CONTENTS

SUMMARY .... i - x

PART ONE - ANALYSIS OF SEED OILS

Introduction

CHAPTER - 1: COMPONENT FATTY ACIDS OF MINOR SEED OILS

Theoretical .... 1
Discussion .... 6
Experimental .... 11

CHAPTER - 2: MICROBIAL ANALYSIS OF DEFATTED SEED OILS

Theoretical .... 14
Discussion .... 15
Experimental Procedures .... 16
References .... 20

PART TWO - SYNTHESIS OF FATTY ACID DERIVATIVES

Introduction

CHAPTER - 3: PREPARATION OF LONG CHAIN FATTY AZIRIDINES AND AZIRINES

Theoretical .... 25
Discussion .... 30

CHAPTER - 4: PREPARATION OF -BUTYROLACTONES AND THIOLACTONES

Theoretical .... 46
Discussion .... 51

CHAPTER - 5: PREPARATION OF CYCLIC PHOSPHATE DERIVATIVES

Theoretical .... 63
Discussion .... 67
Experimental .... 76
References .... 104
Publication and Presentation .... 113