

RESEARCHSPACE@AUCKLAND

http://researchspace.auckland.ac.nz

ResearchSpace@Auckland

Copyright Statement

The digital copy of this thesis is protected by the Copyright Act 1994 (New Zealand).

This thesis may be consulted by you, provided you comply with the provisions of the Act and the following conditions of use:

- Any use you make of these documents or images must be for research or private study purposes only, and you may not make them available to any other person.
- Authors control the copyright of their thesis. You will recognise the author's right to be identified as the author of this thesis, and due acknowledgement will be made to the author where appropriate.
- You will obtain the author's permission before publishing any material from their thesis.

To request permissions please use the Feedback form on our webpage. http://researchspace.auckland.ac.nz/feedback

General copyright and disclaimer

In addition to the above conditions, authors give their consent for the digital copy of their work to be used subject to the conditions specified on the Library Thesis Consent Form.

A STUDY OF COORDINATION COMPOUNDS OF NICKEL

WITH SOME DIAMINES.

A THESIS PRESENTED TO THE UNIVERSITY OF NEW ZEALAND FOR THE DEGREE OF DOCTOR OF PHILOSOPHY.

> November, 1954 N. F. CURTIS

TABLE OF CONTENTS

CHAPTI	<u>GR</u>	PAGE
1.	Introduction	1
2.	Electronic Absorption Spectra	26
3.	Magnetic Susceptibility Measurements	31
4.	Preparation of Diamines	37
5.	Nickel bis Isobutylene Diamine Salts	40
6.	Nickel tris Isobutylene Diamine Salts	67
7.	Stability Constants	82
8.	Nickel mon Isobutylene Diamine Salts	92
-	Final Summary of Nickel Isobutylene	
	Diamine System	97
9.	Nickel Schiffs Base Coordination	
	Compounds	102
10.	Isotopic Exchange Experiments	116