



>>Entry Name: Fluorotrimethylsilane, 9CI

Synonym(s): Trimethylsilyl fluoride

CAS Registry Number: 420-56-4

Me₃SiF

Molecular Formula: C₃H₉FSi

Molecular Weight: 92.188

Accurate Mass: 92.045755

Percentage Composition: C 39.09%; H 9.84%; F 20.61%; Si 30.47%

Source/Synthesis: Synth. from SiMe₃H + [Ph₃C]BF₄

Use/Importance: Commercially available

Physical Description: Moisture-sensitive gas or liq.

Melting Point: Mp -74°

Boiling Point: Bp 16-17°

Aldrich: 36453-3

References:

Marans, N.S. *et al.*, *J.A.C.S.*, 1951, **73**, 5127, (*synth*)

Mueller, R. *et al.*, *Z. Anorg. Allg. Chem.*, 1963, **324**, 78, (*synth*)

Voronkov, M. *et al.*, *CA*, 1964, **61**, 12027, (*synth*)

Dathe, C. *et al.*, *Chem. Ber.*, 1966, **99**, 1614, (*synth*)

Dathe, C. *et al.*, *Z. Chem.*, 1968, **8**, 258, (*synth*)

Harris, R.K. *et al.*, *J. Magn. Reson.*, 1975, **17**, 174, (*cmr, Si-29 nmr*)

Bulkowski, J.E. *et al.*, *J. Organomet. Chem.*, 1975, **87**, 137, (*synth*)

Roschenthaler, G.-V. *et al.*, *Z. Anorg. Allg. Chem.*, 1975, **416**, 289, (*synth*)

Roschenthaler, G.-V. *et al.*, *Chem. Ber.*, 1978, **111**, 3105, (*synth*)