



SODIUM IODIDE – Physical & Chemical Properties

CASR No.	[7681-82-5]
EC-No.	231-679-3
HS-No.	2827 60 00
RTECS	WB6475000
Poison class	(CH) 4
Merck-Index	10, 8469
LD 50 oral rat	4340 mg / kg
Mol. Formula	NaI
Mol. Weight	149.89
Specific Density, 20 °C	3.67 g/cm ³
Bulk Density	1500 - 2000 kg/m ³
Melting Range	662 °C
Boiling Point	1304 °C
Vapour Pressure, 767 °C	1.3 hPa
Solubility in H ₂ O, 20 °C	179.3 g per 100 ml
pH value (50g/l, H ₂ O, 20 °C)	6 - 9
Atmospheric Susceptibility	Very hygroscopic
Chemical Reaction	Corrosive

Relevant Risk, Safety & Disposal Aspects

Risk	R 42/43	May cause sensitization by inhalation and skin contact.
Safety	R 22/36/37	Do not breathe dust. Wear suitable protective clothing & gloves.
Disposal	D 14	Neutral solution is prepared prior to disposal.

Application, Storage & Packing

Application	In pharmaceutical formulations, as source of iodine, in organic synthesis & as analytical reagent.
Storage	Store in a well closed container.
Packing	In 25 kg with double polythene bags inside HDPE Drum.



SODIUM IODIDE – LR

Description	White fine crystalline powder
Assay (argentometric, dry basis)	99.0 – 100.5%
pH (5% w/v in water)	6.0 – 9.0

Maximum Limits of Impurities

Loss on drying (110 °C, 2 hours)	0.5 %
Iodate (IO ₃)	0.0003 %
Sulphate (SO ₄)	0.005 %
Heavy metals (as Pb)	0.001 %
Iron (Fe)	0.0005 %