

عنوان مقاله:

Water soluble ionic Ni2L2(OH)(Cl) and Cu2L2(OAC)2. 4H2O Schiff base Complexes (L= 5-methyl 1methylbenzimidazoliumsalicylimine ethylene N, N- dimethyl amine- chloride): Synthesis and Characterization

محل انتشار:

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خلاصه مقاله:

During the last decades the Schiff base chelating ligands or azomethine compounds that are synthesized by reaction of a primary amine and a carbonyl group (aldehyde or ketone) played central role in development of coordination chemistry [1]. They can bind to metal ions and form metal complexes with different properties [2]. Water soluble Schiff base ligands and complexes are rare in literature. Thus in this study we report the synthesis and characterization of two new ionic metal complexes of Ni2+ and Cu2+ containing the Schiff base ligand of 5-methyl 1methylbenzimidazoliumsalicylimine ethylene N, N- dimethyl amine- chloride. By reaction of the N-methyl benzimidazole andchloromethylsalicylaldehyde and then by KPF6, the benzimidazolium salicylaldehydehexafluorophosphate was synthesized. It was reacted by N, N-dimethyl ethylene diamine to synthesis of three dentate Schiff base ligand (L). The reaction of L with Cu(OAC)2 and NiCl2.6H2O resulted to synthesis of the Cu2L2(OAC)2.4H2O and Ni2L2(OH)(CI). The Schiff base ligand and related complexes were characterized via .(different analytical and spectral methods (CHN, FT-IR, UV-vis

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