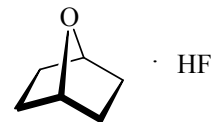


746 **C₆H₁₁FO** **7-Oxabicyclo[2.2.1]heptane – hydrogen fluoride (1/1)** **C_s**
 MW (weakly bound complex) (effective symmetry class)
 (large-amplitude motion)

r_0	Å ^{a)}	θ_0	deg ^{a)}
O–C(α)	1.47(4)	C(α)–O–C(α)	95(3)
C(α)–C(β)	1.54(2)	C(α)–C(β)–C(β)	101.7(11)
C(β)–C(β)	1.551(9)	C(β)–C(α)–C(β')	110(2)
C–H	1.095 ^{b)}	H–C–H	110 ^{b)}
O...F	2.57(2)	τ ^{c)}	66.9 ^{b)}
O...H	1.64(2)	φ ^{c)}	125.9(12)
F...H(β)	3.07(4)		

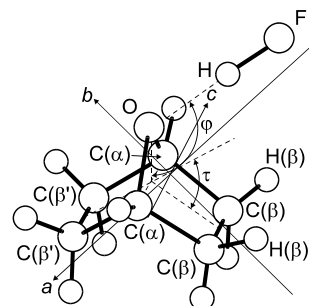


The observed data on the C₆H₁₀O · DF species are consistent with C_s symmetry and a linear hydrogen bonding lying in the symmetry plane bisector to the angle COC. No significant distortion occurs for the structure of 7-oxabicyclo[2.2.1]heptane upon complexation.

^{a)} Estimated standard errors.

^{b)} Assumed.

^{c)} See figure for the definition.



Antolínez, S., Gerbi, M., López, J.C., Alonso, J.L.: Phys. Chem. Chem. Phys. **3** (2001) 796.