

1076 MW	$\text{C}_3\text{H}_2\text{O}_2$	Acetylene – carbon dioxide (1/1) (weakly bound complex)		$\text{C}_{2v}^{\text{a})}$ (effective symmetry class) $\text{HC}\equiv\text{CH} \cdot \text{CO}_2$
	$\text{DCCD} \cdot \text{CO}_2$			
	r_0 $\text{\AA}^{\text{b})}$	θ_0	deg $^{\text{b})}$	
	R_{cm} 3.292(5)	$\chi_a^{\text{c})}$	6.8(5)	
		$\phi_a^{\text{d})}$	6.5(5)	
		$\chi_c^{\text{c})}$	−3.1(5)	
		$\phi_c^{\text{d})}$	3.5(5)	
	$\text{HCCH} \cdot \text{CO}_2$			
	r_0 $\text{\AA}^{\text{b})}$	θ_0	deg $^{\text{b})}$	
	R_{cm} 3.292(5)	$\chi_a^{\text{c})}$	7.9(5)	
		$\phi_a^{\text{d})}$	8.5(10)	
		$\chi_c^{\text{c})}$	−2.6(5)	
		$\phi_c^{\text{d})}$	3(1)	

^{a)} The two monomers are parallel to one another.

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

^{c)} χ_a and χ_c denote the average angles between $\text{HC}\equiv\text{CH}$ and the a and c axes, respectively.

^{d)} ϕ_a and ϕ_c denote the average angles between CO_2 and the a and c axes, respectively.

Muenter, J.S.: J. Chem. Phys. **90** (1989) 4048.

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r_0	\AA
R_{cm}	3.289(1)

The bond length, R_{cm} , is the distance between the centers of mass of the two monomer units. The assumption that the structure of the monomer units remains unchanged upon complexation has been made. The symmetry of the complex is established with the observed nuclear spin statistics.

Huang, Z.S., Miller, R.E.: Chem. Phys. **132** (1989) 185.

See also: Prichard, D.G., Nandi, R.N., Muenter, J.S., Howard, B.J.: J. Chem. Phys. **89** (1988) 1245.