

<b>53</b>	<b>AuClKr</b>	<b>Gold monochloride – krypton (1/1)</b>	<b>C<sub>∞v</sub></b>
MW		(weakly bound complex)	(effective symmetry class)
			(large-amplitude motion)
			AuCl · Kr

$r_0$	Å <sup>a)</sup>
Kr...Au	2.5224(18)
Au–Cl	2.2097(36)

$r_s$	Å <sup>b)</sup>
Kr...Au	2.5225(20)
Au–Cl	2.2044(20)

The complex is linear and is relatively rigid in the ground vibrational state. The Kr...Au stretching wavenumber is estimated to be 161 cm<sup>-1</sup> and the stretching force constant to be 93.6 N m<sup>-1</sup>. The Kr...Au bond is weakly covalent.

<sup>a)</sup> Estimated standard errors.

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

Evans, C.J., Lesarri, A., Gerry, M.C.L.: J. Am. Chem. Soc. **122** (2000) 6100.