dibasic
- K_2HPO_4
- $M = 174,18 \text{ g/mol}$
- CAS [7758-11-4]
- EINECS-No.: 231-834-5
- Solub. in water: (20 °C): soluble
- Tariff number: 2835 24 00 00
- Applications: analytical chemistry, in buffer solutions (phosphates), nutrient media for bacterial culture.

SPECIFICATIONS

assay (acidimetric, on dried sample): min. 99,0 %

identity (IR-spectrum): passes test

insoluble in water: max. 0,01 %

pH (5 %, H_2O): 8,5 - 9,6

chlorides (Cl): max. 0,003 %

sulfates (SO_4): max. 0,005 %

nitrogen compounds (as N): max. 0,001 %

heavy metals: max. 5 ppm

iron (Fe): max. 0,001 %

sodium (Na): max. 0,05 %

loss on drying (105 °C): max. 1,0 %



di-Potassium hydrogen phosphate trihydrate, for analysis, ExpertQ®, Reag. Ph Eur

- Synonyms: Secondary potassium phosphate, Potassium phosphate dibasic
- $K_2HPO_4 \cdot 3H_2O$
- $M = 228,23 \text{ g/mol}$
- CAS [16788-57-1]
- EINECS-No.: 231-834-5
- Solub. in water: (20 °C): freely soluble
- Tariff number: 2835 24 00 00
- Applications: in buffer solutions (chromatography).

SPECIFICATIONS

assay (acidimetric): min. 98 %

insoluble in water: max. 0,01 %

pH (5 %, H_2O): 8,5 - 9,6

chlorides (Cl): max. 0,001 %

sulfates (SO_4): max. 0,005 %

total nitrogen (as N): max. 0,001 %

arsenic (As): max. 0,5 ppm

copper (Cu): max. 0,003 %

heavy metals (as Pb): max. 0,001 %

iron (Fe): max. 5 ppm

lead (Pb): max. 0,001 %

nickel (Ni): max. 0,001 %

sodium (Na): max. 0,1 %



di-Sodium hydrogen citrate 1,5-hydrate, for analysis, ExpertQ®, Reag. Ph Eur

- $\text{C}_6\text{H}_6\text{Na}_2\text{O}_7 \cdot 1,5\text{H}_2\text{O}$
- $M = 263,11 \text{ g/mol}$
- CAS [6132-05-4]
- EINECS-No.: 205-623-3
- Melting point: 149 °C
- Tariff number: 2918 15 00 90
- Applications: for pharmaceutical use (anticoagulant).

SPECIFICATIONS

assay (titration with HClO_4): 98 - 104 %
identity (IR-spectrum): passes test
pH (3 %, H_2O): 4,9 - 5,2
chlorides (Cl): max. 0,033 %
oxalates (C_2O_4): max. 0,01 %
sulfates (SO_4): max. 0,12 %
arsenic (As): max. 1 ppm
heavy metals (as Pb): max. 0,002 %
lead (Pb): max. 5 ppm
substances darkened by H_2SO_4 : passes test
water (K.F.): max. 13 %



di-Sodium hydrogen phosphate anhydrous, for analysis, ExpertQ®, ACS, Reag. Ph Eur

- Synonyms: Disodium hydrogen phosphate, Sodium phosphate dibasic
- Na_2HPO_4
- $M = 141,96 \text{ g/mol}$
- CAS [7558-79-4]
- EINECS-No.: 231-448-7
- Solub. in water: (20 °C): 77 g/l
- Melting point: ~ 250 °C (decomposes)
- LD 50 (oral, rat): 17000 mg/kg
- Tariff number: 2835 22 00 00
- Applications: analytical chemistry, in buffer solutions.

