

TECHNICAL DATA SHEET

POTASSIUM IODIDE



Description :

Potassium iodide is a nonhazardous, binary, inorganic salt. For use when your potassium iodide material must be well tested for use in any application. Excellent for use as a stabilizing agent in all iodine solutions, for making tincture of iodine, wound sprays, as a source of elemental dietary iodine in all species, and as an iodine source in aquarium salts, and similar products. This material is designed to work in all other applications requiring a well tested potassium iodide product. This free flowing potassium iodide meets, or surpasses, all guidelines for KI to receive the IP/BP/AR/LR/ACS/STABILIZED GRADE.

Applications:

- It finds its applications mainly in organic synthesis for the preparation of Aryl iodides [Sandmeyer Reaction] from Aryl amine. Aryl amines are first diazotized by the action of Nitrous acid to obtain Arenediazonium salts which are then iodinated by using Potassium iodide to obtain Aryl Iodide.
- It is used as a key raw material in the synthesis of Iodo alkanes such as Methyl iodide and also in the preparation of Silver Iodide which is used in Photography for high speed photographic films.
- Industrial, Pharmaceutical, Nutritional, Laboratory.
- It is useful in the treatment of radiation poisoning resulting from nuclear accidents and also as a nutritional supplement for iodine in poultry feeds.

Product Name	:	POTASSIUM IODIDE
Brand Name	:	PI
Synonym	:	Potassium Iodide
CAS NO.	:	7681-11-0
Molecular Formula	:	KI
Molecular Weight	:	166.0 g/mol
Description	:	A white crystalline powder, odorless, taste saline, bitter deliquescent in moist air.
Solubility	:	Very soluble in water, freely soluble in Glycerine; Soluble in 95 % Ethanol.
pH	:	6 to 8
Iodates	:	No blue colour develops.
Sulphate	:	Max. 150 ppm
Thiosulphate & Barium	:	No blue coloration of the paper is discernible.
Heavy Metals	:	Max. 10 ppm
Iron	:	Max. 20 ppm
Insoluble matter	:	Max. 0.02%
Calcium	:	0.01%
Magnesium	:	Max. 0.005 %
Sodium	:	Max. 0.2 %
Nitrate, Nitrite and Ammonium.	:	No blue coloration of red litmus paper discernible.
Loss on drying	:	Max. 0.5 %
Assay (ODB)	:	99.0 % to 100.5 %
HS Code	:	28276010

Grade : IP/BP/USP/AR/LR/Pure/ACS grade.

Packing: Net weight: 25 Kg with a tolerance of $\pm 0,02$ Kg. Inside packing: double plastic bag Outside packing: HDPE box.



Storage :Moisture Sensitive. Light Sensitive. Air Sensitive Keep container tightly closed in light-resistant containers. Keep container in a cool, well-ventilated area.

Transportation: Not classified as dangerous goods.

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