



HYDRIODIC ACID 47 % & 57 % - Physical & Chemical Properties [Hydroiodic Acid]

CASR No.	[10034 – 85 - 2]
EC-No.	233 – 10 - 99
HS-No.	2811 19 80
Road / Rail	8 / 5 b
IMDG Code	8 / II UN 17876.1 / I UN 2644
IATA / DGR	8 / II UN 1787 CAO 813 PAX 809
Packing-cat	A
Poison-class	(CH) 2
Merck-Index	10, 4678
Mol. Formula	HI in H ₂ O
Mol. Weight	127.92
Specific Density, 20 °C	~1.50 & ~1.67 g / cm ³
Boiling Point	~127 °C (Test in preparation)
Solubility in H ₂ O, 20 °C	Soluble
Atmospheric Susceptibility	Light sensitive
Chemical Reaction	Corrosive

Relevant Risk, Safety & Disposal Aspects

Risk	R 34	Causes burns.
Safety	S 26	In case contact with eyes, rinse immediately with plenty of water and seek medical assistance.
	S 36	Wear suitable protective clothing.
	S 37	Irritating to respiratory system.
	S 39	Wear eye / face protection.
	S 45	In case of accident seek expert medical advice.
Disposal	D 12	It should be diluted first and neutralized with Sodium thiosulphate solution.

Application, Storage & Packing

Application	In Organic & Inorganic preparations.
Storage	Store in a air tight container in a cool & dark place away from light.
Packing	25 kg HDPE Carboys.



HYDRIODIC ACID 57 % - LR

[Stabilized with Hypophosphorus acid] - optional

Description	Reddish-brown solution
Assay (alkalimetric)	min. 57.0 % w/w
Density [20 °C/ 4 °C]	~ 1.67 g / cm ³

Maximum Limits of Impurities

Non-Volatile matter	0.06 %
Chloride and bromide (Cl)	0.03 %
Sulphur compounds (as SO ₄)	0.005 %
Heavy metals (as Pb)	0.001 %
Iron (Fe)	0.0005 %