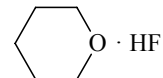


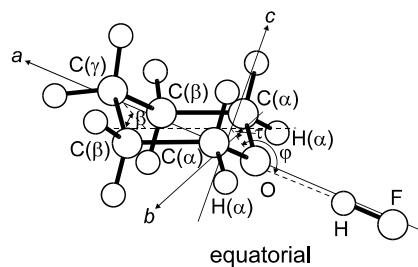
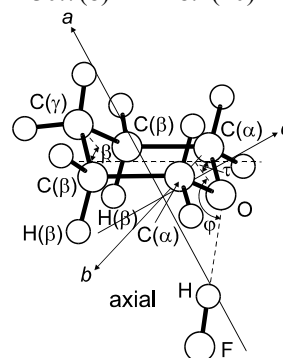
670
MW $\text{C}_5\text{H}_{11}\text{FO}$ **Tetrahydro-2*H*-pyran – hydrogen fluoride (1/1)**

(weakly bound complex)

 C_s (effective symmetry class)
(large-amplitude motion)

r_0	\AA^{a}	
	axial	equatorial
O–C(α)	1.45(3)	1.45 ^b
C(α)–C(β)	1.50(3)	1.50 ^b
C(β)–C(γ)	1.535(5)	1.535 ^b
O...F	2.60(2)	2.55(4)
O...H	1.67(2)	1.62(4)
F...H(β)	3.11(3)	3.40(3)
C–H	1.097 ^b	1.097 ^b

θ_0	deg^{a}	
	axial	equatorial
C(α)–O–C(α)	110(3)	110 ^b
C(β)–C(γ)–C(β)	109.2(5)	109.2 ^b
H–C–H	109 ^b	109 ^b
τ^{c}	53.0(3)	53.0 ^b
β^{c}	48.7(6)	48.7 ^b
φ^{c}	130.7(8)	148.1(10)

^a) Estimated standard errors.^b) Assumed.^c) See figure for the definition.Antolínez, S., López, J.C., Alonso, J.L.: Chem.
Phys. Chem. **2** (2001) 114.