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SOLVENT EXTRACTION STUDIES OF SOME TRANSITION AND LANTHANIDE METAL IONS USING ORGANOPHOSPHONATES

THESIS

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Presented by

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قالوا

سُبْحَانَكَ لَا إِلَهَ إِلَّا أَنْتَ
أَنْتَ أَنْتَ الْعَالِمُ الْحَكِيمُ
صَدَقَ اللَّهُ الْعَظِيمُ

سورة البقرة (الآية ٢٢٢)



**SOLVENT EXTRACTION STUDIES OF SOME TRANSITION
AND LANTHANIDE METAL IONS USING
ORGANOPHOSPHONATES**

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TO MY PARENTS

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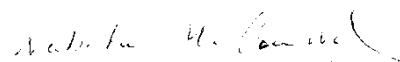
N O T E

Beside the work carried out in this thesis, the student has attended post-graduate courses for one year in analytical and inorganic chemistry including the following topics:

1. Nuclear and radiation chemistry.
2. Inorganic reaction mechanism.
3. Advanced separation techniques.
4. Advanced electrochemistry.
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7. Electrochemical methods of analysis.
8. Organometallic chemistry.
9. Group theory and its applications.
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CONTENTS

	<u>Page</u>
CHAPTER I : INTRODUCTION	1
Analytical applications of the solvent extraction of metal chelate	2
I.1 Solubility-Extractability	2
I.2 Mechanism of the extraction	3
I.2.a Distribution of simple molecules	3
I.2.b Extraction by compound formation	4
I.2.c Extraction by solvation	4
I.2.d Extraction by ion pair formation	5
I.3. Organophosphorus compounds	5
I.3.a Extraction by acidic organophosphorus compounds.....	6
I.3.b Interaction of the acidic organophosphorus compounds	7
I.4. Extraction of metal ions by dialkyl phosphorus acids.....	9
I.5. Organic-phase metal complexes with monobasic dialkyl phosphate.....	10
(a) Complex at low organic loading	10
(b) Complex at saturation.....	13
(c) Mixed complexes.....	13
(d) Solvated complexes	14
I.6. Extraction by Organophosphonates	14
 CHAPTER II: EXPERIMENTAL	 22
2.1. Chemicals and reagents	22
2.2. The organic solutions	22
2.3. The aqueous solutions.....	23
2.3.1 Europium (III) solution	23

	<u>Page</u>
2.3.2 Praseodymium (III) solution	23
2.3.3 Erbium (III) solution	23
2.3.4 Cobalt (II) solution	24
2.4. Radioactive tracers	24
2.4.1 Radioactive cobalt Co-60	24
2.4.2 Radioactive Europium Eu-(152+154)	25
2.5. General instrumentation	27
2.6. Methods of Analysis	29
2.6.1 Radioactive method of analysis	30
2.6.2 Spectrophotometric method of analysis	30
2.6.2.1 Spectrophotometric determination of Eu(III), Pr(III) and Er(III)	30
2.6.2.2 Spectrophotometric determination of Co(II).	31
2.7. partition Experiments	34
2.7.1 Determination of the distribution ratio, "D"	34
2.8. Theoretical Concepts	36
2.8.1 Equilibrium constant of a chemical reaction	36
2.8.2 Equilibria involving chelating agents.....	38
2.8.3 Temperature and Equilibria	39
2.8.4 Thermodynamic stability of complexes.....	41
CHAPTER III: RESULTS AND DISCUSSION	44
3.1. Results of Radioactive Measurements.....	45
3.1.1 Extraction of Radioactive Eu(III) by HEBOP.....	45
3.1.1.a Effect of hydrogen ion concentration.....	45
3.1.1.b Effect of the extractant concentration.....	45
3.1.2 Extraction of Radioactive Eu(III) by HEBP	56
3.1.2.a Effect of hydrogen ion concentration.....	56
3.1.2.b Effect of the extractant concentration.....	56

LIST OF TABLES

	<u>Page</u>
Table (1) Some characteristics of the solvents used	22
Table (2) Effect of [HEBOP] concentration on extraction of radioactive Eu(III) in different solvents at 20°C.	47
Table (3) Effect of [HEBOP] concentration on extraction of radioactive Eu(III) in different solvents at 25°C.	50
Table (4) Effect of [HEBOP] concentration on extraction of radioactive Eu(III) in different solvents at 30°C.	51
Table (5) Effect of [HEBOP] concentration on extraction of radioactive Eu(III) in different solvents at 40°C.	52
Table (6) Values of log K at different temperatures for the extraction of radioactive Eu(III) by HEBOP.	55
Table (7) Thermodynamic parameters for the formation of $\text{Eu}(\text{H}(\text{EBOP})_2)_3$ chelate in different solvents at 25°C.	55
Table (8) Effect of [HEBP] concentration on extraction of radioactive Eu(III) in n-hexane at different temperatures.....	60
Table (9) Values of log K at different temperatures for the extraction of radioactive Eu(III) by [HEBP] in n- hexane	62
Table (10) Thermodynamic parameters for the formation of $\text{Eu}(\text{H}(\text{EBP})_2)_3$ chelate in n-hexane at 25°C.	62
Table (11) Effect of (HEBOP) concentration on extraction of radioactive Co(II) in different solvents at 20°C.	70

