# Spectra and structure of polyamine-copper(II) complexes. Infrared spectrum and normal coordinate calculations of mono(diethylenetriamine) copper(II) nitrate

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The infrared spectrum of mono(diethylenetriamine)copper(II) nitrate has been obtained in the frequency range 4000-80 cm-1. Assignments of fundamental frequencies in the coordination site, as well as in the free and bonded nitrates, were performed regarding the structure of the complex. Also, a normal coordinate analysis based on a simplified model, was carried out in order to distinguish the frequency position of some normal modes, such as the three different ?(CuN) and the two different ?(CuO) modes. © 1993.