

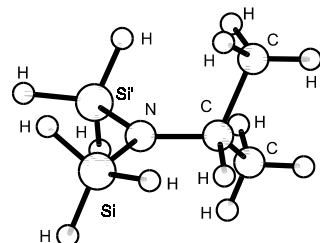
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C₃H₁₃NSi₂

2-Isopropyldisilazane
N-Isopropyldisilylamine

C₁
(CH₃)₂CH–N(SiH₃)₂

r_a	Å ^{a)}	θ_a	deg ^{a)}
Si–N	1.727(1)	Si–N–Si	121.6(2)
C–N	1.487(5)	N–C–C	111.4(9)
C–C	1.550(6)	H–Si–N	109.0 ^{b)}
Si–H	1.471(6)	H–C–C	109.0 ^{b)}
C–H	1.136(3)	C–C–C	107.6(15)
		N–C–H	109.0 ^{b)}
		Si–N–C	116.5(5)
		Si'–N–C	121.9(5)
		φ ^{c)}	0.0 ^{d)}
		τ_1 (C–N) ^{e)}	75.9(5)
		τ_2 (Si–N) ^{f)}	43.1 ^{d)}
		τ_3 (C–C) ^{g)}	–5.3 ^{d)}



The unique C–H bond almost eclipses one of the Si–N bonds and the asymmetry thereby introduced leads to non-equivalent Si–N–C angles.

The measurements were made at room temperature.

^{a)} Estimated standard errors including a systematic error.

^{b)} Assumed.

^{c)} Angle between the SiNSi plane and the N–C bond.

^{d)} Refined, then fixed.

^{e)} Twist angle around C–N bond; $\tau_1 = 0^\circ$ when the NCH plane is perpendicular to the SiNSi plane.

^{f)} H–Si–N–C torsion angle; $\tau_2 = 0^\circ$ for the *syn* position.

^{g)} Twist angle around C–C bond; $\tau_3 = 0^\circ$ for the staggered conformation of the methyl group.

Anderson, D.G., Rankin, D.W.H.: J. Chem. Soc., Dalton Trans. (1989) 779.