

C₄H₉I

CAS#542-69-8

EINECS #

Technical Data Sheet

GHS Product Identifier: 196.44, n-Butyl Iodide, 1-Iodobutane.

Formula: C₄H₉I

Formula Description: Colorless to amber liquid.

Recommended Use: 1-Iodobutane is used as an alkylating agent and as a solvent for organic synthesis ¹ Used in the electronics industry as a subsurface preparation ² In the field of catalysis it is used as a surface iodination agent⁴.

General Properties:

Molecular Weight	184.02	Specific Gravity (20°C)	1.617
Boiling Point (°C)	130-131	Solubility	Insoluble in H₂O; Soluble Alcohol, Ether,

Chemical Product Specifications

	n-Butyl Iodide
Assay (by gc)	98.0% minimum

**material available with or without copper stabilizer*

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

SDS with detailed information available upon request.

References

1. Density of 1-Iodopropane and 1-Iodobutane within the Temperature Range from (253.15 to 383.15) K Mikhail F. Bolotnikov*, Yuriy A. Neruchev, and, and Olga S. Ryschkova, Journal of Chemical & Engineering Data 2007 52 (3), 1146-1147
2. The Chemistry of Alkyl Iodides on Copper Surfaces. 2. Influence of Surface Structure on Reactivity, Cynthia J. Jenks‡ and, Brian E. Bent§, and Francisco Zaera*, The Journal of Physical Chemistry B 2000 104 (14), 3017-3027
3. Triphase catalysis. Applications to organic synthesis Steven L. Regen, The Journal of Organic Chemistry 1977 42 (5), 875-879

4. Iya V. Mishakov, David S. Heroux, Vladimir V. Chesnokov, Sergey G. Koscheev, Maxim S. Mel'gunov, Alexander F. Bedilo, Roman A. Buyanov, Kenneth J. Klabunde, Reaction of nanocrystalline MgO with 1-iodobutane,
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