SYNTHESIS AND METAL COMPLEXATION OF A SCHIFF BASE DERIVATIVE OF 2-AMINO-4-(P-TOLYL)THIAZOLE.

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Thiazole Schiff-bases and their metal complexes have shown good biological activity. In this work, Schiff base have been synthesized, from the reaction of 4-N,N-dimethylbenzaldehyde and 2-amino-4-(p-tolyl)thiazole. After this compound was used as a complexing agent for Cu(II), Ni(II), and Co(II). The authenticity of the ligand and complexes was established by elemental analyses, UV-VIS, FT-IR, 'H-NMR, 13C-NMR, magnetic susceptibility measurements, TGA, and DTA. The nickel and cobalt compounds have square-planer and distortion octahedral structure while the copper compound has a tetrahedral structure.

Figure 1. Schiff base Derivative of 2-amino-4-(p-tolyl) thiazole, L

Figure 2. Suggested Structure of the Distortion Octahedral, Tetrahedral, and Square-