


Structure Data of Free Polyatomic Molecules

89 MW	CHS	Mercaptomethyldyne	C_s 		
		Carbon hydrogen monosulfide			
		Hydrogensulfidocarbon			
		r_z	$\text{\AA}^a)$	θ_z	$\text{deg}^a)$
		H-S	1.390(3)	H-S-C	104.2(2)
		S-C	1.6403(5)		
		r_e	$\text{\AA}^a)$	θ_e	$\text{deg}^a)$
		H-S	1.379(3)	H-S-C	104.2(2)
		S-C	1.6343(5)		

The Fermi contact term of the hydrogen nucleus takes a large positive value, 288.845 ± 0.185 MHz, which indicates that the HSC radical is a σ radical ($^2A'$) in the ground electronic state.

^{a)} Three times the estimated standard errors.

Habara, H., Yamamoto, S.: J. Chem. Phys. **112** (2000) 10905.