

## Structure Data of Free Polyatomic Molecules

59 MW	<b>CHArO<sup>+</sup></b>	<b>Oxomethylium – argon (1/1)</b> Formylium – argon (1/1) (weakly bound complex)	<b>C<sub>∞v</sub></b> (effective symmetry class) (large-amplitude motion) Ar · H–C <sup>+</sup> =O
	$r_0$	$\theta_0$	
	Ar...H	$\gamma^b$	
	2.157(5)	9.6(5)	

The ionic complex has a linear H-bound form. The intermolecular stretching and bending force constants are 17.0 N m<sup>-1</sup> and 7.95 × 10<sup>-20</sup> N m, respectively.

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

<sup>b</sup>) Bending angle Ar...H–C measured from 180°. Average value.

Ohshima, Y., Sumiyoshi, Y., Endo, Y.: J. Chem. Phys. **106** (1997) 2977.

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