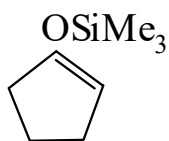




>>Entry Name: 1-Trimethylsilyloxycyclopentene

Synonym(s): (1-Cyclopenten-1-yloxy)trimethylsilane, 9Cl, 8Cl



CAS Registry Number: 19980-43-9

Molecular Formula: C₈H₁₆OSi

Molecular Weight: 156.299

Accurate Mass: 156.097042

Percentage Composition: C 61.48%; H 10.32%; O 10.24%; Si 17.97%

Source/Synthesis: Synth. from cyclopentanone, Me₃SiCl and Et₃N

Use/Importance: Versatile synthetic intermed.

Physical Description: Colourless liq.

Boiling Point: Bp 158-159°. Bp₁₂ 74°

Density: d₄²⁰ 0.878

Refractive Index: n_D²⁰ 1.4400

Aldrich: 28312-6

Fluka: 92740

References:

Aldrich Library of 13C and 1H FT NMR Spectra, 1992, **3**, 661C, (*nmr*)

Aldrich Library of FT-IR Spectra: Vapor Phase, 1989, **3**, 1642B, (*ir*)

House, H.O. *et al.*, *J.O.C.*, 1969, **34**, 2324, (*synth, pmr, ms*)

Colvin, E.W., *Chem. Soc. Rev.*, 1978, **7**, 15, (*rev*)

Olah, G.A. *et al.*, *J.O.C.*, 1979, **44**, 4272, (*synth*)

Fleming, I., *Chimia*, 1980, **34**, 265, (*rev*)

Org. Synth., 1984, **62**, 95, (*ir, pmr, synth*)

Mukai, C. *et al.*, *Tet. Lett.*, 1989, **30**, 7435, (*use*)

Baba, T. *et al.*, *J.C.S. Perkin 2*, 1990, 1113, (*use*)

Chen, K. *et al.*, *J.O.C.*, 1991, **56**, 5761, (*use*)

Reddy, D.R. *et al.*, *Chem. Comm.*, 1992, 172, (*use*)