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Technical Data Sheet

1-IODOPROPANE

1. Chemical Product Identification

GHS Product Identifier: 194.44, 1-Iodopropane, n-Propyl Iodide

Formula: C₃H₇I

CAS No.: 107-08-4

Formula Description: Clear, colorless to light amber liquid.

Recommended Use: 1-Iodopropane is used as an alkylating agent in solvents and other intermediates, pharmaceuticals, electronics and chemical synthesis.

General Properties:

Molecular Weight: 169.99

Specific Gravity (20°C): 1.743

Boiling Point (°C): 101-102

Freezing Point (°C): -101

Solubility: Miscible in alcohol, Slightly soluble in H₂O



2. Chemical Product Specifications

Chemical Identity	Assay (by gc)	
1-Iodopropane	98.0% minimum	Material available with or without copper stabilizer.

3. Standard Packaging

Net Weight	Packaging
70 lbs.	UN3H1 5 gal Jerrican
198.41 lbs.	UN1H1 15 gal Deldrum

400 lbs.	UN1H1 30 gal HDPE Drum
551.15 lbs.	UN6HA1 55 gal Steel Composite Drum

4. Transport Information

SHIPPING CRITERIA	US DOT	IATA
Proper Shipping Name	Iodopropanes	Iodopropanes
Hazard Class	Class 3	Class 3
Identification Number	UN 2392	UN 2392
Packing Group	PG III	PG III
Shipping Label	Flammable Liquid	Flammable Liquid
Additional Marking Requirement	Consult the 49 CFR §172 for special provisions and markings	Consult the IATA Dangerous Goods Regulations

5. Handling and Storage

Storage Conditions: Store in UN-HDPE drum or Tote. Store in a cool, dry, well-ventilated area away from incompatible substances, direct sunlight or elevated temperatures. Highly susceptible to UV light, will yellow upon exposure. Stabilize with silver wool. Keep containers tightly closed using a tamper-evident seal. Protect against physical damage. Shower and dispose of outer clothing and change to clean garments at the end of the day. Wash hands before eating and do not eat, drink or smoke in workplace. Containers of this material may be hazardous when empty since they retain product residues.

SDS with detailed information available upon request.