

## Structure Data of Free Polyatomic Molecules

<b>105</b> ED	<b>Br<sub>3</sub>Er</b>	<b>Erbium tribromide</b> Erbium(III) bromide	<b>D<sub>3h</sub></b> ErBr <sub>3</sub>
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$r_g$	$\text{\AA}^a)$	$\theta_\alpha$	$\text{deg}^a)$
Er–Br	2.582(6)	Br–Er–Br	120(2)

A small amount (2.5(10) mol%) of dimeric molecules was also detected in the gas phase by mass spectrometry.

The nozzle temperature was 1095(10) K.

The equilibrium bond length,  $r_e(\text{Er–Br})$ , was roughly estimated to be 2.561(9) Å.

<sup>a</sup>) 2.5 times the estimated standard error including a systematic error.

Zakharov, A.V., Giricheva, N.I., Vogt, N., Shlykov, S.A., Vogt, J., Girichev, G.V.: J. Chem. Soc., Dalton Trans. (2001) 3160.