

1426
MW

C₃H₁₀ClP

Trimethylphosphine – hydrogen chloride (1/1)
(weakly bound complex)

C_{3v}
(effective symmetry class)
(CH₃)₃P · HCl

Molecule	$r_0(R_{\text{cm}})$ [Å]	$r_0(\text{P}\cdots\text{Cl})$ [Å]	k_σ [N m ⁻¹]
(CH ₃) ₃ P · H ³⁵ Cl	4.113(2)	3.598(2)	10.42
(CH ₃) ₃ P · H ³⁷ Cl	4.115(2)	3.598(2)	10.55
(CH ₃) ₃ P · D ³⁵ Cl	4.084(2)	3.603(2)	10.85

The angles $\alpha_{\text{av}} = 13(2)^\circ$ and $\beta_{\text{av}} = 15(5)^\circ$ were assumed.

Legon, A.C., Thorn, J.C.: J. Chem. Soc. Farad. Trans.
89 (1993) 3319.

