

SPECIFICATION

Product Name: Potassium Iodide IP Grade
Chemical Formula: KI
CAS Number: 7681-11-0
Molecular Weight: 166.00 g/mol
Appearance: A White Powder
Odor: Odorless.

Chemical Composition

Parameter	Unit	Typical Value	Specification (Min/Max)
Identification	-	Complies the test	The solution gives the reaction of potassium salts, and of iodides.
Appearance of Solution	-	Clear and colourless	Solution A is clear and colourless.
Alkalinity	-	Complies the test	No colour is produced on addition of drop of a phenolphthalein solution
Arsenic	PPM	Not detected	NMT 2 PPM
Heavy metals	PPM	< 10 PPM	NMT 10 PPM
Iron	PPM	<20 PPM	NMT 20 PPM
Barium	-	Complies the test	No turbidity develops within one min.
Cyanide	-	Complies the test	No blue colour produced
Iodate	-	Complies the test	No blue colour is produced within 2 min.
Sulphate	PPM	<150 PPM	NMT 150 PPM
Thiosulphate	-	Complies the test	A blue colour is produced.
Loss on drying	%	0.20%	NMT 1.0%
Assay (on dried basis)	%	99.24%	NLT 99.0% and NMT 100.5% of KI

Physical Properties

- Solubility: Freely soluble in water. Soluble in glycerin. Slightly soluble in ethanol. Practically insoluble in acetone. Insoluble in ether.

Shelf Life & Storage

- Shelf Life: 5 years from date of manufacture under recommended storage.
- Storage Conditions: Store in a tightly closed, light-resistant container in a cool, dry, and well-ventilated place, protected from moisture, heat, and direct sunlight. Keep the container tightly sealed when not in use to prevent oxidation and exposure to air.

Applications

- Use: Widely used as an iodine supplement, nutritional fortification ingredient, and pharmaceutical raw material. It provides a readily available source of iodine, which is essential for thyroid hormone synthesis, normal growth, metabolism, and overall health.
- Dosage: Depends on the intended application, age group, and desired iodine intake.

Packaging

- Standard Packing: 25 Kgs HDPE Drum and 1 Kgs or as per customer requirement.
- Labeling: Product name, batch number, net weight, manufacture date, expiry date, and manufacturer details.

* Specifications are based on the manufacturer's provided specifications.