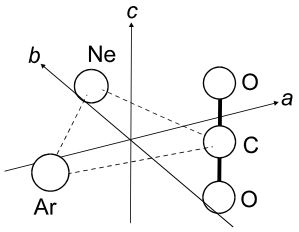
5 **$CArNeO_2$** **Carbon dioxide – argon – neon (1/1/1)** **C_1**
MW (weakly bound complex) (large-amplitude motion)
$CO_2 \cdot Ar \cdot Ne$

r_0	Å [a])		
	fit I	fit II	fit III
Ne...C	3.285(5)	3.264(5)	3.278(5)
Ar...C	3.499(5)	3.499(5)	3.503(5)
Ne...Ar	3.638(5)	3.621(5)	3.601(5)

θ_0	deg [a])		
	fit I	fit II	fit III
Ne...C=O	90.0 [b])	79.5(5) [c])	78.8(5) [c])
Ar...C=O	90.0 [b])	89.4(5) [c])	86.6(5) [c])

Structural information from the rotational constants indicates that the three dimer subunits are only slightly modified upon formation of the trimer system. The nuclear quadrupole coupling constants χ_{aa}, χ_{bb} and χ_{cc} of ^{17}O were used to obtain information about the extent of intermolecular vibrational motions within the complex.



[a]) Uncertainties were not estimated in the original paper.
[b]) Assumed.
[c]) Ne...C=O and Ar...C=O are measured to the same oxygen atom.

Xu, Y., Jäger, W: Mol. Phys. **93** (1998) 727.