



>>Entry Name: Bis(dimethylsilyl)amine

Synonym(s): *N*-(Dimethylsilyl)-1,1-dimethylsilanamine, 9Cl. 1,1,3,3-Tetramethyldisilazane, 8Cl

CAS Registry Number: 15933-59-2

$(\text{Me}_2\text{SiH})_2\text{NH}$

Molecular Formula: $\text{C}_4\text{H}_{15}\text{NSi}_2$

Molecular Weight: 133.34

Accurate Mass: 133.074303

Percentage Composition: C 36.03%; H 11.34%; N 10.50%; Si 42.13%

Source/Synthesis: Synth. from $\text{SiMe}_2\text{HCl} + \text{NH}_3$

Use/Importance: Silylation reagent for use in gc anal. of alcohols, steroids and cannabinoids

Physical Description: Liq.

Boiling Point: Bp 99-100°

Aldrich: 13924-6

Fluka: 87830

References:

Aldrich Library of ^{13}C and ^1H FT NMR Spectra, 1992, **3**, 681A, (*nmr*)

Aldrich Library of Infrared Spectra, 3rd edn., 1981, 1542C, (*ir*)

Kriegsmann, H. *et al.*, *Z. Anorg. Allg. Chem.*, 1961, **310**, 100; 320, (*synth, ir, Raman*)

Supina, W. *et al.*, *J. Am. Oil Chem. Soc.*, 1967, **44**, 74, (*use*)

Vanden Heuval, W.J.A., *J. Chromatogr.*, 1967, **27**, 85, (*use*)

Andrianov, K.A. *et al.*, *Zh. Obshch. Khim.*, 1969, **39**, 2513; *CA*, **72**, 87436, (*pmr*)

Williams, E.A. *et al.*, *J. Organomet. Chem.*, 1976, **108**, 153, (*^{29}Si nmr*)

Harvey, D.J., *J. Chromatogr.*, 1978, **147**, 291, (*use*)

Gundersen, G. *et al.*, *Acta Chem. Scand., Ser. A*, 1984, **38**, 647, (*gas-phase struct*)