



>>Entry Name: Diphenyl sulfide

Synonym(s): 1,1'-Thiobisbenzene, 9Cl. Phenyl sulfide, 8Cl. Thiophenol phenyl ether. Diphenyl thioether

CAS Registry Number: 139-66-2

Type of Compound Code(s): PA3150
PhSPh

Molecular Formula: C₁₂H₁₀S

Molecular Weight: 186.277

Accurate Mass: 186.05032

Percentage Composition: C 77.38%; H 5.41%; S 17.21%

Use/Importance: Used as a 3% soln. in C₆H₆ for detn. of Pd

Physical Description: Cryst.

Boiling Point: Bp₁₈ 162-163°

Solubility: Sol. common org. solvs.

Density: d₄²⁰ 1.113

Hazard & Toxicity: Flammable, fl. p. 29°. Eye irritant. LD₅₀ (rat, orl) 490 mg/kg

Aldrich: P3531-6

Fluka: 43320

>>Derivative: S-Oxide

see Diphenyl sulfoxide, [DSS99-W](#)

>>Derivative: S,S-Dioxide

see Diphenyl sulfone, [DST00-R](#)

References:

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