



>>Entry Name: Chloromethyldiphenylsilane, 9CI

Synonym(s): Chlorodiphenylmethylsilane

CAS Registry Number: 144-79-6

Ph₂MeSiCl

Molecular Formula: C₁₃H₁₃ClSi

Molecular Weight: 232.784

Accurate Mass: 232.047504

Percentage Composition: C 67.08%; H 5.63%; Cl 15.23%; Si 12.07%

Source/Synthesis: Synth. from PhMeSiCl₂ and PhMgBr

Use/Importance: Commercially available silylating agent for enolates; C-silylates Li enolates and lactones in THF, O-silylates with HMPT; reacts with α-anion of esters → α-silyl ester → 1-alkene by reductive Peterson elimination

Physical Description: Moisture-sensitive liq.

Boiling Point: Bp 295°. Bp₁ 114°

Density: d₄²⁰ 1.128111

Refractive Index: n_D²⁰ 1.5740

Aldrich: 10476-0

Fluka: 43120

References:

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **2**, 1123B, (*ir*)

Aldrich Library of FT-IR Spectra: Vapor Phase, 1989, **3**, 1666B, (*ir*)

Harvey, M.C. *et al.*, *Appl. Spectrosc.*, 1962, **16**, 12, (*ir*)

Tacke, R. *et al.*, *Monatsh. Chem.*, 1975, **106**, 1005, (*synth, ir, pmr, ms*)

Olah, G. *et al.*, *J.A.C.S.*, 1980, **102**, 6989, (*Si-29 nmr, cmr*)

Larson, G.L. *et al.*, *J.A.C.S.*, 1981, **103**, 2418, (*use, silylation of enolates*)

Lycka, A. *et al.*, *Coll. Czech. Chem. Comm.*, 1982, **47**, 603, (*Si-29 nmr, cmr*)

Fieser and Fieser's Reagents for Organic Synthesis, Wiley, 1982, **10**, 91, (*use*)

Cruz de Maldonado, V. *et al.*, *Synth. Commun.*, 1983, **13**, 1163, (*use, silylation of esters*)