

# Structure Data of Free Polyatomic Molecules

<b>129</b>	<b><math>\text{ClH}_2^-</math></b>	<b>Dihydrogen – chloride (1/1)</b>	<b><math>\text{C}_{\infty v}</math></b>
IR		(weakly bound complex)	(effective symmetry class) (large-amplitude motion)
			$\text{H}_2 \cdot \text{Cl}^-$
	State	$R_{\text{cm}} [\text{\AA}]^{\text{a}}$	
	$\nu=0$	3.19(4)	
	$\nu=1$	3.07(4)	

The structure was determined from the rotationally resolved IR predissociation spectrum of the H–H fundamental.

<sup>a</sup>) Uncertainties were not given in the original paper.

Wild, D.A., Wilson, R.L., Weiser, P.S., Bieske, E.J.: J. Chem. Phys. **113** (2000) 10154.