

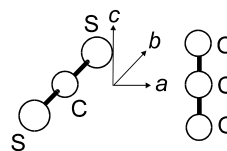
330
IR

 $\text{C}_2\text{O}_2\text{S}_2$
Carbon dioxide – carbon disulfide (1/1)
(weakly bound complex)

 C_{2v}
(effective symmetry class)
(large-amplitude motion)

 $\text{CO}_2 \cdot \text{CS}_2$

r_0	$\text{\AA}^{\text{a)}}$	θ_0	deg
$\text{C}\cdots\text{C}$	3.392(10)	$\text{O}=\text{C}\cdots\text{C}=\text{S}$	90 ^{b)}



The nonplanar X-shaped structure was determined from the rovibrational band of the asymmetric stretch of the CO_2 moiety. The geometries of the monomer subunits were assumed to be unchanged upon complexation.

^{a)} Uncertainty was not estimated in the original paper.

^{b)} Assumed according to the absence of *b*-type transitions.

Dutton, C.C., Dows, D.A., Eikey, R., Evans, S., Beaudet, R.A.: J. Phys. Chem. A **102** (1998) 6904.