SPECIFICATIONS

assay (acidimetric): min. 99,0 %
identity (IR-spectrum): passes test
insoluble in water: max. 0,01 %
pH (5 %, H_2O): 8,7 - 9,3
chlorides (Cl): max. 0,001 %
sulfates (SO_4): max. 0,005 %
copper (Cu): max. 3 ppm
heavy metals: max. 0,001 %
iron (Fe): max. 0,001 %
lead (Pb): max. 0,001 %
loss on drying (105 °C): max. 0,2 %
potassium (K): max. 0,01 %



di-Sodium hydrogen phosphate dihydrate, for analysis, ExpertQ®, Reag. Ph Eur

- Synonyms: Sodium monohydrogen phosphate, Sodium phosphate dibasic
- $\text{Na}_2\text{HPO}_4 \cdot 2\text{H}_2\text{O}$
- $M = 177,99 \text{ g/mol}$
- CAS [10028-24-7]
- EINECS-No.: 231-448-7
- Solub. in water: (20 °C): 93 g/l
- Melting point: 92,5 °C (release of crystalline water)
- LD 50 (oral, rat): 17000 mg/kg (anhydrous substance)
- Tariff number: 2835 22 00 00
- Applications: analytical chemistry, in buffer solutions (phosphates).

SPECIFICATIONS

assay (acidimetric, referred to dried sample): 99,5 - 101,0 %

identification: passes test

appearance of solution: clear and colourless

pH (5 %, H_2O): 9,0 - 9,2

chlorides (Cl): 0,001 %

sulfates (SO_4): max. 0,005 %

total nitrogen (as N): max. 0,001 %

arsenic (As): max. 0,0004 %

copper (Cu): max. 3 ppm

heavy metals (as Pb): max. 0,001 %

iron (Fe): max. 0,001 %

potassium (K): max. 0,005 %

lead (Pb) : max. 0,0001 %

monosodium phosphate: max. 2,5 %

reducing substances: passes test

loss on drying (130 °C): 19,5 - 21,0 %



di-Sodium oxalate, for analysis, ExpertQ®, ACS, Reag. Ph Eur

- Synonyms: Oxalic acid sodium salt, Soerensen's buffer substances
- $\text{Na}_2\text{C}_2\text{O}_4$
- $M = 134,01 \text{ g/mol}$
- CAS [62-76-0]
- EINECS-No.: 200-550-3
- Solub. in water: (20 °C): 37 g/l
- Melting point: 250 - 270 °C (decomposes)
- LD 50 (oral, rat): 7500 mg/kg (oxalic acid)
- EC-Index-No.: 607-007-00-3
- GHS-signal word: Warning
- GHS-H sentences: H302 - H312
- GHS-P sentences: P280 - P264 - P270 - P321 - P301+P312 - P501a
- Tariff number: 2917 11 00 99
- Applications: analytical chemistry, reference material.
- Appearance: White solid

SPECIFICATIONS

assay (permanganometric): min. 99,8 %

insoluble matter: max. 0,005 %

acidity: passes test

chlorides (Cl): max. 0,002 %

phosphates (as PO_4): max. 0,005 %

sulfates (SO_4): max. 0,002 %

total nitrogen (as N): max. 0,001 %

ammonium (NH_4): max. 0,002 %

heavy metals (as Pb): max. 0,001 %

iron (Fe): max. 5 ppm

lead (Pb): max. 0,001 %

potassium (K): max. 0,005 %
substances darkened by H₂SO₄: passes test
loss on drying (105 °C): max. 0,01 %



Ethylenediaminetetraacetic acid, EDTA, disodium salt, dihydrate, for analysis, ExpertQ®, ACS, Reag. Ph Eur



