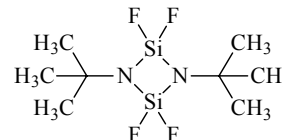


855
ED $\text{C}_8\text{H}_{18}\text{F}_4\text{N}_2\text{Si}_2$ **1,3-Bis(1,1-dimethylethyl)-2,2,4,4-**
tetrafluorocyclodisilazaneprobably C_{2h} 1,3-Di-*t*-butyl-2,2,4,4-tetrafluorocyclodisilazane

r_a	\AA^a	θ_a	deg a
C–H	1.116(6)	N–Si–N	90.0(6)
N–C	1.457(10)	F–Si–F	102.5(12)
C–C	1.546(11)	C–C–C	109.4(9)
Si–F	1.567(5)	H–C–H	109.7(14)
Si–N	1.706(3)	τ^b	75.3(15)

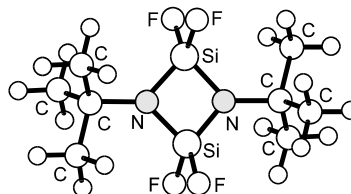


The local C_{3v} symmetry was assumed for the methyl and *t*-butyl groups. The deviation of Si–N–C–C angle from 90° could be attributed to large-amplitude torsional vibrations of the *t*-butyl group, since the barrier to internal rotation about the N–C bond was expected to be very low. Puckering of the four-membered ring and out-of-plane bending of the *t*-butyl groups were found to be very small ($5.6(21)^\circ$ and $4.2(18)^\circ$, respectively) and could be attributed to low-frequency out-of-plane vibrations.

The nozzle temperature was 35°C .

^a) Three times the estimated standard errors.

^b) Si–N–C–C torsional angle of the *t*-butyl group, $\tau = 0^\circ$ for the *syn* position.



Brönneke, C., Herbst-Irmer, R., Klingebiel, U., Neugebauer, P., Schäfer, M., Oberhammer, H.: Chem. Ber. Rec. **130** (1997) 835.