

Synthesis of a new schiff base Ligand with imidazole group

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The complexation of transition metal ions with polydentate Schiff base ligands is a well studied area of research in coordination chemistry. Imidazole is of considerable interest as a ligand and its presence in many biological systems provides a potential binding site for metal ions. Transition metal complexes with Schiff base ligands containing N and O donor atoms are effectively used as stereospecific catalysts for oxidation, reduction, hydrolysis and other organic/inorganic transformations. In View of these facts, we have synthesized a new Schiff base ligand and its metal complexes to evaluate for their potent applications.

Scheme:

