

# Structure Data of Free Polyatomic Molecules

<b>24</b>	<b>ArCuF</b>	<b>Argon – copper monofluoride (1/1)</b>	<b>C<sub>∞v</sub></b>
MW		(weakly bound complex)	(effective symmetry class)
			(large-amplitude motion)
			Ar · CuF

$r_0$	Å <sup>a)</sup>
Cu–F	1.753(2)
Ar...Cu	2.219(2)

The complex is linear and rather rigid in the ground vibrational state. The Ar...Cu stretching wavenumber is estimated to be *ca.* 200 cm<sup>-1</sup>.

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

Evans, C.J., Gerry, M.C.L.: J. Chem. Phys. **112** (2000) 9363.