

## ÖZET

### SUBSTITUTE SALEN KOMPLEKSLERİNİN SENTEZİ

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Bu çalışmada çıkış maddesi olarak 2,4-dihidroksi benzaldehit kullanıldı. 2,4-dihidroksi benzaldehit ile 1,2-fenilendiaminden reaksiyonundan; N,N'-Bis(2,4-dihidroksi benziliden)-fenilen-1,2-diamin sentezlendi. N,N'-Bis(2,4-dihidroksi benziliden)-fenilen-1,2-diamin ile N-(1-Pirenil) kloroasetamit'ten yeni bir Schiff baz ligandı sentezlendi.

Schiff Bazının Ni(II), Cu(II), Co(II), Zn(II) ve Hg(II) asetatları ile beş metal kompleksi sentezlendi. Sentezlenen Sekiz yeni bileşiğin yapıları; Magnetik Susseptibilite, Molar İletkenlik, Elementel Analiz, FT-IR, <sup>1</sup>H-NMR, UV-Vis, Floresans Spektroskopisi ve TGA yöntemleriyle aydınlatılmaya çalışıldı..

*Anahtar sözcükler:* Schiff bazı, Floresans spektroskopisi, 1-aminopren , N-(1-prenil)-2-kloro asetamit, Metal kompleksler.

## SUMMARY

### SYNTHESIS of SUBSTITUE SALEN COMPLEXES

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In this study 2,4-dihydroxy benzaldehyde was used as a starting material. N,N'-Bis(2,4-dihydroxybenzylidene)-phenylene-1,2-diamine was synthesized by using 2,4-dihydroxy benzaldehyde and 1,2-phenylenediamine. A new Schiff base ligand was synthesized by reaction with N,N'-Bis(2,4-dihydroxybenzylidene)-phenylene-1,2-diamine and N-(1-pyrenyl) chloroacetamide.

The complexes of Schiff base were synthesized by Ni(II), Cu(II), Co(II), Zn(II) and Hg(II) acetat salts. As a conclusion of above work, new one ligand and their complexes were characterized by FT-IR, <sup>1</sup>H NMR, UV-Vis, TGA ve Magnetic Susceptibility, fluorescence spectroscopy, elementary analysis.

*Keywords:* Schiffbase, Fluorescencespektroskopy, 1-aminopyrene , N-(1-pyrenyl)-2-chloro acetamide, Metal Complexes.