

Vibrational Spectra of the Layered Compound $[(VO_2)_2(4,4\text{-bipy})_{0.5}(4,4'\text{-Hbipy})(PO_4)] \cdot H_2O$

Enrique J. Baran^a and Kwang-Hwa Lii^b

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

^b Department of Chemistry, National Central University, Chungly, Taiwan 320, and Institute of Chemistry, Academia Sinica, Nankang, Taipei, Taiwan 115

Reprint requests to Prof. Dr. E. J. Baran.

E-mail: baran@quimica.unlp.edu.ar

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The infrared and Raman spectra of the title complex were recorded and assignments for the VO_2^+ , PO_4^{3-} and V–O and V–N skeletal vibrations are proposed. The results are of interest in relation to the vibrational-spectroscopic properties of the active site of vanadium haloperoxidases.

Key words: VO_2^+ Complex, Phosphate, IR Spectra, Raman Spectra, Skeletal Vibrations