

# Structure Data of Free Polyatomic Molecules

<b>1</b> MW	<b>AgArBr</b>	<b>Argon – silver bromide (1/1)</b> (weakly bound complex)	<b>C<sub>∞v</sub></b> (effective symmetry class) (large-amplitude motion) Ar · AgBr
	$r_0$	$\text{\AA}$	
	Ag–Br	2.3805(22)	
	Ar...Ag	2.6391(29)	
	$r_s$	$\text{\AA}$	
	Ag–Br	2.38016(11)	
		2.38393(20) <sup>a)</sup>	
	Ar...Ag	2.64567(40)	
		2.63176(80) <sup>a)</sup>	

The complex is linear and rather rigid in the ground vibrational state. The Ar...Ag stretching wavenumber is *ca.* 140 cm<sup>-1</sup>.

<sup>a)</sup> By a double substitution method. Uncertainties were not estimated in the original paper.

Evans, C.J., Gerry, M.C.L.: J. Chem. Phys. **112** (2000) 1321.