

# Infrared spectrum of the bis-(1,10-phenanthroline) Cu(I) and Cu(II) perchlorate complexes

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FT-IR spectra of the title compounds and derivatives were measured in the range 4000-120  $\text{cm}^{-1}$ . A complete experimental spectral assignment has been performed. A simplified normal coordinate treatment orientates some assignment of frequencies in the low energy region. Bands at ca. 420 and 300  $\text{cm}^{-1}$  are ascribed to the  $\nu_{\text{Cu-N}}$  modes. A stability order of the Cu(I) complexes is proposed on the basis of their Cu-N frequency values.