

Structure Data of Free Polyatomic Molecules

111 MW	CH ₃ BF ₄	Fluoromethane – trifluoroborane (1/1)		C _s	
		(weakly bound complex)		(effective symmetry class)	
				(large-amplitude motion)	
				CH ₃ F · BF ₃	
		r_0	Å ^{a)}	θ_0	deg ^{a)}
		B...F	2.4(1)	B...F–C	120(1)

Two internal rotation states were identified. The fluorine of the CH₃F approaches the BF₃ on or near its C₃ axis.

^{a)} Uncertainty was not estimated in the original paper.

Phillips, J.A., Canagaratna, M., Ott, M., Leopold, K.R.: 51st Ohio State Univ. Int. Symp. Mol. Spectrosc., Columbus, Ohio (1996) TD07.