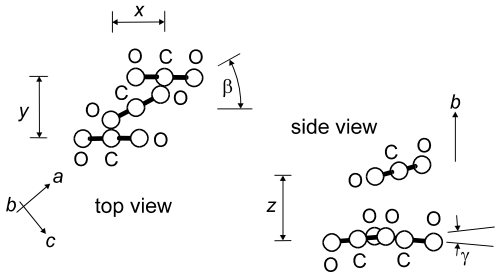
469 **C_3O_6** **Carbon dioxide trimer** **C_2**
IR (weakly bound complex) (effective symmetry class)
(large-amplitude motion)
$3(CO_2)$

r_0	Å [a])	θ_0	deg [a])
x [b])	2.380(43)	β [b])	27.1(69)
y [b])	2.913(43)	γ [b])	5.8(40)
z [b])	3.017(28)		



The non-cyclic structure was determined from two rovibrational bands corresponding to the two most IR-active linear combinations of the three constituent CO_2 monomer asymmetric stretches. The C_2 symmetry axis was established due to the nuclear spin statistics of the rovibrational transitions. The geometries of the monomer subunits were assumed to be unchanged upon complexation.

[a]) Estimated standard errors.
[b]) See figure for the definition.

Weida, M.J., Nesbitt, D.J.: J. Chem. Phys. **105** (1996) 10210.

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