



>>Entry Name: 1-Iodobutane, 9CI

ENTRY UNDER REVIEW

Synonym(s): Butyl iodide

CAS Registry Number: 542-69-8

$\text{H}_3\text{CCH}_2\text{CH}_2\text{CH}_2\text{I}$

Molecular Formula: $\text{C}_4\text{H}_9\text{I}$

Molecular Weight: 184.02

Accurate Mass: 183.974898

Percentage Composition: C 26.11%; H 4.93%; I 68.96%

Biological Source: Isol. from several marine algae

Use/Importance: Used to esterify fatty acids for gc anal.

Physical Description: Liq.

Melting Point: Fp -103°

Boiling Point: Bp $130.4-131^\circ$

Density: d_4^{20} 1.6166

Hazard & Toxicity: Flammable, fl. p. 36° . LD₅₀ (rat, ipr) 692 mg/kg. Exp. neoplastic agent

Aldrich: 16730-4

Fluka: 20030

References:

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Boschi, R.A. *et al.*, *Mol. Phys.*, 1972, **24**, 289, (uv)

Greeley, R.H., *J. Chromatogr.*, 1974, **88**, 229, (use)

Ikuta, S. *et al.*, *Bull. Chem. Soc. Jpn.*, 1976, **49**, 66, (ms)

Miyano, S. *et al.*, *Nippon Kagaku Kaishi*, 1977, 138, (synth)

Eweiss, N.F. *et al.*, *Synthesis*, 1977, 634, (synth)

Hsiu, S.L. *et al.*, *Chem. Pharm. Bull.*, 1984, **32**, 2091, (cmr, pmr)

Gribble, G.W. *et al.*, *Prog. Chem. Org. Nat. Prod.*, 1996, **68**, 1, (occur)

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