



>>Entry Name: Trimethylsilyl 2,2,2-trifluoro-*N*-(trimethylsilyl)ethanimidate

Synonym(s): Trimethylsilyl 2,2,2-trifluoro-*N*-(trimethylsilyl)acetamidate, 8Cl. 2,2,2-Trifluoro-*N*-(trimethylsilyl)ethanimidic acid trimethylsilyl ester

CAS Registry Number: 25561-30-2

$\text{Me}_3\text{SiN}=\text{C}(\text{CF}_3)\text{OSiMe}_3$

Molecular Formula: $\text{C}_8\text{H}_{18}\text{F}_3\text{NOSi}_2$

Molecular Weight: 257.402

Accurate Mass: 257.087902

Percentage Composition: C 37.33%; H 7.05%; F 22.14%; N 5.44%; O 6.22%; Si 21.82%

Source/Synthesis: Synth. from $\text{F}_3\text{CC}(\text{O})\text{NH}_2 + \text{Me}_3\text{SiCl} + \text{Et}_3\text{N}$

Use/Importance: Commercially available silylating agent, esp. for preparing derivs. of amino acids for glc

Physical Description: Moisture-sensitive liq.

Melting Point: Mp -41°

Boiling Point: Bp₁₄ 47-50°. Bp 142°

Density: d_4^{20} 0.97

Aldrich: 15519-5

Fluka: 15238

Sigma: T5634

Supelco: R40-2070

References:

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

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **2**, 1097C, (*ir*)

Aldrich Library of FT-IR Spectra: Vapor Phase, 1989, **3**, 1662A, (*ir*)

Stalling, D.L. *et al.*, *Biochem. Biophys. Res. Commun.*, 1968, **31**, 616, (*synth*)

Von Halasz, S.P. *et al.*, *Chem. Ber.*, 1970, **103**, 553, (*synth*)

Yoder, C.H. *et al.*, *J.A.C.S.*, 1974, **96**, 4283, (*struct*)

Lidy, W. *et al.*, *Chem. Ber.*, 1976, **109**, 2542, (*synth, pmr, ms, ir*)

Schraml, J. *et al.*, *Coll. Czech. Chem. Comm.*, 1977, **42**, 1165, (*Si-29 nmr*)

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