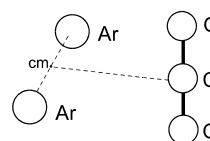


7
MW**CAr₂O₂****Carbon dioxide – argon (1/2)**
(weakly bound complex)**C_{2v}** (fit I)
C₂ (fit II)
(effective symmetry class)
(large-amplitude motion)
CO₂ · 2Ar

r_0	\AA^a		θ_0	deg^a	
	fit I	fit II		fit I	fit II
Ar...C	3.508(5)	3.499(5)	Ar...C=O	90.0 ^{b)}	80.9(5) ^{c)}
Ar...Ar	3.843(5)	3.843(5)			

Structural information from the rotational constants indicates that the three dimer subunits are only slightly modified upon formation of the trimer system.



^{a)} Uncertainties were not estimated in the original paper.

^{b)} Assumed.

^{c)} Because of the floppiness of the system, this third parameter is introduced in addition to the two interatomic distances, Ar...C and Ar...Ar. This third parameter describes the tilt of the CO₂ unit towards the center of mass of the 2Ar subunit.

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

Replaces [II/25B\(3, 7\)](#)