Formic acid, 98 - 100%, for analysis, ExpertQ®, ACS, Reag. Ph Eur



Hexanoic acid, EssentQ®, Reag. Ph Eur



Iodine, pearls, resublimed, for analysis, ExpertQ®, ACS, ISO, Reag. Ph Eur



Iron(II) sulfate heptahydrate, for analysis, ExpertQ®, ACS, ISO, Reag. Ph Eur



Iron(III) nitrate nonahydrate, EssentQ®, Reag. Ph Eur



**L(+)-Lactic acid, 88- 90%, for analysis, ExpertQ®, ACS,
Reag. Ph Eur**



Lauric acid, EssentQ®, Reag. Ph Eur



**Lead(II) acetate trihydrate, for analysis, ExpertQ®, ACS,
ISO, Reag. Ph Eur**



**Lithium carbonate, for analysis, ExpertQ®, ACS, Reag. Ph
Eur**



Lithium chloride, EssentQ®



**Magnesium chloride hexahydrate, for analysis, ExpertQ®,
ACS, ISO, Reag. Ph Eur**



Magnesium nitrate hexahydrate, EssentQ®



Magnesium sulfate heptahydrate, for analysis, ExpertQ®, ACS, Reag. Ph Eur



Manganese(II) sulfate monohydrate, for analysis, ExpertQ®, ACS, Reag. Ph Eur



Mercury(II) acetate, for analysis, ExpertQ®, ACS, Reag. Ph Eur



Mercury(II) nitrate monohydrate, for analysis, ExpertQ®, Reag. Ph Eur



Mercury, metal, EssentQ®, washed, Reag. Ph Eur



Myristic acid, EssentQ®, Reag. Ph Eur



o-Xylene, EssentQ[®], Reag. Ph Eur



Orcinol monohydrate, Reag. Ph Eur



ortho-Phosphoric acid, 85%, for analysis, ExpertQ[®], ACS, ISO, Reag. Ph Eur



Oxalic acid dihydrate, for analysis, ExpertQ[®], ACS, ISO, Reag. Ph Eur



Petroleum ether, boiling range 30 - 40 °C, EssentQ[®], Reag. Ph Eur



Petroleum ether, boiling range 50 - 70 °C, EssentQ[®], Reag. Ph Eur



Phenol, crystallized, for analysis, ExpertQ[®], ACS, Reag. Ph Eur



Picric acid (with approx. 30% H₂O), for analysis,
ExpertQ®, ACS, Reag. Ph Eur



Potassium bromate, for analysis, ExpertQ®, ACS, ISO,
Reag. Ph Eur



Potassium carbonate, for analysis, ExpertQ®, ACS, ISO,
Reag. Ph Eur



Potassium chlorate, for analysis, ExpertQ®, ACS, Reag.
Ph Eur



Potassium chloride, for analysis, ExpertQ®, Reag. Ph Eur



Potassium cyanide, EssentQ®, Reag. Ph Eur



Potassium dihydrogen phosphate, for analysis, ExpertQ®, ACS, ISO, Reag. Ph Eur



Potassium fluoride, EssentQ®, Reag. Ph Eur



Potassium hexacyanoferrate(II) trihydrate, for analysis, ExpertQ®, ACS, ISO, Reag. Ph Eur



