

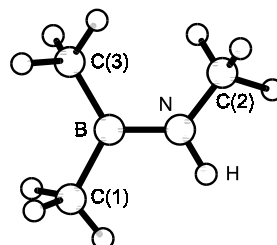
1422
ED

C₃H₁₀BN

Dimethyl(methylamino)borane

essentially C_s (skeleton)
H₃C–NH–B(CH₃)₂

r_a	Å ^{a)}	θ_α	deg ^{a)}
N–H	1.026(8)	B–N–H	122.0 ^{b)}
C–H	1.105(3)	B–C–H	111.5(5)
B–C	1.586(2)	N–C–H	111.3(6)
B–N	1.397(2)	B–N–C(2)	128.0(6)
N–C	1.456(2)	N–B–C(1)	119.4(5)
		N–B–C(3)	120.8(5)
		τ_1 ^{c)}	0.0 ^{b)}
		τ_2 ^{d)}	30.0 ^{b)}
		τ_3 ^{e)}	–30.0 ^{b)}
		τ_4 ^{f)}	7.9(62)



The skeleton has a slightly non-planar structure. The bonding around the boron atom is coplanar.

The nozzle temperature was 20 °C.

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

^{b)} Assumed.

^{c)} Dihedral angle H–C(1)–B–N.

^{d)} Dihedral angle H–C(3)–B–C(1).

^{e)} Dihedral angle H–C(2)–N–B.

^{f)} Dihedral angle C(2)–N–B–C(3).

Almenningen, A., Gundersen, G., Mangerud, M., Seip, R.: Acta Chem. Scand. Ser. A **35** (1981) 341.