Synthesis, Characterization and X-ray Crystal Structures of Copper(II), Nickel(II) and Cobalt(II) Complexes with a Tetraderate Schill base Ligand

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2-Hydroxy schill base ligands and their complexes derived from the reaction of derivations of salicylaldehyde with amines have been extensively studied in great details for their selective separations [1], various crystallographic features [2], and strong role in bioinorganic chemistry and redox enzyme systems [3] and catalyst activity [4]. Understanding of the coordination chemistry of these complexes, which is affected by the strain of the ligands [5], have important role on the above properties.

In this work, Cu(II), Ni(II) and Co(II) complexes of the tetraderate Schill base ligand have been synthesized and characterized by IR, elemental analysis, electronic spectra, conductivity measurements and X-ray analysis.

REFERENCES