



IODOMETHANE - Physical & Chemical Properties [Methyl iodide]

CASR No.	[74 – 88 - 4]
EC-No.	200 – 819 - 5
HS-No.	2903 30 80
Road / Rail	6.1 / 15 a
IMDG Code	6.1 / I UN 2644
IATA / DGR	6.1 / 1 UN 2644 CAO F PAX F
Packing-cat	G
Poison-class	(CH) I
LD 50 oral rat	76 mg / kg
Merck-Index	10, 5958
Fieser	6, 348
SAX	6, 1620
Mol. Formula	CH ₃ I
Mol. Weight	141.94
Specific Density, 20 °C	2.28 g / cm ³
Refractive Index (20 °C, 589 nm)	1.5304
Vapour Pressure, 20 °C	500 hPa
Melting Point	-66 °C
Boiling Point	42 °C
Ignition Temp.	352 °C
Explosive Limits	8.5 – 66 vol %
Solubility in H ₂ O, 20 °C	1.4 g per 100 ml
Atmospheric Susceptibility	Light sensitive
Chemical Reaction	Toxic, Irritant, Carcinogenic

Relevant Risk, Safety & Disposal Aspects

Risk	R 21-23	Toxic by inhalation. Harmful in contact with skin.
	R 25-37	Very toxic by inhalation and in contact with skin.
	R 38-40	Limited evidence of carcinogenic effect.
	S 36	Wear suitable protective clothing.
Safety	S 37-38-45	Wear suitable gloves and in case of insufficient ventilation wear respiratory equipment. In case of accident seek expert & medical advice.
	S 39	Wear eye / face protection.
	S 45	In case of accident seek expert and medical advice.
Disposal	D 9	To a chilled chemical under water, set vigorous stirring, add ammonia solution drop wise and carefully in well ventilated / open area. Further neutralize with Sodium thiosulphate solution.

Application, Storage & Packing

Application	As Methylating agent in organic synthesis, as a catalyst, etc.
Storage	Store in a air tight container in a cool & dark place away from light.
Packing	In 12.50 Kgs x 2 Nos. Aluminium Bottle = 25 Kgs in thermocol box packed inside Corrugated Carton.



IODOMETHANE - LR

[Stabilized with Silver wire]

Description	Clear colourless heavy liquid
Assay (GC, area %)	min. 99.0 %
Density [20 °C/ 4 °C]	2.271 – 2.277 g / cm ³

Maximum Limits of Impurities

Methanol (CH ₃ OH)	0.3 %
Diiodomethane (CH ₂ I ₂)	0.1 %
Free acid (HI)	0.1 %
Water (KF)	0.1 %