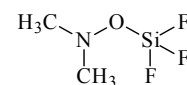
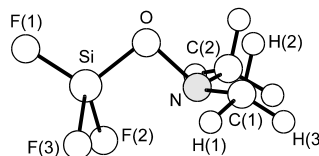


300 C₂H₆F₃NOSiED, *ab initio* and DFT calculations***N*-Methyl-*N*-[(trifluorosilyl)oxy]methanamine***N,N*-Dimethyl-*O*-trifluorosilylhydroxylamine**C_s assumed**

r_{α}	Å ^{a)}	θ_{α}	deg ^{a)}
Si–F(1) ^{b)}	1.566(4)	O–Si–F(1) ^{b)}	104.1(10)
Si–F(2,3) ^{b) c)}	1.564(2)	Si–O–N	94.3(9)
Si–O ^{c)}	1.618(8)	O–N–C ^{c)}	107.1(6)
O–N ^{c)}	1.478(7)	C–N–C ^{c)}	114.1(9)
N–C ^{c)}	1.453(4)	O–Si–F(2,3) ^{b)}	111.8(10)
C(1)–H(1) ^{b)}	1.108(7)	N–C(1)–H(1) ^{b)}	107.6(8) ^{d)}
C(1)–H(2) ^{b)}	1.111(8)	N–C(1)–H(2) ^{b)}	106.0(9)
C(1)–H(3) ^{b)}	1.117(8)	N–C(1)–H(3) ^{b)}	109.9(9)
		C–N–C–H(1) ^{b)}	–171.4(59)
		C–N–C–H(2) ^{b)}	71.1(59)
		C–N–C–H(3) ^{b)}	–50.9(61)
		N–O–Si–F(2)	64.7(4)

The nozzle temperature was 20 °C.

^{a)} Estimated standard errors.^{b)} Differences between the similar parameters were restrained to the values from MP2/6-311G** calculations.^{c)} Differences between the Si–O and Si–F(2,3) bond lengths, between the N–C and O–N bond lengths and between the C–N–C and O–N–C bond angles were restrained to the values from MP2/6-311G** calculations.^{d)} Value from MP2/6-311G** calculations was used as flexible restraint (SARACEN method).Mitzel, N.W., Losehand, U., Wu, A., Cremer, D., Rankin, D.W.H.: J. Am. Chem. Soc. **122** (2000) 4471.