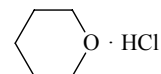
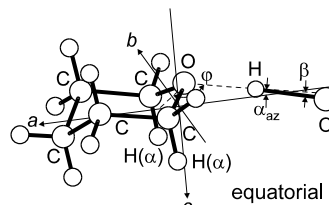
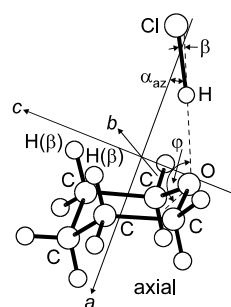


668
MW $C_5H_{11}ClO$ **Tetrahydro-2H-pyran – hydrogen chloride (1/1)**
(weakly bound complex) C_s (axial)
 C_s (equatorial)
(effective symmetry class)
(large-amplitude motion)

r_0	\AA^a		θ_0	deg^a	
	axial	equatorial		axial	equatorial
O...Cl	3.133(10)	3.021(10)	ϕ^b	124.1(10)	136(2)
O...H ^c	1.851(16)	1.740(15)	φ^d	125.9(13)	138.4(13)
Cl...H(β)	3.41(3)		β^e	4(4)	5(3)
Cl...H(α)		3.83(3)	α_{az}^e ^f	31.11(18)	11.25(11)

Two conformers, axial and equatorial, were detected.

^a) Estimated standard errors.^b) Angle between the O...Cl line and the line bisecting the C–O–C angle.^c) Hydrogen atom of the HCl subunit.^d) Angle between the O...H line and the line bisecting the C–O–C angle.^e) See figure for the definition.^f) Values corresponding to the parent isotopic species.

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111 (1999) 1889; Angew. Chem., Int. Ed. Engl. **38** (1999) 1772.