

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

Identification

KMnO₄
 M = 158,04 g/mol
 CAS [7722-64-7]
 EC number: 231-760-3
 Taric code: 2841 61 00

Synonyms

Permanganic acid potassium salt

Applications

analytical chemistry, laboratory reagent, synthesis of organic products, bleaching agent, photography, antiseptic.

Specifications

assay (permanganometric).....	min. 99,0 %	chlorides and chlorates (as Cl).....	max. 0,005 %
assay (iodometric).....	99,0 - 100,5 %	sulfates (SO ₄).....	max. 0,005 %
identity (IR-spectrum).....	passes test	total nitrogen (as N).....	max. 0,005 %
appearance of solution.....	colourless	copper (Cu).....	max. 0,001 %
insoluble in water.....	max. 0,1 %	heavy metals (as Pb).....	max. 0,003 %
chlorides (Cl).....	max. 0,005 %	iron (Fe).....	max. 0,002 %
		lead (Pb).....	max. 0,002 %

Physical data

- Appearance: crystals, violet or dark green
- Spec. Density: 2,70 g/cm³
- Bulk density: ~ 1300 - 1600 kg/m³
- Solub. in water: (20 °C): 64 g/l
- Melting point: > 240 °C (decomposes)
- Vapour pressure: (20 °C) < 0,01 hPa
- pH(20 g/l H₂O, 20 °C) ~ 7 - 9

Safety - GHS

Signal Word: Danger

Hazard Statements:

- H272: May intensify fire; oxidiser.
 H302: Harmful if swallowed.
 H314: Causes severe skin burns and eye damage.
 H373: May cause damage to organs through prolonged or repeated exposure.
 H410: Very toxic to aquatic life with long lasting effects.
 H361d: Suspected of damaging the unborn child.



Precautionary Statements:

- P221: Take any precaution to avoid mixing with combustibles.
 P303+P361+P353: IF ON SKIN (or hair): Remove / Take off immediately all contaminated clothing. Rinse skin with water / shower.
 P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P310: Immediately call a POISON CENTER or doctor / physician.
 P370+P378: In case of fire: Use ... for extinction.
 P405: Store locked up.
 P501a: Dispose of contents / container in accordance with local / regional / national / international regulations.

Transport/storage

- ADR: 5.1 O2 II • UN 1490 • POTASSIUM PERMANGANATE
- IMDG: 5.1 II • UN 1490 • POTASSIUM PERMANGANATE
- IATA/ICAO: 5.1 II • UN 1490 • POTASSIUM PERMANGANATE
- PAX: 508
- CAO: 511
- 10°C - 30°C