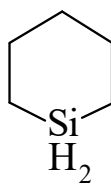




>>Entry Name: Silacyclohexane, 9CI

Synonym(s): Perhydrosilin



CAS Registry Number: 6576-79-0

Molecular Formula: C₅H₁₂Si

Molecular Weight: 100.235

Accurate Mass: 100.070827

Percentage Composition: C 59.91%; H 12.07%; Si 28.02%

Source/Synthesis: Synth. from 1,1-Dichlorosilacyclohexane [FJP72-F](#) + LiAlH₄

Physical Description: Liq.

Boiling Point: Bp 101-102°

Density: d₄²⁰0.819

>>Derivative: 1-Me

Synonym(s): 1-Methyl-1-silacyclohexane

CAS Registry Number: 765-62-8

Molecular Formula: C₆H₁₄Si

Molecular Weight: 114.262

Accurate Mass: 114.086477

Percentage Composition: C 63.07%; H 12.35%; Si 24.58%

Physical Description: Liq.

Boiling Point: Bp 118°

Density: d₄²⁵0.809

>>Derivative: 1,1-Di-Me

Synonym(s): 1,1-Dimethyl-1-silacyclohexane

CAS Registry Number: 4040-74-8

Molecular Formula: C₇H₁₆Si

Molecular Weight: 128.289

Accurate Mass: 128.102127

Percentage Composition: C 65.54%; H 12.57%; Si 21.89%

Physical Description: Liq.

Density: d₄²⁰0.804. d₄²⁵0.818

Rare Chemicals Library: S58498-3

References:

West, R., *J.A.C.S.*, 1954, **76**, 6012, (*synth*)

Yur'ev, Yu.K. *et al.*, *Dokl. Akad. Nauk SSSR, Ser. Khim.*, 1959, **128**, 121; *CA*, **54**, 1521g, (*synth*)

Swisher, J.V. *et al.*, *J. Organomet. Chem.*, 1974, **69**, 83, (*pmr*)

Washburne, S.S. *et al.*, *J. Organomet. Chem.*, 1974, **81**, 41, (*ms*)