

Structure Data of Free Polyatomic Molecules

217 MW	HKrN_2^+	Diazenylium – krypton (1/1) (weakly bound complex)	$\text{C}_{\infty v}$ (effective symmetry class) (large-amplitude motion) $\text{H-N=N}^+ \cdot \text{Kr}$
	r_0	θ_0	
	$\text{Kr}\dots\text{H}$	γ^{a}	
	\AA	deg	
	1.9475(5)	8.0(30)	

The complex has a linear proton-bound form. The intermolecular stretching force constant and the wavenumber are 50.14 N m^{-1} and 198.7 cm^{-1} , respectively.

^a) Average bending angle from linearity.

Seki, K., Sumiyoshi, Y., Endo, Y.: J. Chem. Phys. **117** (2002) 9750.