



>>Entry Name: Trimethyl(phenylthio)silane, 9CI

Synonym(s): Phenylthiotrimethylsilane. Phenyl trimethylsilyl sulfide. S-(Trimethylsilyl)thiophenol

CAS Registry Number: 4551-15-9

PhSSiMe₃

Molecular Formula: C₉H₁₄SSi

Molecular Weight: 182.361

Accurate Mass: 182.058547

Percentage Composition: C 59.28%; H 7.74%; S 17.58%; Si 15.40%

Source/Synthesis: Synth. from PhSH + (Me₃Si)₂NH

Use/Importance: Commercially available; with ZnI₂ cleaves methyl, benzyl ethers; used in synth. of di- and tri-sulfides

Physical Description: Moisture-sensitive liq.

Boiling Point: Bp₃ 72-74°

Refractive Index: n_D²⁰ 1.5320

Aldrich: 22646-7

Fluka: 79222

References:

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **2**, 1121D, (*ir*)

Aldrich Library of FT-IR Spectra: Vapor Phase, 1989, **3**, 1669C, (*ir*)

Ojima, I. *et al.*, *J. Organomet. Chem.*, 1973, **50**, C26, (*synth*)

Glass, R.S., *J. Organomet. Chem.*, 1973, **61**, 83, (*synth, pmr*)

Distefano, G. *et al.*, *J. Organomet. Chem.*, 1974, **65**, 205, (*ms*)

Hanessian, S. *et al.*, *Carbohydr. Res.*, 1980, **86**, C3, (*use*)

Hanessian, S. *et al.*, *Tet. Lett.*, 1980, **21**, 2305, (*use, ether cleavage*)

Fieser and Fieser's Reagents for Organic Synthesis, Wiley, 1982, **10**, 426; 1986, **12**, 535, (*synth, use*)

Capozzi, G. *et al.*, *Gazz. Chim. Ital.*, 1990, **120**, 421, (*use*)

Soga, T. *et al.*, *Bull. Chem. Soc. Jpn.*, 1991, **64**, 1108, (*use*)