


Structure Data of Free Polyatomic Molecules

141 MW	ClO₂P		Phosphorus chloride dioxide		C_{2v} 
			Phosphenic chloride		
	r_0	Å	θ_0	deg	
	P=O	1.450(4)	Cl–P=O	113.0(5)	
	P–Cl	1.971(6)	O=P=O	134.1(9)	
	$r_{\Delta I/\Delta P}^a$	Å	$\theta_{\Delta I/\Delta P}^a$	deg	
	P=O	1.448(2)	Cl–P=O	112.9(2)	
	P–Cl	1.972(2)	O=P=O	134.2(3)	

^a) Derived by using the isotopic differences in the moments of inertia (ΔI) or the planar moments of inertia (ΔP), whereas the r_s is obtained from the change in moments of inertia upon isotopic substitution, combined with the first- and second-moment conditions, if necessary.

Brupbacher-Gatehouse, B.: J. Am. Chem. Soc. **122** (2000) 4171.