

132  
MW

 $\text{CH}_4\text{O}_2$ 
**Formaldehyde – water (1/1)**  
(weakly bound complex)

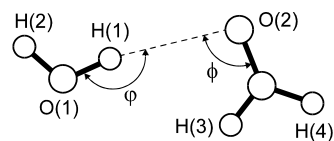
 $\text{C}_s$   
(effective symmetry class)  
(large-amplitude motion)  
 $\text{H}_2\text{CO} \cdot \text{H}_2\text{O}$ 

$r_0$	$\text{\AA}^{\text{a}}$	$\theta_0$	$\text{deg}^{\text{a}}$
O(2)...H(1)	2.012(29)	$\phi^{\text{b}}$	95.4(31)
O(1)...O(2)	2.94 <sup>c)</sup>	$\phi^{\text{b}}$	163(9)
O(1)...H(3)	2.68 <sup>c)</sup>		
$R_{\text{cm}}$	3.00(3)		

 The intermolecular stretching force constant  $k_\sigma$  is  $8.93 \text{ N m}^{-1}$ .

<sup>a)</sup> Twice the estimated standard errors.

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

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

 Lovas, F.J., Lugez, C.L.: J. Mol. Spectrosc. **179** (1996) 320.