



Pd (II) Complexes of New Tetra Dentate Schiff Base Ligands: Synthesis, Spectral Characterization and Catalytic Activity

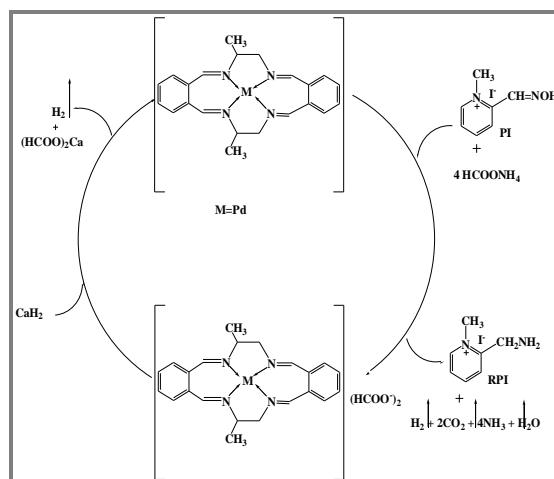
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ABSTRACT

New Schiff base ligands containing N and O donor atoms are prepared by the condensation of ortho-phthalaldehyde with different diamines and amino acids. Further, these ligands on reaction with Pd(II) solution produced yellow crystalline complexes. Both tetra dentate Schiff base ligands and their metal complex have been well characterized by the analytical and IR, ¹H NMR, ¹³C NMR and Mass spectral data. All these complexes are studied for their catalytic activity on the reduction of prolixime iodide drug and the reaction mechanism also proposed.

Graphical Abstract



Catalytic cycle of Schiff base Pd(II) complexes in the reduction of PI.

Keywords: Schiff bases, Pd(II) complexes, Spectral characterization, Catalytic activity.