

Turkish Journal of Chemistry


Turkish Journal
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Chemistry

The Synthesis of Substituted 4,4'-Thiobis(Aminophenylglyoxime) and Their Polymeric Metal Complexes with Cu(II), Ni(II) and Co(II) Salts

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Abstract: 4,4'-Bis(chloroacetyl)diphenyl thioether (HL) was synthesized from chloroacetyl chloride and diphenyl thioether in the presence of AlCl₃ as catalyst in a Friedel-Crafts reaction. Subsequently, its keto oxime (H₂L) and glyoxime (H₄L) derivatives were also prepared. Then 3 new substituted 4,4'-thiobis(aminophenylglyoxime) (H₄L¹⁻³) were synthesized from 4,4'-thiobis(chlorophenylglyoxime) and the corresponding amines. The Ni(II), Cu(II) and Co(II) complexes of these ligands were prepared. The structures of these ligands and their complexes were identified by FT-IR, ¹H NMR and ICP-AES spectral data, elemental analyses and magnetic measurements.

Key Words: Glyoxime, Transition metal complexes

Turk. J. Chem., **28**, (2004), 173-180.

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