

<b>4</b>	<b>AgClKr</b>	<b>Silver chloride – krypton (1/1)</b>	<b>C<sub>∞v</sub></b>
MW		(weakly bound complex)	(effective symmetry class)
			(large-amplitude motion)
			AgCl · Kr

$r_0$	Å <sup>a)</sup>
Kr...Ag	2.6456(40)
Ag–Cl	2.2767(63)

$r_s$	Å <sup>a)</sup>
Kr...Ag	2.6425(16)
Ag–Cl	2.2740(34)

$r_{le}$	Å <sup>a) b)</sup>
Kr...Ag	2.64521(73)
Ag–Cl	2.27009(38)

$r_m^{(2)}$	Å <sup>a) c)</sup>
Kr...Ag	2.6412354(32)
Ag–Cl	2.2675722(12)

The Kr...Ag stretching force constant is 28 N m<sup>−1</sup>, the stretching wavenumber is 117 cm<sup>−1</sup>, and the dissociation energy is estimated to be 28 kJ mol<sup>−1</sup>.

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

<sup>b)</sup> Obtained from a least-squares fit using  $\varepsilon = 1.48(23) \text{ u } \text{Å}^2$ .

<sup>c)</sup> Obtained from a least-squares fit using  $c = 0.21310(15) \text{ u}^{1/2} \text{Å}$ ,  $d = -0.36078(51) \text{ u}^{1/2} \text{Å}^2$ .

Reynard, L.M., Evans, C.J., Gerry, M.C.L.: J. Mol. Spectrosc. **206** (2001) 33.