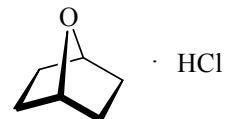
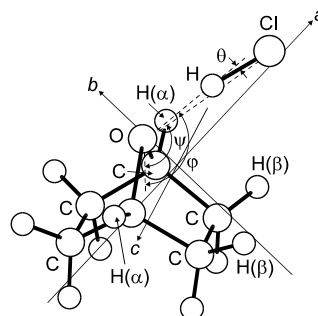


745
MW $C_6H_{11}ClO$ **7-Oxabicyclo[2.2.1]heptane – hydrogen chloride (1/1)**
(weakly bound complex) C_s (effective symmetry class)
(large-amplitude motion)

r_0	\AA^a	θ_0	deg^a
O...H ^{b)}	1.764(29)	$\psi^c)^d)$	126.9(21)
O...Cl	3.043(25)	$\varphi^c)^e)$	129.7(37)
Cl...H(α) ^{c)}	3.971(34)	$\theta^c)^f)$	6.6(38)
Cl...H(β) ^{c)}	3.370(67)		



C_s symmetry has been established for the complex, where the hydrogen chloride lies on the plane bisector to the COC angle of 7-oxabicyclo[2.2.1]heptane.



^{a)} Estimated standard errors.

^{b)} Hydrogen atom of HCl.

^{c)} See figure for the definitions of angles and H(α) and H(β) atoms.

^{d)} Angle between the 7-oxabicyclo[2.2.1]heptane C_2 axis and the O...Cl direction.

^{e)} Angle between the 7-oxabicyclo[2.2.1]heptane C_2 axis and the O...H bond direction.

^{f)} Deviation of the O...H–Cl atoms involved in the hydrogen bond from a collinear arrangement.

Antolinez, S., Blanco, S., López, J.C., Alonso, J.L.: Phys. Chem. Chem. Phys. **2** (2000) 4658.