

# Specular reflectance infrared spectra of the macrocycles cyclam and cyclamdione and their Cu( II) complexes deposited onto a smooth copper surface

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An infrared study of the macrocycles cyclam, cyclamdione and its Cu(II) complexes has been performed. The specular reflectance infrared spectrum was recorded and analyzed for the ligands and complexes deposited onto a smooth copper surface. Several spectral modifications resulting from the macrocycle-metal surface interaction are interpreted in terms of molecular structural changes. An orientation of the ligands and complexes onto the metal surface is proposed. © 1997 Elsevier Science B.V.