Potassium hydrogen carbonate, for analysis, ExpertQ®, Reag. Ph Eur



Potassium hydrogen phthalate, for analysis, ExpertQ®, Reag. Ph Eur



Potassium hydrogen sulfate, EssentQ®



Potassium hydroxide, pellets, for analysis, ExpertQ®, ACS, ISO, Reag. Ph Eur



Potassium iodate, for analysis, ExpertQ®, ACS, ISO, Reag. Ph Eur



Potassium iodide, for analysis, ExpertQ®, ACS, ISO, Reag. Ph Eur



Potassium nitrate, for analysis, ExpertQ®, ACS, ISO, Reag. Ph Eur



Potassium permanganate, for analysis, ExpertQ®, ACS, ISO, Reag. Ph Eur



Potassium peroxodisulfate, EssentQ®, Reag. Ph Eur



Potassium sulfate, for analysis, ExpertQ®, ACS, ISO, Reag. Ph Eur



Potassium thiocyanate, for analysis, ExpertQ®, ACS, ISO,
Reag. Ph Eur



Propionic acid, for analysis, ExpertQ®, ACS



Resorcinol, for analysis, ExpertQ®, Reag. Ph Eur



Silver nitrate, for analysis, ExpertQ®, ACS, ISO, Reag. Ph
Eur



Silver oxide, EssentQ®, Reag. Ph Eur



Sodium acetate anhydrous, for analysis, ExpertQ®, ACS,
Reag. Ph Eur



Sodium acetate trihydrate, for analysis, ExpertQ®, ACS,
ISO, Reag. Ph Eur



Sodium azide, EssentQ®, Reag. Ph Eur



Sodium bromide, for analysis, ExpertQ®, ACS, Reag. Ph Eur



Sodium carbonate anhydrous, for analysis, ExpertQ®, ACS, ISO, Reag. Ph Eur



Sodium carbonate decahydrate, for analysis, ExpertQ®, ISO, Reag. Ph Eur



Sodium chloride, for analysis, ExpertQ®, ACS, ISO, Reag. Ph Eur



Sodium dihydrogen phosphate dihydrate, for analysis, ExpertQ®, Reag. Ph Eur



Sodium disulfite, for analysis, ExpertQ®, ACS, Reag. Ph Eur



Sodium formate, for analysis, ExpertQ®, ACS, Reag. Ph Eur



Sodium hydrogen carbonate, for analysis, ExpertQ®, ACS, ISO, Reag. Ph Eur



Sodium hydroxide, pellets, for analysis, ExpertQ®, ACS, ISO, Reag. Ph Eur



Sodium iodide, for analysis, ExpertQ®, ACS, Reag. Ph Eur



Sodium metaperiodate, for analysis, ExpertQ®, ACS, Reag. Ph Eur



Sodium molybdate dihydrate, for analysis, ExpertQ®, ACS, Reag. Ph Eur



Sodium perchlorate monohydrate, EssentQ®, Reag. Ph Eur



Sodium phosphinate monohydrate, EssentQ®, Reag. Ph Eur



Sodium sulfite, for analysis, ExpertQ®, ACS, Reag. Ph Eur



Sodium, metal, in vaseline oil, EssentQ®, Reag. Ph Eur



Succinic acid, for analysis, ExpertQ®, ACS, Reag. Ph Eur



Sulfuric acid, 95 - 97%, for analysis, ExpertQ®, ISO, Reag. Ph Eur, packed in HDPE bottles



Tetrabutylammonium iodide, EssentQ®, Reag. Ph Eur



Tetrasodium diphosphate decahydrate, EssentQ®, Reag. Ph Eur



Tin(II) chloride dihydrate, for analysis, ExpertQ®, ACS, ISO, Reag. Ph Eur



Tin, granulated (1 - 3 mm), EssentQ®, Reag. Ph Eur



tri-Sodium citrate dihydrate, for analysis, ExpertQ®, ACS, ISO, Reag. Ph Eur



Tris-(hydroxymethyl)-aminomethane, buffer substance, for analysis, ExpertQ®, ACS, Reag. Ph Eur



Zinc acetate dihydrate, for analysis, ExpertQ®, ACS, Reag. Ph Eur



Zinc chloride, for analysis, ExpertQ®, ACS, ISO, Reag. Ph Eur



Zinc oxide, for analysis, ExpertQ®, ACS, Reag. Ph Eur



Zinc sulfate heptahydrate, for analysis, ExpertQ®, ACS, ISO, Reag. Ph Eur

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1,2-Propylene glycol, Pharmapur®, Ph Eur, BP, USP



1-Butanol, Pharmpur®, NF



1-Methyl-2-pyrrolidone, Pharmpur®, Ph Eur, BP



1-Propanol, Pharmpur®, Ph Eur



2-Propanol, Pharmpur®, Ph Eur, BP, USP



Acetic acid glacial, Pharmpur®, Ph Eur, BP, USP



Acetone, Pharmpur®, Ph Eur, BP, NF



Acetylsalicylic acid, Pharmpur®, Ph Eur, BP, USP



Aliphatic hydrocarbons mixture, EssentQ®



Aluminium ammonium sulfate dodecahydrate,
Pharmapur®, USP



Aluminium chloride hexahydrate, Pharmapur®, Ph Eur, BP,
USP



Aluminium potassium sulfate dodecahydrate, Pharmapur®,
Ph Eur, BP, USP



Aluminium sulfate 18-hydrate, Pharmapur®, Ph Eur, BP



Ammonia, solution 25% w/w, Pharmapur®, Ph Eur



Ammonia, solution 28% w/w, Pharmapur®, Ph Eur



Ammonium heptamolybdate tetrahydrate, Pharmpur®, USP



Barium sulfate, Pharmpur®, Ph Eur, BP



Benzoyl peroxide, moistened with 25% H₂O, Pharmpur®, Ph Eur, BP



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Benzyl benzoate, Pharmpur®, Ph Eur, BP, USP



