

# N-Propyl Iodide, 1-Iodopropane

C<sub>3</sub>H<sub>7</sub>I

CAS#107-08-4

EINECS #

Technical Data Sheet

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

**Formula:** C<sub>3</sub>H<sub>7</sub>I

**Formula Description:** Clear, colorless to light amber liquid.

**Recommended Use:** 1-Iodopropane is used as an alkylating agent in solvents<sup>1</sup> and production of other intermediates, pharmaceuticals, electronics<sup>2</sup> and chemical synthesis<sup>(3-4)</sup>.

**General Properties:**

<b>Molecular Weight</b> 169.99	<b>Specific Gravity (20°C)</b> 1.743
<b>Boiling Point (°C)</b> 101-102	<b>Freezing Point (°C)</b> -101
<b>Solubility</b> Miscible in alcohol, Slightly soluble in H <sub>2</sub> O	

Chemical Product Specifications

	<b>n-Propyl Iodide</b>
<b>Assay (by gc)</b>	98.0% minimum

*\*material available with or without copper stabilizer.*

Standard Packaging

<b>Net Weight</b>	<b>Packaging</b>
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

SDS with detailed information available upon request.

References

References

1. Syvänen, S., Eriksson, J., Genchel, T. et al. Synthesis of two potential NK1-receptor ligands using [1-11C] ethyl iodide and [1-11C]propyl iodide and initial PET-imaging. BMC Med Imaging 7, 6 (2007)
2. Chemistry of 1-iodopropane on copper(110): formation, bonding, and reactions of adsorbed propyl groups, Cynthia J. Jenks, Brian E. Bent, Neal Bernstein, and Francisco Zaera, Journal of the American Chemical Society 1993 115 (1), 308-314

3. G.A. Crowder, Syed Ali, Vibrational analysis of 1-iodopropane, 1-iodobutane and 1,3-diiodopropane, Journal of Molecular Structure, Volume 25, Issue 2, 1975, Pages 377-386
4. Park, S., Kim, S. & Kim, M. Observation of conformation-specific pathways in the photodissociation of 1-iodopropane ions. Nature 415, 306–308 (2002)

