

Identification

NaI
 M = 149,89 g/mol
 CAS [7681-82-5]
 EC number: 231-679-3
 Taric code: 2827 60 00

Applications

analytical chemistry, laboratory reagent, photography, synthesis of organic products, in optics, in the pharmaceuticals industry.

Specifications

assay (iodometric).....	min. 99,5 %	sulfates (SO ₄).....	max. 0,002 %
assay (iodometric, referred to dried sample).....	99,0 - 100,5 %	thiosulfates (S ₂ O ₃).....	passes test
identity (IR-spectrum).....	passes test	barium (Ba).....	max. 0,002 %
appearance of solution.....	clear and colourless	calcium (Ca).....	max. 0,001 %
insoluble in water.....	max. 0,01 %	copper (Cu).....	max. 1 ppm
alkalinity.....	passes test	heavy metals (as Pb).....	max. 5 ppm
pH (5 %, H ₂ O).....	6,0 - 9,0	iron (Fe).....	max. 5 ppm
chlorides and bromides (as Cl).....	max. 0,01 %	lead (Pb).....	max. 1 ppm
iodates (IO ₃).....	passes test	magnesium (Mg).....	max. 0,001 %
iodates (IO ₃).....	max. 3 ppm	nickel (Ni).....	max. 0,1 ppm
phosphates (as PO ₄).....	max. 0,001 %	potassium (K).....	max. 0,01 %
		loss on drying (105 °C).....	max. 3,0 %

Physical data

- Appearance: crystals, white or almost white
- Spec. Density: 3,67 g/cm³
- Bulk density: ~ 1500 - 2000 kg/m³
- Solub. in water: (20 °C): soluble
- Melting point: 662 °C
- Boiling point: 1304 °C
- Vapour pressure: (767 °C) 1,3 hPa
- pH(50 g/l H₂O, 20 °C) ~ 6 - 9

Safety - GHS

Signal Word: Danger

Hazard Statements:

- H315: Causes skin irritation.
 H319: Causes serious eye irritation.
 H372: Causes damage to organs through prolonged or repeated exposure.
 H400: Very toxic to aquatic life.



Precautionary Statements:

- P260: Do not breathe dust / fume / gas / mist / vapours / spray.
 P280: Wear protective gloves / protective clothing / eye protection / face protection.
 P273: Avoid release to the environment.
 P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P321: Specific treatment (see on this label).
 P501a: Dispose of contents / container in accordance with local / regional / national / international regulations.

Transport/storage

- ADR: 9 M7 III • UN 3077 • ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.(Sodium iodide)
- IMDG: 9 III • UN 3077 • ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.(Sodium iodide)
- IATA/ICAO: 9 III • UN 3077 • ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.(Sodium iodide)
- PAX: 956
- CAO: 956
- 10°C - 30°C