Bismuth(III) hydroxide nitrate, Pharmpur®, Ph Eur, BP, USP



Caffeine anhydrous, Pharmpur®, Ph Eur, BP, USP



Calcium carbonate, precipitated, Pharmapur®, Ph Eur, BP, USP



Calcium chloride dihydrate, powder, Pharmapur®, Ph Eur, BP, USP



Calcium hydrogen phosphate dihydrate, Pharmapur®, Ph Eur, BP, USP



Calcium hydroxide, powder, Pharmapur®, Ph Eur, BP, USP



Calcium lactate pentahydrate, Pharmapur®, Ph Eur, BP, USP



Calcium sulfate dihydrate, Pharmapur®, Ph Eur, BP, NF



Cholesterol, Pharmpur®, Ph Eur, BP, NF



Citric acid anhydrous, Pharmpur®, Ph Eur, BP, USP



Copper(II) chloride dihydrate, Pharmpur®, USP



Copper(II) sulfate anhydrous, Pharmpur®, Ph Eur, BP, USP



Copper(II) sulfate pentahydrate, Pharmpur®, Ph Eur, BP, USP



Dextrin white, Pharmpur®, Ph Eur



di-Ammonium hydrogen phosphate, Pharmpur®, NF



**di-Potassium hydrogen phosphate anhydrous,
Pharmapur®, Ph Eur, BP**



di-Sodium hydrogen citrate 1,5-hydrate, Pharmapur®, BP



**di-Sodium hydrogen phosphate anhydrous, Pharmapur®,
Ph Eur, BP, USP**



**di-Sodium hydrogen phosphate dihydrate, Pharmapur®, Ph
Eur, BP, USP**



**di-Sodium hydrogen phosphate dodecahydrate,
Pharmapur®, Ph Eur, BP**



**di-Sodium tetraborate decahydrate, Pharmapur®, Ph Eur,
BP, NF**



**Dichloromethane, stabilized with approx. 50 ppm of
amylene, Pharmapur®, Ph Eur, BP, NF**



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Dimethyl sulfoxide, Pharmpur®, Ph Eur, USP



DL-Malic acid, Pharmpur®, Ph Eur, BP, NF



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Ethanol absolute, Pharmpur®, Ph Eur, BP, USP



Scharlau

Ethyl acetate, Pharmapur®, Ph Eur, BP, NF



Scharlau

Ethylenediamine, Pharmapur®, Ph Eur, BP, USP



Scharlau

Ethylenediaminetetraacetic acid, EDTA, disodium salt, dihydrate, Pharmapur®, Ph Eur, BP, USP



Scharlau

Ethylmercurithiosalicylic acid, sodium salt, Pharmapur®, Ph Eur, USP



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Glycerol, 99%, Pharmapur®, Ph Eur, BP, USP



Scharlau

Glycine, Pharmapur®, Ph Eur, BP, USP



Scharlau

Gum arabic, powder, EssentQ®



Scharlau

Hydrochloric acid, solution min. 35% w/w, Pharmapur®, Ph Eur



Scharlau

Iodine, pearls, resublimed, Pharmapur®, Ph Eur, BP, USP



Scharlau

Iron(II) sulfate heptahydrate, Pharmapur®, Ph Eur, BP, USP



Scharlau

L(+)-Lactic acid, 88 - 92%, Pharmapur®, Ph Eur, BP



Scharlau

Magnesium chloride hexahydrate, Pharmapur®, Ph Eur, BP, USP



Scharlau

Magnesium oxide, Pharmapur®, Ph Eur, BP, USP



Scharlau

Magnesium stearate, Pharmapur®, Ph Eur, BP, NF



Scharlau

Magnesium sulfate heptahydrate, Pharmapur®, Ph Eur, BP, USP



Scharlau

Maleic acid, Pharmapur®, Ph Eur, BP



Scharlau

Manganese(II) sulfate monohydrate, Pharmapur®, Ph Eur, BP, USP



Scharlau

Mercury(II) chloride, Pharmapur®, Ph Eur, BP



Scharlau

Methanol, Pharmapur®, Ph Eur, BP, NF



Scharlau

Methyl 4-hydroxybenzoate, Pharmapur®, Ph Eur, BP, NF



Scharlau

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Scharlau

Nicotinic acid, EssentQ®



Scharlau

Nitric acid, solution min. 65% w/w, ISO, Reag. Ph Eur, for determinations with dithizone



