

## Synthesis and Characterization of New Mannich Base of 1-[(2-Hydroxy-Phenyl)-Phenyl Amino-Methyl]-Pyrrole-2-5-dione (L) with some Transition Metal Complexes

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**Abstract:** The present study deals with the structure of some metal complexes of Co(II), Cu(II) and Zn(II) with a new mannich base 1-[(2-hydroxy-phenyl)-phenyl amino-methyl]-pyrrole-2-5-dione (L) which is commonly known as N-[(2-hydroxy-phenyl)-phenyl amino-methyl]succinimide (L). The ligand and the complexes have been characterized by various physical-chemical techniques such as elemental analysis, molar conductance, magnetic susceptibility, infra-red, ultra-violet,  $^1\text{H}$  &  $^{13}\text{C}$  NMR and TGA/DTA. The corresponds patterns were recorded and discussed.

**Keywords:** 1-[(2-hydroxy-phenyl)-phenyl amino-methyl]-pyrrole-2-5-dione (L), Metal complexes, Thermal analysis,  $^1\text{H}$  &  $^{13}\text{C}$  NMR.

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