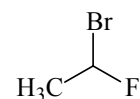
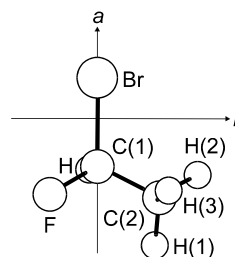


252
MW $\text{C}_2\text{H}_4\text{BrF}$

1-Bromo-1-fluoroethane

 C_1

r_0	$\text{\AA}^a)$	θ_0	$\text{deg}^a)$
C(1)–C(2)	1.517(3)	C(2)–C(1)–Br	111.1 ^{b)}
C(1)–Br	1.941(2)	C(2)–C(1)–F	109.7 ^{b)}
C(1)–F	1.368(3)	C(2)–C(1)–H	113.3 ^{b)}
C(1)–H	1.094(5)	C(1)–C(2)–H(1)	108.6 ^{b)}
C(2)–H(1)	1.087(5)	C(1)–C(2)–H(2)	110.4 ^{b)}
C(2)–H(2)	1.081(5)	C(1)–C(2)–H(3)	109.8 ^{b)}
C(2)–H(3)	1.087(5)	Br–C(1)–F	108.8 ^{b)}
		Br–C(1)–H	105.6 ^{b)}
		F–C(1)–H	108.1 ^{b)}
		H(1)–C(2)–H(2)	109.5 ^{b)}
		H(1)–C(2)–H(3)	109.2 ^{b)}
		H(2)–C(2)–H(3)	109.2 ^{b)}
		Br–C(1)–C(2)/F–C(1)–C(2) ^{c)}	120.4 ^{b)}
		Br–C(1)–C(2)/H–C(1)–C(2) ^{c)}	118.6 ^{b)}
		Br–C(1)–C(2)–H(1)	179.3 ^{b)c)}
		Br–C(1)–C(2)–H(2)	60.6 ^{b)c)}
		Br–C(1)–C(2)–H(3)	59.9 ^{b)c)}

^{a)} Uncertainties were not estimated in the original paper.^{b)} Assumed.^{c)} Dihedral angle.Tatamitani, Y., Kuwano, S., Fuchigami, K., Oe, S., Ogata, T.: J. Mol. Spectrosc. **196** (1999) 189.