

Identification

KI
M = 166,01 g/mol
CAS [7681-11-0]
EC number: 231-659-4
Taric code: 2827 60 00

Synonyms

Knollide

Applications

analytical chemistry, laboratory reagent, emulsifier (photography).

Specifications

assay (argentometric).....	min. 99,5 %	phosphates (PO ₄).....	max. 10 ppm
assay (titrimetric, referred to dried sample).....	99,0 - 100,5 %	sulfates (SO ₄).....	max. 50 ppm
assay (titrimetric).....	min. 99,0 %	thiosulfates (S ₂ O ₃).....	passes test
Identification iodides.....	passes test	total nitrogen (as N).....	max. 0,001 %
Identification potassium.....	passes test	arsenic (As).....	max. 0,1 ppm
appearance of solution	passes test	barium (Ba).....	max. 20 ppm
insoluble in water.....	max. 0,005 %	calcium (Ca).....	max. 10 ppm
pH (5 %, H ₂ O).....	6,0 - 8,0	heavy metals (as Pb).....	max. 5 ppm
alkalinity.....	passes test	iron (Fe).....	max. 3 ppm
chlorides and bromides (as Cl).....	max. 100 ppm	magnesium (Mg).....	max. 10 ppm
iodates (IO ₃).....	max. 3 ppm	sodium (Na).....	max. 50 ppm
iodates (IO ₃).....	passes test	reducing substances.....	passes test
iodates (IO ₃) and iodine (I) (as IO ₃)	max. 3 ppm	loss on drying (105 °C, 3 h).....	max. 1,0 %
		loss on drying (150°C, 6 h).....	max. 0,2 %

Physical data

- Appearance: crystals, white or almost white
- Spec. Density: 3,13 g/cm³
- Bulk density: ~ 1500 kg/m³
- Solub. in water: (20 °C): soluble
- Melting point: 686 °C
- Boiling point: 1330 °C
- Vapour pressure: (745 °C) 1,3 hPa
- pH(50 g/l H₂O, 20 °C) ~ 6,9
- Hygroscopic

Safety - GHS

Signal Word: Danger

Hazard Statements:

H372: Causes damage to organs through prolonged or repeated exposure.

**Precautionary Statements:**

- P260: Do not breathe dust / fume / gas / mist / vapours / spray.
- P264: Wash thoroughly after handling.
- P270: Do not eat, drink or smoke when using this product.
- P314: Get medical advice / attention if you feel unwell.
- P501a: Dispose of contents / container in accordance with local / regional / national / international regulations.

Transport/storage

- 10°C - 30°C