

1424
MW

C₃H₁₀BrP

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

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

Molecule	$r_0(R_{\text{cm}})$ [Å]	$r_0(\text{P}\cdots\text{Br})$ [Å]	k_σ [N m ⁻¹]
(CH ₃) ₃ P · H ⁷⁹ Br	4.233(1)	3.699(1)	8.50
(CH ₃) ₃ P · H ⁸¹ Br	4.233(1)	3.699(1)	8.40
(CH ₃) ₃ P · D ⁷⁹ Br	4.224(1)	3.708(1)	8.64

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.

