

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, in pharma industry.

Specifications

assay (iodometric).....	99,0 - 100,5 %	appearance of solution.....	colourless
assay (permanganometric, referred to dried sample) %	99,0 - 100,5	insoluble in water.....	max. 0,2 %
Identification IR.....	passes test	chlorides (Cl).....	max. 200 ppm
Identification permanganate.....	passes test	sulfates (SO ₄).....	max. 500 ppm
Identification potassium.....	passes test	loss on drying (silica gel).....	max. 0,5 %

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