

Synthesis, identification and investigation of group 12 metal complexes based on polydentate ligands

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In this research project, a new complex of nickel chloride and cobalt chloride was prepared with the divalent ligand of {1,3-bis- pyridin-2-yl,} urea, and it was identified using spectral methods (FT-IR), melting point, and X-ray diffraction [1]. Based on the obtained structures and the examination of the resulting spectral data and the physical properties of the compound, it is proof of the formation of a triclinic and monoclinic complex of nickel and cobalt [2]. In the proposed structure of the complex, cobalt and nickel atoms have a coordination number of six and an octahedral structure. At the end, Sam and Idex complex and metal salt of each of the synthesized complexes and related metal salt were analyzed [3].

Keywords: Aminopyridine, Nickel Complex, Spectral Identification, Polydentate ligand, Urea ligand

References

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