Vibrational study of polyamine copper(II) complexes. Infrared spectra and normal coordinate analysis of mono(diethylenetriamine)copper(II) complex ions

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The results of an investigation of the infrared spectra of mono(diethylenetriamine)copper(II) compounds are reported, with particular reference to the low-energy region. Most assignments are based on the available literature. Assignments of the skeletal normal modes are supported by an approximate normal coordinate analysis, taking into account a modified general valence force field to obtain the frequencies and potential energy distribution. © 1992.