

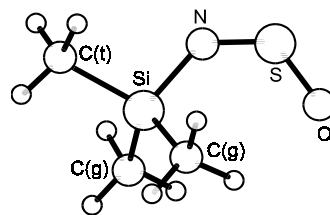
1405
ED

C₃H₉NOSSi

1,1,1-Trimethyl-*N*-sulfinylsilanamine
Trimethyl(sulfinylamino)silane

C_s
O=S=N-Si(CH₃)₃

r_a	Å ^{a)}	θ_a	deg ^{a)}
Si-N	1.750(6)	Si-N=S	133.9(9)
N=S	1.508(5)	N=S=O	122.5(10)
S=O	1.444(4)	C-Si-C	112.9(10)
Si-C	1.861(3)	N-Si-C(t)	101.5(18)
C-H	1.105(6)	N-Si-C(g)	107.9(13)
		H-C-H	109.9(10)
		tilt ((CH ₃) ₃ Si) ^{b)}	4.3(14)



Local C_{3v} symmetry and staggered orientations relative to the Si-C bonds were assumed for the methyl groups. Local C_{3v} symmetry was assumed for the Si(CH₃)₃ group with a possible tilt angle between the C₃ axis and the Si-N bond direction. The molecule possesses a planar Si-N=S=O skeleton with the *syn* conformation.

The nozzle was at room temperature.

^{a)} Three times the estimated standard errors including a systematic error.

^{b)} Tilt angle toward the nitrogen lone pair.

Gobbato, K.I., Della Védova, C.O., Oberhammer, H.: J. Mol. Struct. **350** (1995) 227.