



>>Entry Name: *N*-(Trimethylsilyl)acetamide, 9CI

CAS Registry Number: 13435-12-6

Me₃SiNHAc

Molecular Formula: C₅H₁₃NOSi

Molecular Weight: 131.249

Accurate Mass: 131.076641

Percentage Composition: C 45.76%; H 9.98%; N 10.67%; O 12.19%; Si 21.40%

Source/Synthesis: Synth. from Me₃SiCl + NH₂Ac

Use/Importance: Derivatisation reagent for ascorbic acid for gc anal.; silylates alcohols under v. mild conditions

Physical Description: Solid

Melting Point: Mp 52-54°

Boiling Point: Bp₁₈ 84°

Aldrich: 22329-8

Fluka: 92745

Rare Chemicals Library: S61241-3

Sigma: T8010

References:

Aldrich Library of 13C and 1H FT NMR Spectra, 1992, **3**, 692B, (*nmr*)

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **2**, 1116D, (*ir*)

Aldrich Library of FT-IR Spectra: Vapor Phase, 1989, **3**, 1661A, (*ir*)

Birkhofer, L. *et al.*, *Chem. Ber.*, 1963, **96**, 1473; 1964, **97**, 2196, (*synth, use*)

Fieser and Fieser's Reagents for Organic Synthesis, Wiley, 1967, **1**, 1235

Vecchi, M. *et al.*, *J. Chromatogr.*, 1967, **26**, 22, (*use*)

Kormoriya, A. *et al.*, *J.A.C.S.*, 1972, **94**, 5285, (*pmr*)

Cooper, B.E., *Chem. Ind. (London)*, 1978, 794, (*rev*)

Pudovik, M.A. *et al.*, *Zh. Obshch. Khim.*, 1978, **48**, 2648; *CA*, **90**, 152297, (*synth*)

Bassindale, A.R. *et al.*, *J. Organomet. Chem.*, 1979, **175**, 273, (*N-14 nmr, Si-29 nmr*)

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials, 8th edn.*, Van Nostrand Reinhold, 1992, TME750