



>>Entry Name: (Aminomethyl)trimethylsilane

Synonym(s): 1-(Trimethylsilyl)methanamine, 9CI

CAS Registry Number: 18166-02-4

$\text{Me}_3\text{SiCH}_2\text{NH}_2$

Molecular Formula: $\text{C}_4\text{H}_{13}\text{NSi}$

Molecular Weight: 103.239

Accurate Mass: 103.081726

Percentage Composition: C 46.54%; H 12.69%; N 13.57%; Si 27.20%

Source/Synthesis: Synth. from (Chloromethyl)trimethylsilane [GGG61-Y](#) + NH_3 , or by LiAlH_4 redn. of (Azidomethyl)trimethylsilane [FKK08-Y](#)

Physical Description: Liq.

Boiling Point: Bp 93-94°

Fluka: 92768

>>Derivative: Hydrochloride

CAS Registry Number: 18166-01-3

Molecular Formula: $\text{C}_4\text{H}_{15}\text{ClNSi}$

Molecular Weight: 140.707

Accurate Mass: 140.066228

Percentage Composition: C 34.14%; H 10.74%; Cl 25.20%; N 9.95%; Si 19.96%

Physical Description: Cryst. (2-propanol/ Et_2O)

Melting Point: Mp 245-246°

References:

Noll, J.E. *et al.*, *J.A.C.S.*, 1951, **73**, 3867, (*synth*)

Fessenden, R.J. *et al.*, *J.O.C.*, 1962, **27**, 1485, (*synth*)

Schraml, J. *et al.*, *Org. Magn. Reson.*, 1975, **7**, 379, (*pmr, cmr, N-14 nmr, Si-29 nmr*)

Letellier, M. *et al.*, *Synth. Commun.*, 1988, **18**, 1975, (*synth*)