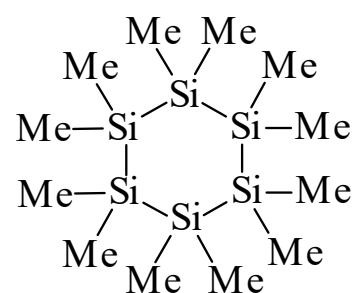




>>Entry Name: Dodecamethylcyclohexasilane, 9CI



CAS Registry Number: 4098-30-0

Type of Compound Code(s): BB0266

Molecular Formula: C₁₂H₃₆Si₆

Molecular Weight: 348.929

Accurate Mass: 348.143262

Percentage Composition: C 41.31%; H 10.40%; Si 48.29%

Source/Synthesis: Major product in reaction between Me₂SiCl₂ and Na/K alloy in THF

Use/Importance: Reagent for the conversion of carbonyl compds. to silyl enol ethers; source of Me₂Si: on photol. Intermed. for other cyclic and linear polysilanes

Physical Description: Air-stable colourless cryst. (EtOH/THF)

Melting Point: Mp 248-252°. Mp 254-257° (sealed tube)

Solubility: Sol. THF, hexane, most org. solvs.

Other Data: Cryst. transformations and sintering occur below Mp. Subl. *in vacuo* at mod. temps.

Aldrich: 43749-2

References:

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Brough, L.F. *et al.*, *J.A.C.S.*, 1981, **103**, 3049, (*synth, ir, ms, cmr, pmr, Raman, uv*)

Chen, S.-M. *et al.*, *Synthesis*, 1985, 684, (*synth*)

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