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SYNTHESIS AND CHARACTERIZATION OF NEW LIGANDS FROM AZO–HETEROCYCLES AND COMPLEXATION WITH (NI^{2+})

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ABSTRACT

A new three ligands from azo- heterocyclic compounds were synthesized in this study. The synthesized ligands and their complexes were confirmed by spectral studies such as{FT.IR–spectra , ^{1}H.NMR-spectra , UV.Vis –spectra , Atomic Absorption, (C.H.N)–analysis}, and physical studies such as { molar conductance., solubility in different solvents, measurement of melting point }, analytical studies such as stoichiometric of complexes, determination of optimal conditions of complexes. It has been found that the three ligands behave as tridentate donor ligands forming chelates with (1:1) (Ni: ligand) stoichiometry.

KEYWORDS: Donor, Form, Melt