



>>Entry Name: Mercaptotriphenylsilane

Synonym(s): Triphenylsilanethiol, 9CI

CAS Registry Number: 14606-42-9

Ph₃SiSH

Molecular Formula: C₁₈H₁₆SSi

Molecular Weight: 292.476

Accurate Mass: 292.074197

Percentage Composition: C 73.92%; H 5.51%; S 10.96%; Si 9.60%

Source/Synthesis: Synth. from Ph₃SiH and S₈

Use/Importance: Commercially available

Physical Description: Cryst.

Melting Point: Mp 103°

Boiling Point: Bp_{0.06} 152-158°

Aldrich: 42215-0

Fluka: 93132

Sigma: T6925

References:

Etienne, Y., *Bull. Soc. Chim. Fr.*, 1953, 791, (*synth*)

Birkofer, L. *et al.*, *Chem. Ber.*, 1963, **96**, 3289, (*synth*)

Salinger, R.M. *et al.*, *J. Organomet. Chem.*, 1968, **11**, 631, (*ir*)

Schott, G. *et al.*, *Z. Anorg. Allg. Chem.*, 1977, **430**, 271, (*acidity*)

Minkwitz, R. *et al.*, *Z. Anorg. Allg. Chem.*, 1993, **619**, 877, (*cryst struct*)