	<u>Page</u>
Table (12) <i>Effect of [HEBOP] concentration on extraction of radioactive Co(II) in different solvents at 25°C.....</i>	71
Table (13) <i>Effect of [HEBOP] concentration on extraction of radioactive Co(II) in different solvents at 30°C.....</i>	72
Table (14) <i>Effect of [HEBOP] concentration on extraction of radioactive Co(II) in different solvents at 40°C.....</i>	73
Table (15) <i>Values of log K at different temperatures for the extraction of radioactive Co(II) by HEBOP.....</i>	74
Table (16) <i>Thermodynamic parameters for the formation of Co(H(EBOP)₂)₂ chelate in different solvents at 25°C.</i>	74
Table (17) <i>Effect of [HEBP] concentration on extraction of Eu³⁺, Pr³⁺ and Er³⁺ in n-hexane.....</i>	80
Table (18) <i>Effect of [HEBP] concentration on extraction of Eu³⁺ in different solvents.....</i>	83-84
Table (19) <i>Values of log K for the extraction of Eu³⁺, Pr³⁺ and Er³⁺ by HEBP in n-hexane and at 25°C.</i>	90
Table (20) <i>Values of log K for the extraction of Eu³⁺ by HEBP in different solvents and at 25°C.</i>	90
Table (21) <i>Effect of [HEBP] concentration of Co²⁺ in different solvents.....</i>	93

LIST OF FIGURES

	Page
Fig. (1) γ -Spectrum of the locally prepared Co-60 radioactive nuclide	26
Fig. (2) γ -Spectrum of the locally prepared Europium-(152+154) radioactive nuclide	28
Fig. (3) Calibration curve of Eu(III) by Arsenazo (III) at 660 nm.	32
Fig. (4) Calibration curve of Co(II) by nitroso-R-salt at 415 nm.	33
Fig. (5) Effect of pH on extraction of radioactive Eu(III) by HEBOP.	46
Fig. (6) Effect of [HEBOP] concentration on extraction of radioactive Eu(III) in different solvents at 20°C.	48
Fig. (7) Variation of log K versus the reciprocal absolute temperature (1/T) for the formation of $\text{Eu}[\text{H}(\text{EBOP})_2]_3$ chelate in different solvents.....	54
Fig. (8) Effect of pH on extraction of radioactive Eu(III) by HEBP	59
Fig. (9) Effect of [HEBP] concentration on extraction of radioactive Eu(III) in n-hexane and at different temperatures	61
Fig. (10) Variation of log K versus the reciprocal absolute temperature (1/T) for the formation of $\text{Eu}(\text{H}(\text{EBP})_2)_3$ chelate in n-hexane.....	63
Fig. (11) Effect of pH on extraction of radioactive Co(II) by HEBOP	65

	<u>Page</u>
Fig. (12) Effect of [HEBOP] concentration on extraction of radioactive Co(II) in different solvents at 20°C.....	66
Fig. (13) Effect of [HEBOP] concentration on extraction of radioactive Co(II) in n-hexane and at 20°, 25°, 30° and 40°C.	75
Fig. (14) Variation of log K versus the reciprocal absolute temperature (1/T) for the formation of $\text{Co}[\text{H}(\text{EBOP})_2]_2$ chelate in different solvents.	76
Fig. (15) Effect of pH on extraction of Pr^{3+} , Eu^{3+} and Er^{3+} by HEBP	78
Fig. (16) Effect of [HEBP] concentration on the extraction of Pr^{3+} , Eu^{3+} and Er^{3+} in n-hexane.....	79
Fig. (17) Effect of [HEBP] concentration on the extraction of Eu^{3+} in different solvents.....	82
Fig. (18) Effect of nitrate concentration on extraction of Eu^{3+} by HEBP in n-hexane.....	85
Fig. (19) IR Spectra of the solid complexes of $[\text{Ln}-\text{H}(\text{EBP})_2]_2 \cdot \text{NO}_3$ where Ln is Eu^{3+} , Pr^{3+} or Er^{3+}	86
Fig. (20) Effect of pH on extraction of Co(II) by HEBP.....	94
Fig. (21) Effect of [HEBP] concentration on extraction of Co(II) in different solvents.....	95

AIM OF THE WORK