

<b>13</b>	<b>ArAuBr</b>	<b>Argon – gold monobromide (1/1)</b>	<b>C<sub>∞v</sub></b>
MW		(weakly bound complex)	(effective symmetry class)
			(large-amplitude motion)
			Ar · AuBr

$r_0$	Å <sup>a)</sup>
Au–Br	2.316(3)
Ar...Au	2.502(5)

The complex is linear and rather rigid in the ground vibrational state, with the Ar...Au stretching wavenumber estimated as *ca.* 200 cm<sup>-1</sup> and the stretching force constant as 65.2 N m<sup>-1</sup>. The Ar...Au bond is weakly covalent in nature.

<sup>a)</sup> Uncertainties were not estimated in the original paper.

Evans, C.J., Rubinoff, D.S., Gerry, M.C.L.: Phys. Chem. Chem. Phys. **2** (2000) 3943.