

Identification

KIO₄
M = 230,00 g/mol
CAS [7790-21-8]
EC number: 232-196-0
Taric code: 2829 90 80

Synonyms

Potassium tetroxiodate

Applications

synthesis of organic products, oxidizing agent, for colourimetric determinations (manganese).

Specifications

assay (iodometric, on dried sample).....	99,8 - 100,3 %	sulfates (SO ₄).....	max. 0,005 %
insoluble in water.....	max. 0,005 %	heavy metals (as Pb).....	max. 0,001 %
pH (0,5 %, H ₂ O).....	5,0 - 5,4	iron (Fe).....	max. 0,001 %
other halogens (as Cl).....	max. 0,01 %	manganese (Mn).....	max. 1 ppm
iodides (I).....	max. 0,001 %	sodium (Na).....	max. 0,03 %
		loss on drying (110 °C).....	max. 0,05 %

Physical data

- Spec. Density: (15 °C) 3,62 g/cm³
- Bulk density: ~ 1500 - 1800 kg/m³
- Solub. in water: (20 °C): 7 g/l
- Melting point: 581 °C
- pH(5 g/l H₂O, 25 °C) ~ 5,1

Safety - GHS

Signal Word: Danger

Hazard Statements:

H272: May intensify fire; oxidiser.

**Precautionary Statements:**

- P221: Take any precaution to avoid mixing with combustibles.
P210: Keep away from heat / sparks / open flames / hot surfaces. - No smoking.
P220: Keep / Store away from clothing / combustible materials.
P280: Wear protective gloves / protective clothing / eye protection / face protection.
P370+P378: In case of fire: Use ... for extinction.
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 metaperiodate)
- IMDG: 5.1 II • UN 1479 • OXIDIZING SOLID, N.O.S. (Potassium metaperiodate)
- IATA/ICAO: 5.1 II • UN 1479 • OXIDIZING SOLID, N.O.S. (Potassium metaperiodate)
- PAX: 508
- CAO: 511
- 10°C - 30°C