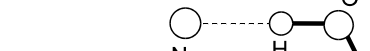


252	H_2NeO^+	Oxoniumyl – neon (1/1) (weakly bound complex)	C_s (effective symmetry class) (large-amplitude motion) $\text{H}_2\text{O}^+ \cdot \text{Ne}$						
IR									
	<table><tr><th>ν_1</th><th>$r(\text{O} \dots \text{Ne}) [\text{\AA}]^{\text{a}}$</th></tr><tr><td>0</td><td>1.815(5)</td></tr><tr><td>1</td><td>1.800(5)</td></tr></table>	ν_1	$r(\text{O} \dots \text{Ne}) [\text{\AA}]^{\text{a}}$	0	1.815(5)	1	1.800(5)		
ν_1	$r(\text{O} \dots \text{Ne}) [\text{\AA}]^{\text{a}}$								
0	1.815(5)								
1	1.800(5)								

The structure of the H-bound complex was determined from the rotationally resolved IR photodissociation spectrum in the vicinity of the O–H stretch vibrations (ν_1 and ν_3). The geometry of the oxoniumyl subunit was assumed to be unchanged upon complexation.

^a) Uncertainties were unidentified, possibly estimated standard errors.

Dopfer, O., Roth, D., Maier, J.P.: J. Chem. Phys. **114** (2001) 7081.