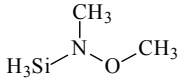
318 **C_2H_9NOSi** ***N*-Methoxy-*N*-methylsilanamine** **C_1**

ED, *ab initio* calculations

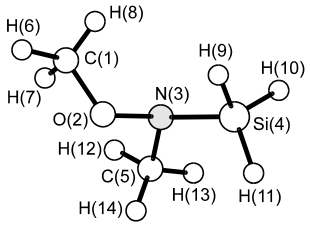
N,*O*-Dimethyl-*N*-silylhydroxylamine



r_a	Å [a])
Si(4)–N(3)	1.742(1)
C(5)–N(3)	1.460(3)
N(3)–O(2)	1.449(4)
O(2)–C(1)	1.425(4)
Si(4)–H(9)	1.483(8)
Si(4)–H(10)	1.488(9)
Si(4)–H(11)	1.490(9)
C(1)–H(6)	1.115(2)
C(1)–H(7)	1.117(5)
C(1)–H(8)	1.117(5)
C(5)–H(12)	1.116(5)
C(5)–H(13)	1.117(5)
C(5)–H(14)	1.121(5)

θ_a	deg [a])
O(2)–N(3)–Si(4)	104.3(4)
O(2)–N(3)–C(5)	106.2(12)
N(3)–O(2)–C(l)	103.2(12)
N(3)–Si(4)–H(9)	107.3(13)
N(3)–Si(4)–H(10)	106.3(14)
N(3)–Si(4)–H(11)	109.8(6)
O(2)–C(1)–H(6)	105.7(4)
O(2)–C(1)–H(7)	111.3(6)
O(2)–C(1)–H(8)	111.0(6)
N(3)–C(5)–H(12)	109.8(6)
N(3)–C(5)–H(13)	108.2(6)
N(3)–C(5)–H(14)	112.9(6)
Si(4)–N(3)–C(5) [b])	121.8(5)
C(1)–O(2)–N(3)–Si(4)	127.9(17)
C(1)–O(2)–N(3)–C(5)	–102.4(15)
O(2)–N(3)–Si(4)–H(9)	–31.5(64)
O(2)–N(3)–Si(4)–H(10)	209.5(64)
O(2)–N(3)–Si(4)–H(11)	89.8(67)
O(2)–N(3)–C(5)–H(12)	73.7(114)
O(2)–N(3)–C(5)–H(13)	–167.6(111)
O(2)–N(3)–C(5)–H(14)	–47.5(118)
N(3)–O(2)–C(1)–H(6)	168.0(83)
N(3)–O(2)–C(1)–H(7)	–71.4(85)
N(3)–O(2)–C(1)–H(8)	49.4(88)

The values from MP2/6-311G** calculations were used as constraints in the flexibly restrained ED analysis. The configuration at the N atom was found to be steeply pyramidal. The nozzle temperature was 20 °C.



[a]) Uncertainties were unidentified, possibly estimated standard errors including a systematic error. The restraint uncertainties were estimated to be 0.005 Å for differences in distances, 1.5° for the angles, 0.5° for differences between angles (both to H atoms) and 3.0° for differences between torsional angles.

[b]) Dependent parameter.

Mitzel, N.W., Oberhammer, H.: Inorg. Chem. **37** (1998) 3593.