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Synthesis and Characterization of new Schiff Bases Ligand and Their Complexes with Some Transition Metals

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Abstract: This study is concerned with the synthesis and coordination ligand(3-(2-(Z[{(2-hydroxy phenyl)methylidene]amino)ethyl-endo)-7-ol . The ligand was characterized by FT-IR , proton NMR , Uv-Vis and elemental analysis studies. Complexes of Co(II) , Ni(II) andCu(II) chloride were prepared ,these complexes were characterized by FT-IR , Uv-Vis , elemental analysis , conductance and magnetic susceptibility studies. FT-IR spectra and other studies showed that the ligand acting as bidentate and forms complexes through (-OH) and (-C=N- , Nitrogen atom of azomethen) groups so Suggest $[M(L)_2 Cl_2]$ (octahedral) composition of the coordination compounds.

Key words: Schiff base, Serotonin , 2-hydroxy benzaldehyde.

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