
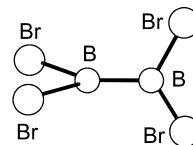


Structure Data of Free Polyatomic Molecules

70 ED	B₂Br₄	Diboron tetrabromide Tetrabromodiborane(4)	D_{2d} B ₂ Br ₄												
	<table><tr><th><i>r</i>_a</th><th>Å ^{a)}</th></tr><tr><td>B–B</td><td>1.689(16)</td></tr><tr><td>B–Br</td><td>1.902(4)</td></tr></table>	<i>r</i> _a	Å ^{a)}	B–B	1.689(16)	B–Br	1.902(4)	<table><tr><th><i>θ</i>_α</th><th>deg ^{a)}</th></tr><tr><td>Br–B–Br</td><td>120.7(3)</td></tr><tr><td>B–B–Br</td><td>119.8(2)</td></tr></table>	<i>θ</i> _α	deg ^{a)}	Br–B–Br	120.7(3)	B–B–Br	119.8(2)	
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The nozzle was at 23, 90, 150 and 305 °C. The average rotational barrier for the four temperatures was found to be 3.07(33) kcal mol⁻¹. The parameters are listed for 23 °C.

^{a)} Twice the estimated standard errors.

Danielson, D.D., Hedberg, K.: J. Am. Chem. Soc. **101** (1979) 3199.