



>>Entry Name: Diethyl sulfite, 9CI

Synonym(s): Ethyl sulfite

CAS Registry Number: 623-81-4
(EtO)₂SO

Molecular Formula: C₄H₁₀O₃S

Molecular Weight: 138.187

Accurate Mass: 138.035065

Percentage Composition: C 34.77%; H 7.29%; O 34.73%; S 23.20%

Boiling Point: Bp 158°. Bp₁₃ 51°

Density: d₀⁰ 1.105

Refractive Index: n_D²⁰ 1.4144

Hazard & Toxicity: Flammable, fl. p. 49°

Aldrich: 22624-6

Fluka: 32535

References:

Aldrich Library of 13C and 1H FT NMR Spectra, 1992, **1**, 1426A, (*nmr*)

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **1**, 884D, (*ir*)

Aldrich Library of FT-IR Spectra: Vapor Phase, 1989, **3**, 833A, (*ir*)

Voss, W. *et al.*, *Annalen*, 1931, **485**, 273, (*synth*)

Carpanelli, C. *et al.*, *CA*, 1961, **55**, 2541, (*synth*)

Hasegawa, S. *et al.*, *J.C.S. Perkin 1*, 1976, 108, (*synth*)

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials, 8th edn.*, Van Nostrand Reinhold, 1992, DKB119

Bretherick, L., *Handbook of Reactive Chemical Hazards, 4th edn.*, Butterworths, 1990, 1604