

Vibrational Properties of Bismutine, BiH_3

Enrique J. Baran

Centro de Química Inorgánica (CEQUINOR/CONICET, UNLP), Facultad de Ciencias Exactas,
Universidad Nacional de La Plata, C. Correo 962, 1900-La Plata, Argentina

Reprint requests to Prof. Dr. E. J. B.; Fax: (54) 0221 4259485; E-mail: baran@quimica.unlp.edu.ar

Z. Naturforsch. **58a**, 126 – 128 (2003); received January 7, 2003

Structural and vibrational-spectroscopic data of BiH_3 have recently been reported for the first time. On the basis of these data the force constants, mean amplitudes of vibration and thermodynamic functions have been calculated. Some comparisons with the structurally related SbH_3 molecule are made.

Key words: BiH_3 ; SbH_3 ; Force Constants; Mean Amplitudes of Vibration; Bond Properties;
Thermodynamic Functions.