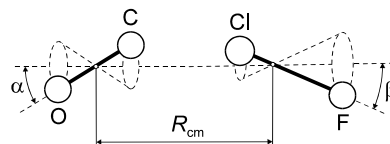


19  
MW

CCIFO

**Carbon monoxide – chlorine fluoride (1/1)**  
(weakly bound complex)**C<sub>∞v</sub>**  
(effective symmetry class)  
(large-amplitude motion)  
CO · ClF

Isotopic species	$r_0(R_{\text{cm}})$ [Å] <sup>a)</sup>	$r_0(\text{C}\cdots\text{Cl})$ [Å]	$k_\sigma$ <sup>b)</sup> [N m <sup>-1</sup> ]
<sup>16</sup> O <sup>12</sup> C · <sup>35</sup> ClF	3.391(3)	2.770(3)	7.02
<sup>16</sup> O <sup>12</sup> C · <sup>37</sup> ClF	3.970(3)	2.770(3)	7.05
<sup>16</sup> O <sup>13</sup> C · <sup>35</sup> ClF	3.968(3)	2.771(3)	7.05
<sup>18</sup> O <sup>12</sup> C · <sup>35</sup> ClF	4.022(3)	2.769(3)	7.03

<sup>a)</sup> Derived by assuming  $\alpha_{\text{av}} = 15(3)^\circ$  and  $\beta_{\text{av}} = 10(3)^\circ$ .<sup>b)</sup> Intermolecular stretching force constant.Hinds, K., Holloway, J.H., Legon, A.C.: Chem. Phys. Lett. **242** (1995) 407.