

Identification

KIO₃
M = 214,00 g/mol
CAS [7758-05-6]
EC number: 231-831-9
Taric code: 2829 90 80

Applications

analytical chemistry, laboratory reagent, titrant in volumetric analysis (oxidizing agent), in food industry.

Specifications

assay (iodometric).....	99,7 - 100,4 %	sulfates (SO ₄).....	max. 0,005 %
identity (IR-spectrum).....	passes test	nitrogen compounds (as N).....	max. 0,002 %
insoluble in water.....	max. 0,005 %	arsenic (As).....	2 ppm
pH (5 %, H ₂ O).....	5,0 - 8,0	heavy metals.....	5 ppm
chlorides, chlorates, bromides and bromates (as Cl).....	max. 0,01 %	iron (Fe).....	max. 0,001 %
chlorides and chlorates (as Cl).....	max. 0,01 %	sodium (Na).....	max. 0,005 %
iodides (I).....	max. 0,001 %	loss on drying (130 °C).....	max. 0,05 %

Physical data

- Appearance: crystals, almost white
- Spec. Density: 3,98 g/cm³
- Bulk density: ~ 2000 kg/m³
- Solub. in water: (20 °C): soluble
- Melting point: 560 °C
- pH(50 g/l H₂O, 20 °C) ~ 6

Safety - GHS

Signal Word: Danger

Hazard Statements:

- H272: May intensify fire; oxidiser.
H302: Harmful if swallowed.
H317: May cause an allergic skin reaction.
H319: Causes serious eye irritation.
H335: May cause respiratory irritation.

Precautionary Statements:

- P221: Take any precaution to avoid mixing with combustibles.
P210: Keep away from heat / sparks / open flames / hot surfaces. - No smoking.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
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 1479 • OXIDIZING SOLID, N.O.S.(Potassium iodate)
- IMDG: 5.1 II • UN 1479 • OXIDIZING SOLID, N.O.S. (Potassium iodate)
- IATA/ICAO: 5.1 II • UN 1479 • OXIDIZING SOLID, N.O.S. (Potassium iodate)
- PAX: 508
- CAO: 511
- 10°C - 30°C