

Interpretation of the Vibrational Spectra of Polycrystalline Adenine

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Abstract—The infrared and Raman spectra of the tetramer of the adenine N_9H are calculated and analyzed. The vibrational spectra of polycrystalline adenine are interpreted. It is demonstrated that the method for calculating the vibrational spectra of molecular complexes formed by hydrogen bonds can be used for interpreting the vibrational spectra of polyatomic molecules in the solid state.

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