

Contents

	Page
Abstract	(3)
Acknowledgment	(5)
Contents	(6)
List of Tables	(8)
List of Figures	(10)
Chapter	
1 Introduction	1
Introduction	1
Literature Review	2
Objectives	36
Possible Achievements	36
Contents of Research	36
2 Experimentation	37
Equipment	37
Instruments	37
Chemical and Reagents	38
Experimental Procedure	38
- Preparation of zeolites	38
- Preparation of Catalysts	41
- Test Procedure and Test Conditions	44
3 Results and Discussion	48
3.1 NaY Synthetic	48
3.2 Preparation of USY, REHY and REY Zeolites	50
3.3 Preparation of catalysts	56
3.4 Evaluation of the performance of catalysts	58

4 Conclusions	73
Bibliography	75
Appendix	
A. Preparation of zeolites and catalysts	79
B. Diffraction Analysis	81
C. Acid digestion	89
D. Instrumental Methods for Cracking Catalyst	90
E. Experimental data	106
Vitae	110