

Identification

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

Specifications

assay (on dried sample).....99,4 - 100,4 %
 chlorides and bromides (as Cl)..... max. 0,01 %
 iodides (I)..... max. 0,001 %
 sulfates (SO₄)..... max. 0,005 %
 total nitrogen (as N)..... max. 0,005 %

heavy metals (as Pb)..... max. 0,0005 %
 iron (Fe)..... max. 0,001 %
 sodium (Na)..... max. 0,005 %

This standard solution is traceable to Standard Reference Material from NIST.

Physical data

- 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