






PO0310 di-Potassium oxalate monohydrate, ExpertQ®, for analysis, ACS 

assay (permanganometric) 99,5 - 101 %
 insoluble in water max. 0,01 %
 pH (5 %, H₂O) 7 - 8,5
 acidity passes test
 alkalinity passes test
 chlorides (Cl) max. 0,001 %
 sulfates (SO₄) max. 0,01 %

total nitrogen (as N) max. 0,001 %
 ammonium (NH₄) max. 0,002 %
 heavy metals (as Pb) max. 0,001 %
 iron (Fe) max. 5 ppm
 sodium (Na) max. 0,02 %
 substances darkened by hot H₂SO₄ passes test

ART. NO.	VOLUME	CONTAINER
PO03100500	500 g	
PO03101000	1 kg	
PO0310005P	5 kg	
PO0310025P	25 kg	

POTASSIUM PERMANGANATE

- Synonyms: Permanganic acid potassium salt
- KMnO₄
- M = 158,04 g/mol
- CAS [7722-64-7]
- EINECS-No.: 231-760-3
- Solub. in water: (20 °C): 64 g/l
- Melting point: > 240 °C (decomposes)
- Vapour pressure: (20 °C) < 0,01 hPa





- LD 50 (oral, rat): 1090 mg/kg
- EC-Index-No.: 025-002-00-9
- ADR: 5.1 O2 II UN 1490
- IMDG: 5.1 II UN 1490
- IATA/ICAO: 5.1 II UN 1490
- GHS-signal word: Danger
- GHS-H sentences: H272 - H400 - H410 - H302

- GHS-P sentences: P221 - P210 - P220 - P280 - P273 - P501a
- Tariff number: 2841 61 00 00
- Applications: analytical chemistry, laboratory reagent, synthesis of organic products, bleaching agent, photography, antiseptic.
- Appearance: Dark-brown black crystalline powder

PO0330 Potassium permanganate, extra pure, Pharpur®, Ph Eur, BP, USP   

assay (iodometric) 99,0 - 100,5 %
 assay (permanganometric, referred to dried sample) 99,0 - 100,5 %
 identification passes test
 appearance of solution colourless
 insoluble in water max. 0,2 %
 chlorides (Cl) max. 200 ppm






sulfates (SO₄) max. 500 ppm
 loss on drying (silica gel) max. 0,5 %
 Elemental impurities are analysed according to guideline CHMP/ICH/353369/2013.
 Residual solvents are analysed according to guideline CPMP/ICH/283/95.

ART. NO.	VOLUME	CONTAINER
PO03300500	500 g	
PO03301000	1 kg	
PO0330005P	5 kg	
PO0330025P	25 kg	

PO0331 Potassium permanganate, ExpertQ®, for analysis, ACS, ISO, Reag. Ph Eur   

assay (permanganometric) min. 99,0 %
 assay (iodometric) 99,0 - 100,5 %
 identity (IR-spectrum) passes test
 appearance of solution colourless
 insoluble in water max. 0,1 %
 chlorides (Cl) max. 0,005 %
 chlorides and chlorates (as Cl) max. 0,005 %
 sulfates (SO₄) max. 0,005 %

total nitrogen (as N) max. 0,005 %
 copper (Cu) max. 0,001 %
 heavy metals (as Pb) max. 0,003 %
 iron (Fe) max. 0,002 %
 lead (Pb) max. 0,002 %

ART. NO.	VOLUME	CONTAINER
PO03310250	250 g	
PO03310500	500 g	
PO03311000	1 kg	
PO0331005P	5 kg	
PO0331025P	25 kg	

POTASSIUM PERMANGANATE, VOLUMETRIC SOLUTIONS

PO0335 Potassium permanganate, solution 0,2 mol/l (1 N) 

- KMnO₄
- M = 158,04 g/mol
- CAS [7722-64-7]
- EINECS-No.: 231-760-3
- Density: 1,02 g/cm³
- EC-Index-No.: 025-002-00-9
- ADR: 9 M6 III UN 3082
- IMDG: 9 III UN 3082
- IATA/ICAO: 9 III UN 3082
- GHS-H sentences: H411
- GHS-P sentences: P273 - P391 - P501a
- Tariff number: 2841 61 00 00

- Applications: analytical chemistry, titrant in volumetric analysis.
- factor 0,999 - 1,001
 uncertainty ± 0,001
 1 ml = 0,0316 g KMnO₄
 This volumetric solution was checked by means of potentiometric methods using Scharlau's disodium oxalate volumetric standard. Scharlau's volumetric standards are directly traceable to the Standard Reference Materials from NIST (National Institute of Standards and Technology, USA).

ART. NO.	VOLUME	CONTAINER
PO03351000	1 l	