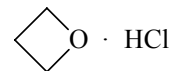


414
MW**C₃H₇ClO****Oxetane – hydrogen chloride (1/1)**
(weakly bound complex)**C_s**
(effective symmetry class)
(large-amplitude motion)

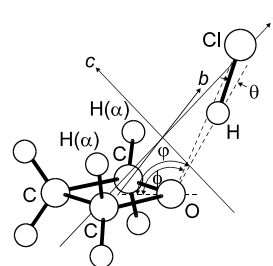
r_0	Å ^{a)}	θ_0	deg ^{a)}
O...Cl	3.00(2)	$\phi^b)$	116.3(12)
O...H	1.73(3)	$\phi^b)$	121(2)
Cl...H(α)	3.35(3)	$\theta^b)$	12(2)



HCl lies in the symmetry plane bisector to the COC angle. The planar configuration of isolated oxetane remains in the dimer, which implies that no significant change in the potential energy function of ring puckering motion of oxetane occurs upon complexation.

^{a)} Estimated standard errors.

^{b)} See figure for the definition.



Antolínez, S., López, J.C., Alonso, J.L.: Chem. Phys. Lett. **334** (2001) 250.