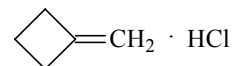


651  
MW $\text{C}_5\text{H}_7\text{Cl}$ **Methylenecyclobutane – hydrogen chloride (1/1)**

(weakly bound complex)

 $\text{C}_s$ (effective symmetry class)  
(large-amplitude motion)

$r_0$	Å	$\theta_0$	deg
$r_1^a$	3.529(12)	$\phi^a$	85.0(5)
$r_2^a$	2.279(39)	$\varphi^a$	91(2)
$r_3^a)^b$	3.417(68)	$\theta^a)^c$	16

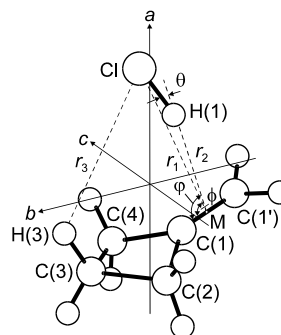


Only an *endo* conformer was detected in which methylene cyclobutane retains a puckered conformation and HCl is bonded in the T-shape to the methylene group.

<sup>a)</sup> See figure for the definition. M is the middle point of the double bond.

<sup>b)</sup> Distance between the Cl atom and its closest hydrogen atom at C(3).

<sup>c)</sup> Dependent parameter.



Lesarri, A., Blanco, S., López, J.C., Alonso, J.L.: J. Chem. Phys. **116** (2002) 4116.