



5th NATIONAL
**INORGANIC
CHEMISTRY
CONGRESS**

ABSTRACT BOOK
APRIL 22-25, 2015

V. ULUSAL
**ANORGANİK
KİMYA
KONGRESİ**

ÖZET KİTABI
22-25 NİSAN 2015

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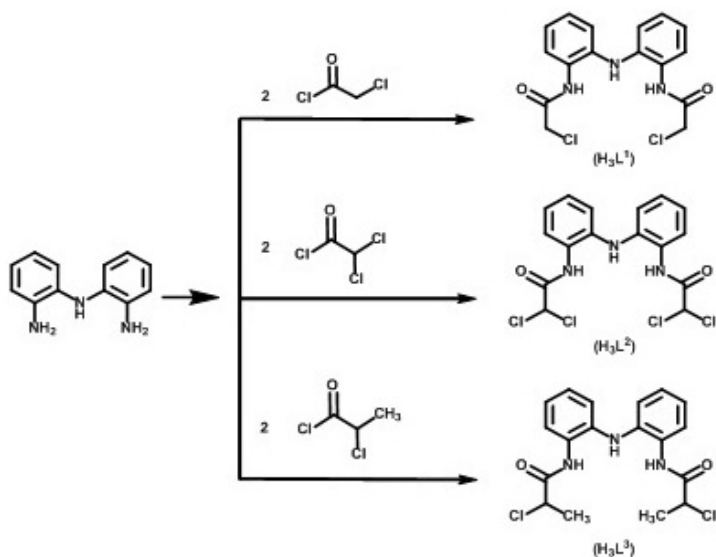
Synthesis and Characterization of New Potential Redox Active Compounds Derivated from Acyl Chlorides

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There *tris*(amidate) compounds, *N,N'*-(2,2'-azanediyl-bis(2,1-phenylene)-bis(2-chloroacetamide)), H_3L^1 , *N,N'*-(2,2'-azanediyl-bis(2,1-phenylene)-bis(2,2-dichloroacetamide)), H_3L^2 , *N,N'*-(2,2'-azanediyl-bis(2,1-phenylene)-bis(2-chloropropanamide)), H_3L^3 , have been synthesized in high yield by acylating *bis*(2-aminophenyl)amine with acyl chlorides (R: Chloroacetyl chloride, dichloroacetyl chloride and 2-chloropropanoyl chloride) in 1:2 molar ratio were carried out in acetonitrile solution (Scheme 1). Characterization of the prepared compounds were accomplished by spectroscopic ¹H NMR, ¹³C NMR, COSY, HMQC, LCMS and FT-IR techniques. The goal of developing the compound system that would incorporate two *N*-amidate donors and one amido donor.



Scheme 1

Acknowledgement: This study is a part of Ayşe AKGÜN's MSc. thesis.

Keywords: Ligand, Acyl chloride, Tris(amidate) compound, Synthesis.