



>>Entry Name: Chlorotris(dimethylamino)silane

Synonym(s): 1-Chloro-*N,N,N',N',N'',N''*-hexamethylsilanetriamine, 9Cl

CAS Registry Number: 13307-05-6

ClSi(NMe₂)₃

Molecular Formula: C₆H₁₈ClN₃Si

Molecular Weight: 195.767

Accurate Mass: 195.095851

Percentage Composition: C 36.81%; H 9.27%; Cl 18.11%; N 21.46%; Si 14.35%

Source/Synthesis: Synth. from SiCl₄ + Me₂NH

Melting Point: Mp 2-4°

Boiling Point: Bp₁₂ 62-63°

Density: d²⁰ 0.97

Refractive Index: n_D²⁰ 1.4423

References:

Breederveld, H. *et al.*, *Research (London)*, 1952, **5**, 537-539; *CA*, **47**, 3169g, (*synth*)

Buerger, H. *et al.*, *Inorg. Nucl. Chem. Lett.*, 1966, **2**, 209, (*ir, Raman*)

Vilkov, L.V. *et al.*, *Chem. Comm.*, 1969, 1176-1177, (*gas-phase struct*)