



>>Entry Name: (Dimethylamino)trimethylsilane

Synonym(s): Pentamethylsilanamine, 9Cl. *N*-Trimethylsilyldimethylamine

CAS Registry Number: 2083-91-2

$\text{Me}_3\text{SiNMe}_2$

Molecular Formula: $\text{C}_5\text{H}_{15}\text{NSi}$

Molecular Weight: 117.266

Accurate Mass: 117.097376

Percentage Composition: C 51.21%; H 12.89%; N 11.94%; Si 23.95%

Source/Synthesis: Synth. from Me_3SiCl + NHMe_2

Use/Importance: Silylation reagent for amino acids for gc anal.

Physical Description: Liq.

Boiling Point: Bp 85°

Density: d_4^{20} 0.74

Refractive Index: n_D^{20} 1.3958

Aldrich: 22628-9

Fluka: 41720

Sigma: D5151

References:

Ebsworth, E.A.V. *et al.*, *J. Chromatogr. Sci.*, 1958, 2150, (synth)

Jarvie, A.W. *et al.*, *J.C.S.*, 1963, 1073, (synth)

Mack, J. *et al.*, *Inorg. Chem.*, 1969, **8**, 278, (ir, cmr)

Smith, E.D. *et al.*, *J. Chromatogr. Sci.*, 1969, **7**, 704, (use)

Nöth, H. *et al.*, *Chem. Ber.*, 1974, **107**, 518, (N-14 nmr)

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., Van Nostrand Reinhold, 1992, DQE900

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **2**, 1111B, (ir)

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