



>>Entry Name: Diethyl sulfone

Synonym(s): 1,1'-Sulfonylbisethane, 9CI

CAS Registry Number: 597-35-3

EtSO₂Et

Molecular Formula: C₄H₁₀O₂S

Molecular Weight: 122.188

Accurate Mass: 122.04015

Percentage Composition: C 39.32%; H 8.25%; O 26.19%; S 26.24%

Physical Description: Cryst. (C₆H₆), plates

Melting Point: Mp 73-74°

Boiling Point: Bp 248°

Solubility: Sol. H₂O, insol. Et₂O

Aldrich: 24246-2

References:

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Boehme, H. *et al.*, *Chem.-Ztg.*, 1972, **96**, 37, (*synth*)

Engberts, J.B.F.N. *et al.*, *Can. J. Chem.*, 1973, **51**, 1187, (*pmr*)

Brandes, D. *et al.*, *J. Organomet. Chem.*, 1974, **73**, 217, (*synth*)

Fawcett, A.H. *et al.*, *Org. Magn. Reson.*, 1978, **11**, 360, (*cmr*)

Fong, H.O. *et al.*, *Can. J. Chem.*, 1979, **57**, 1206, (*synth*)

Khvostenko, V.I. *et al.*, *Izv. Akad. Nauk SSSR, Ser. Khim.*, 1984, 1653; *Bull. Acad. Sci. USSR, Div. Chem. Sci. (Engl. Transl.)*, 1984, 1517, (*ms*)