Scharlau

ortho-Phosphoric acid, 85%, Pharmpur®, Ph Eur, BP, NF



Scharlau

Pepsin 1:3000, ExpertQ®, Reag. USP



Scharlau

Phenol, 99,5%, Pharmpur®, Ph Eur, BP, USP



Scharlau

Phenol, approx. 80% w/w, aqueous solution, EssentQ®



Scharlau

Phenol, approx. 90%, aqueous solution, Pharmpur®, USP



Phenol, crystallized, Pharmpur®, Ph Eur, BP, USP



Potassium acetate, Pharmpur®, Ph Eur, BP



Potassium carbonate, Pharmpur®, Ph Eur, BP, USP



Potassium chloride, Pharmpur®, Ph Eur, BP, USP



Potassium dihydrogen phosphate, Pharmpur®, Ph Eur, BP, NF



Potassium disulfite, Pharmpur®, Ph Eur, NF



Potassium hydrogen tartrate, Pharmpur®, Ph Eur, BP



Potassium hydroxide, pellets, Pharmapur®, Ph Eur, BP, NF



Potassium iodide, Pharmapur®, Ph Eur, BP, USP



Potassium nitrate, Pharmapur®, Ph Eur, BP, USP



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Potassium sodium tartrate tetrahydrate, Pharmapur®, Ph Eur, BP, USP



Potassium sorbate, Pharmapur®, Ph Eur, BP, NF



Potassium sulfate, Pharmapur®, Ph Eur, BP



Procaine hydrochloride, Pharmapur®, Ph Eur, BP, USP



Quinine sulfate dihydrate, Pharmapur®, Ph Eur, BP, USP



Resorcinol, Pharmapur®, Ph Eur, BP



Silver nitrate, Pharmapur®, Ph Eur, BP, USP



Sodium acetate trihydrate, Pharmapur®, Ph Eur, BP, USP



Sodium benzoate, Pharmapur®, Ph Eur, BP, NF



Sodium bromide, Pharmapur®, Ph Eur, BP, USP



Sodium carbonate anhydrous, Pharmapur®, Ph Eur, BP, NF



Sodium carbonate decahydrate, Pharmapur®, Ph Eur, BP



Sodium chloride, Pharmapur®, Ph Eur, BP, USP



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Sodium dihydrogen phosphate monohydrate, Pharmapur®, BP, USP



Sodium disulfite, Pharmapur®, Ph Eur, BP, NF



Sodium fluoride, Pharmapur®, Ph Eur, BP, USP



Sodium hydrogen carbonate, Pharmapur®, Ph Eur, BP, USP



Sodium hydroxide, pellets, Pharmapur®, Ph Eur, BP, NF



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Sodium lactate, solution 50% w/w, Pharmapur®, Ph Eur, BP, USP



Sodium lauryl sulfate, Pharmapur®, Ph Eur, BP, NF



Sodium molybdate dihydrate, Pharmapur®, Ph Eur, BP



Sodium sulfate decahydrate, Pharmapur®, Ph Eur, BP, USP



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Sodium thiosulfate pentahydrate, Pharmapur®, Ph Eur, BP, USP



Sulfur flower, Pharmapur®, Ph Eur, BP



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**Sulfuric acid, 95 - 98%, Pharmapur®, Ph Eur, BP, USP,
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Tin(II) chloride dihydrate, Pharmapur®, Ph Eur, BP



tri-Calcium dicitrate tetrahydrate, powder, Pharmapur®,
USP



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tri-Potassium citrate monohydrate, Pharmapur®, Ph Eur,
BP, USP



tri-Sodium citrate dihydrate, Pharmapur®, Ph Eur, BP, USP



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Triethanolamine, Pharmapur®, Ph Eur, NF



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Zinc sulfate heptahydrate, Pharmapur®, Ph Eur, BP, USP



Boric acid, Pharmapur®, Ph Eur, BP, NF



Citric acid monohydrate, Pharmapur®, Ph Eur, BP, USP



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