

135
MW

CH₃O

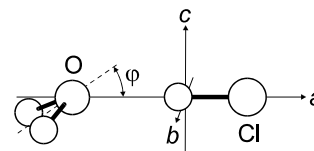
Hydrogen chloride – water (1/1)
(weakly bound complex)

C_s
(effective symmetry class)
(large-amplitude motion)
HCl · H₂O

Isotopic species	$r_0(\text{O} \cdots \text{Cl})$ [Å]	$\theta_0(\varphi)$ [deg] ^{a)}
H ₂ O · HCl	3.2273(3)	34.7(4)
H ₂ O · DCl	3.2264(3)	36.5(3)

The intermolecular stretching force constant k_σ is 12.7 N m⁻¹.

^{a)} See figure for the definition.



Kisiel, Z., Pietrewicz, B.A., Fowler, P.W., Legon, A.C., Steiner, E.: J. Phys. Chem. A **104** (2000) 6970.

Replaces [II/25A\(2, 288\)](#)