

1446
ED

C₃H₁₃NSi₂

***N,N*-Bis(methylsilyl)methylamine**

C₁
H₃C–N(SiH₂CH₃)₂

r_a	Å ^{a)}	θ_a	deg ^{a)}
C–H	1.120(6)	N–C–H	108.0 ^{b)}
C–N	1.492(12)	Si–C–H	111.2(10)
Si–H	1.476(16)	Si–N–Si	125.6(10)
Si–C	1.864(5)	N–Si–C	113.5(18)
Si–N	1.718(3)	H–Si–H	109.0 ^{b)}
		$\tau_1(\text{N–C})$ ^{c) d)}	–30.0 ^{b)}
		$\tau_2(\text{Si–N})$ ^{d) e)}	54.5(18)
		$\tau_3(\text{Si–N})$ ^{d) e)}	123.0(29)
		$\tau_4(\text{Si–C})$ ^{d) f)}	60.0 ^{b)}
		tilt (SiH ₂) ^{g)}	–4.0 ^{b)}

The CNSi₂ skeleton is planar.
The nozzle temperature was 22 °C.

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

^{b)} Assumed.

^{c)} H–C–N–Si dihedral angle.

^{d)} $\tau = 0^\circ$ for *syn* position.

^{e)} C–Si–N–Si dihedral angle.

^{f)} H–C–Si–N dihedral angle.

^{g)} A positive tilt makes the angle C–Si–H greater than the angle N–Si–H.

