

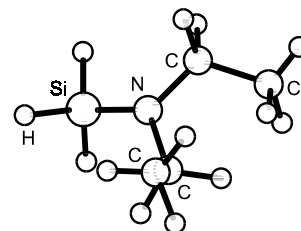
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$C_4H_{13}NSi$

(Diethylamino)silane
N,N-Diethylsilylamine

C_1
 $H_3Si-N(CH_2-CH_3)_2$

r_a	\AA^a	θ_a	deg^a
Si–N	1.715(3)	C–N–C	114.5(12)
C–N	1.456(4)	N–C–C	113.6(6)
C–C	1.543(8)	H–C–H (CH_2)	108.0 ^b
C–H	1.121(3)	C–C–H (CH_3)	107.0(10)
Si–H	1.480 ^b	N–Si–H	108.7 ^b
		φ^c	–18.5(25)
		twist (SiH_3) ^d	30 ^b
		twist (CH_3) ^e	0 ^b
		τ_1 (C–C–N–C) ^f	14.9(35)
		τ_2 (C–C–N–C) ^f	91.8(33)



The nozzle temperature was 291 K.

^a) Estimated standard errors including a systematic error.

^b) Assumed.

^c) The angle between the Si–N bond and the C–N–C plane. A negative value indicates that the Si atom lies on the opposite side of the NC_2 plane to one of the methyl groups, while the other group lies close to this plane.

^d) Defined to be zero for a conformation in which the SiH_3NC_2 fragment has local C_s symmetry.

^e) Defined to be zero for a staggered conformation.

^f) $\tau = 0^\circ$ when the C–C bond is eclipsed with respect to the further N–C bond.

Rankin, D.W.H., Robertson, H.E.: J. Mol. Struct. **158** (1987) 339.