

Potassium Iodide

1. Basic Information

Product Name	Potassium Iodide
Structural Formula	$K^+ \quad I^-$
Molecular Formula	KI
CAS No.	7681-11-0
EINECS	231-659-4
Description	White crystalline powder.

2. Specifications

Characteristics	Specification
Assay as KI on dry basis	99.8 % Min.
10% aqueous solution	Clear and colourless
pH of 5% aqueous solution	6.0 - 9.0
Insoluble matter	0.003 % Max.
Loss on drying	0.20 % Max.
Acidity as HI	0.0065% Max.
Alkalinity as KOH	0.006% Max.
Chloride and Bromide as Cl	0.01 % Max.
Iodate as IO ₃	0.0002 % Max.
Nitrogenous compound as N	0.001 % Max.
Phosphate as PO ₄	0.001 % Max.
Sulphate as SO ₄	0.002 % Max.
Lead as Pb	0.0002 % Max.
Iron as Fe	0.0002 % Max.
Arsenic as As	0.00001% Max.
Barium as Ba	0.001 % Max.
Calcium as Ca	0.0005% Max.
Copper as Cu	0.0002% Max.
Magnesium as Mg	0.0005% Max.
Sodium as Na	0.005% Max.
Heavy Metal	0.0005% Max.
Physical Properties	
Bulk Density (approx.)	1.7 g/cc
Particle Density	3.12 g/cc

TECHNICAL SPECIFICATION

Solubility in water	140 g/100 g
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3. Additional Information

Packing

25 kg net HDPE drums with double PE liner bags.

900 kg net 1200x1000mm pallet, ISM-15 compliant, 18 MT per 20' FCL

Stability

Stable at ambient temperatures in sealed containers.

Hygroscopic.

Cakes hard on storage.

Discolours on prolonged exposure to atmosphere.

Shelf life 3 years from manufacturing date.

Storage & Handling

Store in closed containers away from heat and moisture.

Causes irritation. Wear goggles and rubber gloves when handling bulk quantities. Harmful if swallowed.

Avoid contact with eyes, skin, clothing. In case of spillage, collect into container for disposal. Flush with plenty of water.

Use

Reagent in analytical chemistry

Food and feed additive as source of trace element iodine

Photographic emulsions

Nylon tyre cord industry.

In polarizing films for liquid crystal displays (LCD/LED)