



>>Entry Name: Chlorophenylsilane, 9Cl

Synonym(s): Phenylchlorosilane

CAS Registry Number: 4206-75-1

PhSiClH₂

Molecular Formula: C₆H₇ClSi

Molecular Weight: 142.66

Accurate Mass: 142.000554

Percentage Composition: C 50.52%; H 4.95%; Cl 24.85%; Si 19.69%

Source/Synthesis: Synth. from PhSiH₃ + PCl₅ in CCl₄

Physical Description: Liq.

Boiling Point: Bp 162-163°

Density: d₄²⁰ 1.068

Refractive Index: n_D²⁰ 1.5354

References:

Fritz, G. *et al.*, *Chem. Ber.*, 1961, **94**, 1143, (*synth*)

Nagai, Y. *et al.*, *Bull. Chem. Soc. Jpn.*, 1967, **40**, 2214, (*synth*)

Jensen, M.A., *J. Organomet. Chem.*, 1968, **11**, 423, (*pmr*)

Mawaziny, S., *J.C.S.(A)*, 1970, 1641, (*synth*)

Coutant, J.E. *et al.*, *Arch. Mass Spectral Data*, 1971, **2**, 542, (*ms*)

Egorochkin, A.N. *et al.*, *Izv. Akad. Nauk SSSR, Ser. Khim.*, 1971, 776; *CA*, **75**, 55931h, (*ir*)