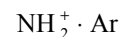
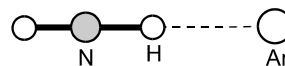


29 IR	ArH_2N^+	Aminylium – argon (1/1) (weakly bound complex)	$\text{C}_{\infty v}$ (effective symmetry class) (large-amplitude motion)
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State	$R_{\text{cm}} [\text{\AA}]^a$	$r(\text{H}\dots\text{Ar}) [\text{\AA}]^a$
$\nu=0$	3.0848(3)	2.0597(3)
$\nu_1=1$	3.0321(6)	2.007(6)
$\nu_3=1$	3.0840(3)	2.0589(3)



The structure was determined from the rotationally resolved IR photodissociation spectrum of the N–H stretch vibrations (ν_1 and ν_3). The structure has a quasilinear H-bound geometry in the $^3\Sigma$ electronic ground state.

The geometry of the aminylium subunit was assumed to be unchanged upon complexation.

^a) Uncertainties were unidentified.

Dopfer, O., Nizkorodov, S.A., Olkhov, R.V., Maier, J.P., Harada, K.: J. Phys. Chem. A **102** (1998) 10017.