

**USES OF ACETYLENE DICARBOXYLIC  
ESTER IN THE SYNTHESIS OF SOME  
HETEROCYCLIC NITROGEN  
COMPOUNDS**

A Thesis submitted  
by

*Manal M. El-Shahawi*  
(B.Sc. with honours)

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M. M

In partial fulfillment of the requirements

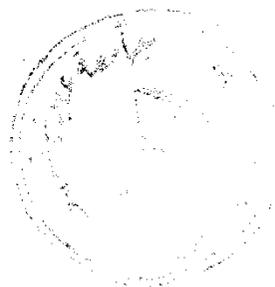
for

*M.Sc. Degree*

to

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بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

﴿قَالُوا سُبْحَانَكَ لَا عِلْمَ لَنَا إِلَّا مَا عَلَّمْتَنَا﴾

﴿إِنَّكَ أَنْتَ الْعَلِيمُ الْحَكِيمُ﴾

صَدَقَ اللَّهُ الْعَظِيمَ

(سورة البقرة - ٣٢)



## CONTENTS

Subject	Page
1-LIST OF FIGURES -----	
2-ACKNOWLEDGMENT -----	
3-SUMMARY -----	i
4-INTRODUCTION -----	
I-Furopyridazine -----	1
II-Pyrrolopyridazine -----	10
III-Pyridazinopyridazine -----	24
5-DISCUSSION OF RESULTS -----	37
6-EXPERIMENTAL -----	94
7-REFERENCES -----	109
ARABIC SUMMARY	





12-The mass spectrum of 3,4,5-triphenyl-8-oxo(7H)pyridazino[4,5-c]pyridazine. . . . .	<b>P.</b> 75
13-The mass spectrum of 3,4-diphenyl-5(N-phenyl)formamedo-pyridazine. . . . .	78
14-The mass spectrum of 3,4,5,5-tetraphenyl-7-oxofuro[3,4-c]pyridazine. . . . .	85
15- The mass spectrum of 3,4,7,7-tetraphenyl-5-oxofuro[3,4-c]pyridazine. . . . .	88
16- The mass spectrum of 3,4-(diphenyl hydroxymethyl)-5,6-diphenylpyridazine. . . . .	91

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