

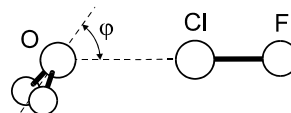
115  
MW

 $\text{ClFH}_2\text{O}$ 
**Chlorine fluoride – water (1/1)**  
(weakly bound complex)

 $\text{C}_s$   
(effective symmetry class)  
(large-amplitude motion)  
 $\text{ClF} \cdot \text{H}_2\text{O}$ 

$r_0$	$\text{\AA}$	$\theta_0$	deg
O...Cl	2.6081(23)	$\varphi^{\text{a}}$	58.9(16)
O...F	4.240(2)		

 The intermolecular stretching force constant is  $14.26 \text{ N m}^{-1}$ .

<sup>a</sup>) See figure for the definition.

 Cooke, S.A., Cotti, G., Evans, C.M., Holloway, J.H., Kisiel, Z., Legon, A.C.,  
Thumwood, J.M.A.: Chem. Eur. J. **7** (2001) 2295.