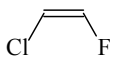
206 **C_2H_2ClF** ***cis*-1-Chloro-2-fluoroethylene** **C_s**

MW, *ab initio* calculations

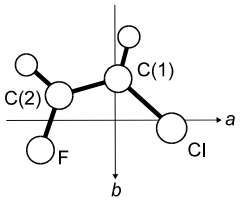
(*Z*)-1-Chloro-2-fluoroethene



r_s	Å	θ_s	deg
C(1)–Cl	1.7198(4)	Cl–C(1)–C(2)	122.94(1)
C(1)–H	1.1077(2)	H–C(1)–C(2)	126.07(3)
C(1)–C(2)	1.3219(5)	F–C(2)–C(1)	122.65(3)
C(2)–F	1.3289(2)	H–C(2)–C(1)	123.96(1)
C(2)–H	1.09036(5)		

$r_m^{(2)}$	Å	$\theta_m^{(2)}$	deg
C(1)–Cl	1.715(4)	Cl–C(1)–C(2)	123.1(2)
C(1)–H	1.077(6)	H–C(1)–C(2)	121.9(8)
C(1)–C(2)	1.330(7)	F–C(2)–C(1)	122.8(4)
C(2)–F	1.327(8)	H–C(2)–C(1)	123.8(2)
C(2)–H	1.081(5)		

r_e [a])	Å	θ_e [a])	deg
C(1)–Cl	1.715(2)	Cl–C(1)–C(2)	123.3(1)
C(1)–H	1.077(1)	H–C(1)–C(2)	120.4(1)
C(1)–C(2)	1.325(1)	F–C(2)–C(1)	123.1(1)
C(2)–F	1.331(1)	H–C(2)–C(1)	122.9(1)
C(2)–H	1.079(1)		



[a]) *Ab initio* recommended equilibrium geometry.

Puzzarini, C., Cazzoli, G., Dore, L., Gambi, A.: Phys. Chem. Chem. Phys. **3** (2001) 4189.