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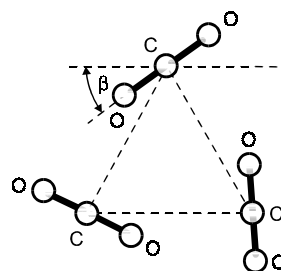
C_3O_6

Carbon dioxide trimer
(weakly bound complex)

C_3
(effective symmetry class)
 $\text{CO}_2 \cdot \text{CO}_2 \cdot \text{CO}_2$

r_0	\AA	θ_0	deg
C...C	4.0376(2)	β	33.8(5)

The trimer is a cyclic symmetric top with C_3 symmetry. The angle β is between one OCO subunit and parallel to the line joining the two other C atoms. The structure of the subunits is assumed to be unchanged on complex formation. Note that spectral evidence and model predictions suggest that there is an asymmetric top isomer of the trimer that is energetically comparable to the observed cyclic isomer.



Weida, M.J., Sperhac, J.M., Nesbitt, D.J.: J. Chem. Phys. **103** (1995) 7685.