



>>Entry Name: **Dibutyl ether**

Synonym(s): 1,1'-Oxybisbutane, 9CI. Dibutyl oxide. Butyl ether

CAS Registry Number: 142-96-1

H3CCH2CH2CH2OCH2CH2CH2CH3

Molecular Formula: C₈H₁₈O

Molecular Weight: 130.23

Accurate Mass: 130.135765

Percentage Composition: C 73.78%; H 13.93%; O 12.29%

Melting Point: Mp -98°

Boiling Point: Bp 142°

Density: d₄⁰ 0.784

Refractive Index: n_D²⁰ 1.3990

Hazard & Toxicity: Flammable, fl. p. 25°, autoignition temp. 185/194°. Exp. skin and human eye irritant. Adverse eye and nasal effects by inhalation. Forms explosive peroxide

Aldrich: 11028-0

Fluka: 34470

References:

Aldrich Library of 13C and 1H FT NMR Spectra, 1992, **1**, 318C, (nmr)

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **1**, 204C, (ir)

Aldrich Library of FT-IR Spectra: Vapor Phase, 1989, **3**, 266C, (ir)

Senderens, J.B., *C. R. Hebd. Seances Acad. Sci.*, 1925, **181**, 698, (synth)

Hennion, G.F. *et al.*, *CA*, 1933, **27**, 5716, (synth)

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., Van Nostrand Reinhold, 1992, BRH750

Bretherick, L., *Handbook of Reactive Chemical Hazards*, 4th edn., Butterworths, 1990, 2876

Luxon, S.G., *Hazards in the Chemical Laboratory*, 5th edn., Royal Society of Chemistry, 1992, 402

Patty's Ind. Hyg. Toxicol., 4th edn., Vol. 2, Wiley, 1993, 468