

## ÖZET

### DEĞİŞİK SUBSTİTUE AMİN GRUPLARI BULUNDURAN FARKLI 2-NAFTİLGİOKSİMLERİN SENTEZİ VE METAL KOMPLEKSLERİNİN İNCELENMESİ

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Bu çalışmada çıkış maddesi olarak, 2-Asetilnaftalin kullanıldı. 2-Asetiinaftalin<sup>3</sup> sodyum etoksitli ortamda n-bütülnitrit ile nitrozolanarak, isonitroso-2-asetilnaftalin elde edildi. İsonitroso-2-asetilnaftalin, bazik ortamda, hidroksilamin hidroklorür ile reaksiyon vererek, 2-naftilgliksimin anti formu sentezlendi. Elde edilen 2-naftilgliksim, kloroform içinde, 20-25°C'de klorlanarak, 2-naftilklorogliksim izole edildi. 2-naftilklorogliksimin değişik aromatik aminlerle reaksiyonu sonunda birer dioksım olan, dört adet substitue amino-2-naftilgliksim'lerin sentezi ve diaminlerle reaksiyonu sonunda birer tetraoksım olan, dört adet aril-bis(substitue amino-2-naftilgliksim)'lerin sentezi yapıldı. Ligandların alkollü çözeltilerine, suda çözülmüş olan, Ni(II), Cu(II) ve Co(II)'nin klorlu tuzları ilave edilerek, substitue amino-2-naftil-gliksim'lerin bi moleküler kompleksleri ve aril-bis(substitue amino-2-naftilgliksim)'lerin polimerik kompleksleri elde edildi. Sonuç olarak, sekiz ligand ve yirmidört kompleks izole edildi. Bunların yapılan; \*H NMR, İR, A.A.S. ve elementel analiz sonuçlarına göre aydınlatıldı.

Anahtar Kelimeler: vic-dioksım, tetraoksım, gliksim, metal kompleks, spektroskopik yapı tayini.

## ABSTRACT

### SYNTHESIS OF DIFFERENT 2-NAPHTLYGLYOXİMES WITH VARIOUS SUBSTITUTED AMİNES AND INVESTIGATION OF THEIR METAL COMPLEXES

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In this work 2-acetylnaphtalin was used as a starting material. Isonitroso- 2-acetylnaphtalin has been isolated through the nitrosation reaction between 2-acetylnaphtalin and butyl nitrite in sodium ethoxide medium. Similarly 2-naphtlyglyoxime has been synthesized by the reaction of isonitroso- 2-acetylnaphtalin and hydroxylamine hydrochloride in alkaline medium. Finally powdered anti 2-naphtlyglyoxime was suspended in dry chloroform at 20-25°C and upon treatment with Cl<sub>2</sub>, 2-naphtlychloroglyoxime was obtained. By reacting 2-naphtlychloroglyoxime with various aromatic amines, nine different substituted amino-2-naphtlyglyoximes were synthesized, each of which is a dioxime, and by reacting 2-naphtlyglyoxime with aromatic diamines nine separate aryl-bis(substituted amino-2-naphtlyglyoximes) were synthesized each of which were tetraoximes. The polymeric complexes of aryl-bis(substituted amino-2-naphtlyglyoxime) and complexes of substituted amino-2-naphtlyglyoxime were prepared by adding aqueous solutions of Ni(II), Cu(II) and Co(II) into alcoholic solutions of the ligands. As a conclusion of above work 8 separate ligands and 24 complexes were isolated and their structures characters were determined employing by \*H NMR, IR, AAS and elemental analytical technics.

Key Words: vic-dioximes, tetraoximes, glyoximes, metalcomplexes, spectroscopic identification.