

# Vibrational Properties of Hydrogen Astatide, HAt

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Z. Naturforsch. **59a**, 133 – 135 (2004); received January 8, 2003

A number of theoretical studies on the bond characteristics of HAt, the heaviest hydrogen halide, have recently been reported. On the basis of these data the force constant, mean amplitudes of vibration and thermodynamic functions of this molecule have been calculated. Some comparisons with the related lighter hydracids are made.

*Key words:* HAt; Force Constant; Mean Amplitudes of Vibration; Thermodynamic Functions.