



>>Entry Name: Diphenyl sulfoxide

Synonym(s): 1,1-Sulfinylbisbenzene, 9Cl. Benzene sulfoxide

CAS Registry Number: 945-51-7

PhSOPh

Molecular Formula: C₁₂H₁₀OS

Molecular Weight: 202.276

Accurate Mass: 202.045235

Percentage Composition: C 71.25%; H 4.98%; O 7.91%; S 15.85%

Physical Description: Prisms

Melting Point: Mp 70.5°

Boiling Point: Bp₁₅ 210°

Hazard & Toxicity: LD₅₀ (mus, ipr) 750 mg/kg

Aldrich: P3540-5

Fluka: 43335

References:

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Fieser and Fieser's Reagents for Organic Synthesis, Wiley, 1967, **1**, 348; 1981, **9**, 396

Barbieri, G. *et al.*, *J.C.S.(C)*, 1968, 659, (synth)

Harville, R. *et al.*, *J.O.C.*, 1968, **33**, 3976, (synth)

Gregory, D.C. *et al.*, *J. Mol. Struct.*, 1979, **51**, 69, (struct)

Numata, T. *et al.*, *Synthesis*, 1981, 204, (synth)

Dai, L.-X. *et al.*, *Synth. Commun.*, 1994, **24**, 2229, (synth, ir, pmr)

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