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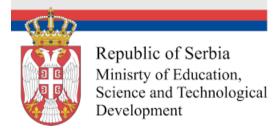
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IC PP 04

Synthesis and characterization of octahedral Ni(II) complex with condensation product of 2-acetylpyridine and Girard's P reagent

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The ligand ([**HL**]Cl) was synthetized by the reaction of 2-acetylpyridine and Girard's P reagent in molar ratio 1:1 in ethanol. In the reaction of ligand ([**HL**]Cl), nickel(II) tetrafluoroborate hexahydrate and sodium azide [Ni(**HL**)(N_3)₃] complex was obtained. The Ni(II) ion has a distorted octahedral coordination geometry. The tridentate ligand (**HL**) is coordinated to the nickel ion with an NNO set of donor atoms forming two five-membered chelate rings and the other three coordination sites are supplemented by azido ligands. The ligand (**HL**) and the [Ni(**HL**)(N_3)₃] complex were characterized by elemental analysis, IR and UV/Vis spectroscopy and structure of the complex was defined by X-ray analysis.

Figure 1. Synthesis of [Ni**HL**(N₃)₃] complex.

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