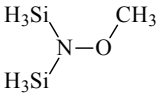
138 **CH_9NOSi_2** ***N*-Methoxy-*N*-silylsilanamine** **C_s**

ED, *ab initio* calculations

2-Methoxydisilazane

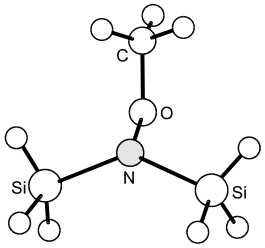
O-Methyl-*N,N*-disilylhydroxylamine



r_α	Å [a])
Si–N	1.728(1)
N–O	1.449(13)
C–O	1.414(13)
Si–H	1.439(6)
C–H	1.097(8)

θ_α	deg [a])
Si–N–Si	131.8(2)
Si–N–O	110.0(6)
N–O–C	109.1(4)
φ [b])	90 [c])
δ [d])	33.2(25)

r_a	Å [a])
Si–N	1.736(1)
N–O	1.454(13)
C–O	1.429(13)
Si–H	1.486(6)
C–H	1.137(8)



Local C_{3v} symmetry was assumed for the CH_3 and SiH_3 groups. The nitrogen atom configuration was found to be pyramidal ($\Sigma\alpha$(N) = 351.8(12)°).
The nozzle was at 293 K.

[a]) Estimated standard errors.
[b]) Dihedral angle between the NOC and SiNSi planes.
[c]) Assumed at the value from MP2/6-31+G* calculations.
[d]) Dihedral angle between the SiNSi plane and the N–O bond.

Mitzel, N.W., Breuning, E., Blake, A.J., Robertson, H.E., Smart, B.A., Rankin, D.W.H.: J. Am. Chem. Soc. **118** (1996) 2664.