

1436
MW

C₃H₁₁BFN

Trimethylamine – fluoroborane (1/1)

C_s
(CH₃)₃N · BH₂F

r_0	Å	θ_0	deg
C–H	1.097(10)	N...B–H	104.7(7)
B–H	1.210(10)	N...B–F	105.3(5)
B...N	1.633(6)	C(1)–N–B ^{a)}	109.5(10)
B–F	1.402(15)	C(2,3)–N–B ^{a)}	110.1(5)
C(1)–N ^{a)}	1.492(9)	N–C–H	109.2(10)
C(2,3)–N ^{a)}	1.494(16)	τ_1 ^{b)}	120(27)
		τ_2 ^{c)}	60.0(7)

Atom		
¹⁴ N ¹¹ B species	a_s [Å]	b_s [Å]
N	0.476	–0.010
B	–0.894	–0.898

^{a)} C(1) is on the NBF plane and C(2,3) are out of this plane.

^{b)} Dihedral angle H–B–N–F.

^{c)} Dihedral angle C–N–B–F.

Cassoux, P., Kuczkowski, R.L., Fong, G.D., Geanangel, R.A.: J. Mol. Struct. **48** (1978) 25.