



IODINE MONOCHLORIDE - Physical & Chemical Properties [Chlorine iodide]

CASR No.	[7790 – 99 - 0]
EC-No.	232 – 236 - 7
HS-No.	2812 – 10 - 99
Road / Rail	8 / 12 b
IMDG Code	8 / II UN 1792
IATA / DGR	8 / II UN 1792 CAO 817 PAX F
Packing-cat	D
Poison-class	(CH) 2
Merck-Index	10, 4885
Fieser	11, 268
SAX	6, 617
Mol. Formula	ICI
Mol. Weight	162.36
Specific Density, 29 °C	3.1 g / cm ³
Melting Point	26 °C
Boiling Point	97 °C
Solubility in H ₂ O, 20 °C	(Decomposition) 1.4 g per 100 ml
Atmospheric Susceptibility	Light sensitive, decomposes in air
Chemical Reaction	Corrosive

Relevant Risk, Safety & Disposal Aspects

Risk	R 34	Causes burns.
	R 37	Irritating to respiratory system.
Safety	S 26	In case contact with eyes, rinse immediately with plenty of water and seek medical assistance.
	S 36/37/39	Wear suitable protective clothing, gloves and eye/face protection.
	S 45	In case of accident or feeling un-well seek expert and medical advice immediately.
Disposal	D 12	Should first be diluted or hydrolysed by stirring carefully into ice water and neutralized by Sodium thiosulphate solution after checking pH.

Application, Storage & Packing

Application	In chemical reactions.
Storage	Store in a air tight container in a cool & dark place away from light.
Packing	In 5 kg each glass bottles in thermocol box packed inside corrugated carton.



IODINE MONOCHLORIDE - LR

Description	Dark red heavy liquid, strong odour
Assay (I / Cl ratio of the Wijs solution)	1.10 ± 0.1
Density [30 °C/ 4 °C]	~ 3.2 g / cm ³
Insoluble Matter in glacial acetic acid	0.005%