



>>Entry Name: Ethyl methyl sulfide

ENTRY UNDER REVIEW

Synonym(s): (Methylthio)ethane, 9Cl

CAS Registry Number: 624-89-5

EtSMe

Molecular Formula: C₃H₈S

Molecular Weight: 76.162

Accurate Mass: 76.03467

Percentage Composition: C 47.31%; H 10.59%; S 42.10%

Melting Point: Fp -104.8°

Boiling Point: Bp 66.9°

Hazard & Toxicity: Highly flammable, fl. p. <21°/-15°

Aldrich: 23831-7

Fluka: 4490

>>Derivative: S-Oxide

see Ethyl methyl sulfoxide, [CVS50-L](#)

>>Derivative: S,S-Dioxide

Synonym(s): (Methylsulfonyl)ethane, 9Cl. Ethyl methyl sulfone, 8Cl

CAS Registry Number: 594-43-4

Molecular Formula: C₃H₈O₂S

Molecular Weight: 108.161

Accurate Mass: 108.0245

Percentage Composition: C 33.31%; H 7.45%; O 29.58%; S 29.65%

Physical Description: Needles (Et₂O)

Melting Point: Mp 36°

Solubility: Sol. H₂O, EtOH, spar. sol. Et₂O

References:

Aldrich Library of 13C and 1H FT NMR Spectra, 1992, **1**, 426C, (*nmr*)

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **1**, 265C, (*ir*)

Aldrich Library of FT-IR Spectra: Vapor Phase, 1989, **3**, 348B, (*ir*)

Beckmann, E.O., *J. Prakt. Chem.*, 1878, **17**, 439, (*dioxide*)

Klason, P., *Ber.*, 1887, **20**, 3413, (*synth*)

Brozozowski, Z., *Pol. J. Chem. (Rocz. Chem.)*, 1963, **37**, 1069; *CA*, **60**, 5323, (*synth*)

Ohsaka, M. *et al.*, *J. Mol. Sci. (Int. Ed)*, 1977, **42**, 31, (*ir*)

Moesch, C. *et al.*, *Ann. Pharm. Fr.*, 1992, **49**, 286, (*synth*)

Eberlin, M.N. *et al.*, *J.A.C.S.*, 1992, **114**, 2884, (*ms*)