

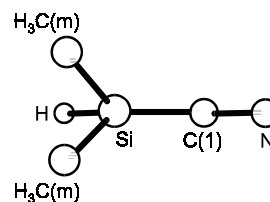
1336
ED

C₃H₇NSi

Dimethylsilylmethanenitrile
Dimethylsilyl cyanide

C_s
(CH₃)₂SiH–C≡N

r_a	Å ^{a)}	θ_a	deg ^{a)}
Si–C(1)	1.867(9)	H–C–H	110.2(7)
Si–C(m)	1.857(5)	C(m)–Si–C(1)	111.4(15)
Si–H	1.51 ^{b)}	C(m)–Si–C(m)	103.2(20)
C–H	1.110(7)	H–Si–C(1)	109 ^{b)}
C≡N	1.164(7)	Si–C≡N	170(4) ^{c)}
		H–C–Si–C(1)	30(3)



The nozzle was at room temperature.

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

^{b)} Assumed.

^{c)} The apparent deviation from linearity is likely to be caused by the shrinkage effect.

Cradock, S., Huntley, C.M., Rankin, D.W.H.: J. Mol. Struct. **178** (1988) 217.

MW

r_0	Å ^{a)}	θ_0	deg ^{a)}
Si–C(1)	1.840(10)	H–C–H	108.0 ^{b)}
Si–C(m)	1.867 ^{b)}	C(m)–Si–C(m)	112.25(100)
Si–H	1.483 ^{b)}	H–Si–C(m)	109.16 ^{b)}
C–H	1.095 ^{b)}	Si–C≡N	180 ^{b)}
C≡N	1.156 ^{b)}	ϕ ^{c)}	123.97(100)

^{a)} Uncertainties were not estimated in the original paper.

^{b)} Assumed.

^{c)} Angle between the C(m)SiC(m) plane and Si–C≡N.

Durig, J.R., Cooper, P.J., Li, Y.S.: Inorg. Chem. **14** (1975) 2845.