



شبكة المعلومات الجامعية

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ





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شبكة المعلومات الجامعية

التوثيق الالكتروني والميكرو فيلم

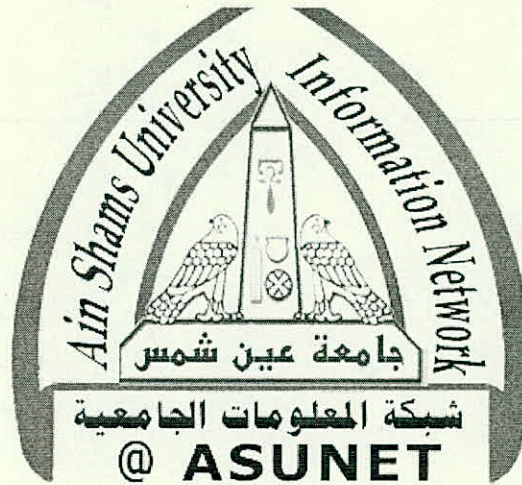


# جامعة عين شمس

التوثيق الالكتروني والميكرو فيلم

قسم

نقسم بالله العظيم أن المادة التي تم توثيقها وتسجيلها  
على هذه الأفلام قد اعدت دون أية تغيرات



يجب أن

تحفظ هذه الأفلام بعيداً عن الغبار

في درجة حرارة من 15 – 20 مئوية ورطوبة نسبية من 20-40 %

To be kept away from dust in dry cool place of  
15 – 25c and relative humidity 20-40 %



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# بعض الوثائق الأصلية تالفة





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بالرسالة صفحات

لم ترد بالأصل

**STUDY OF THE REACTIONS  
BETWEEN  $\alpha,\beta$ - UNSATURATED  
ANHYDRIDES WITH DIFFERENT AMINES**

*A Thesis*  
**Submitted For  
The Degree of M.Sc.**

*In*  
**Chemistry**

*By*  
**EMAN MANSOUR MOHAMED ABASS**

**B.Sc. Chemistry**

**Chemistry Department  
Faculty of Women for  
Arts, Science and Education,  
Ain Shams University**

B  
VYVC

1999

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

﴿وَعَلَّمَكَ مَا لَمْ تَكُنْ تَعْلَمُ وَكَانَ  
فَضْلُ اللَّهِ عَلَيْكَ عَظِيمًا﴾

صدق الله العظيم

النساء "۱۱۳"

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Journal of Internal Medicine 247: 111–117



*Dedicated*  
*To*

*"My Dear Parents"*

1. The first part of the document is a list of names and addresses of the members of the committee.

2. The second part of the document is a list of names and addresses of the members of the committee.

3. The third part of the document is a list of names and addresses of the members of the committee.

4. The fourth part of the document is a list of names and addresses of the members of the committee.

## **QUALIFICATION**

**Name** : Eman Mansour Mohamed Abass

**Scientific Degree** : B.Sc.

**Department** : Chemistry

**Faculty** : Faculty of Women for Arts, Science  
and Education .

**University** : Ain Shams University

**Graduation Year** : 1995

**M.Sc. Graduation Year** : 1999





# Note

Beside the work carried out in this thesis, the candidate attended post-graduate courses for one year in organic chemistry, covering the following topics:

- ◆ Instrumental Analysis.
- ◆ Spectroscopy.
- ◆ Natural products.
- ◆ Heterocyclic Chemistry
- ◆ Photochemistry.
- ◆ Quantum Chemistry
- ◆ Thermodynamics.
- ◆ Chem. Kinetics & Catalysis.
- ◆ Special Topics (Organometallic).
- ◆ Advanced Reaction Mechanisms .
- ◆ English language

She passed successfully a written examination in these topics.

*Prof. Essam M. Ezzo*

*/ - . M . 1720*

**Head of Chemistry Department**

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## ABSTRACT

The present work deals with the condensation of  $\gamma$ -phenylitaconic anhydride and its p-methoxy derivative with hydrazines and amino compounds. The condensation reaction led to the formation of  $\gamma$ -phenylitaconic hydrazides,  $\gamma$ -phenylitaconamic acids,  $\gamma$ -phenylitaconimides and their derivatives.

### Key Words :

$\gamma$ -Phenylitaconic anhydride,  $\gamma$ -(p-Methoxyphenyl)itaconic anhydride, N-Substituted  $\gamma$ -phenylitaconamic acid, N-Substituted  $\gamma$ -(p-methoxyphenyl)itaconamic acid,  $\gamma$ -Phenylitaconic hydrazide, N-Substituted  $\gamma$ -phenylitaconimide, N-Substituted  $\gamma$ -(p-methoxyphenyl)itaconimide, N-(n-Butyl)- $\beta$ -carboxy- $\gamma$ -(n-butylamino)- $\gamma$ -phenylbutyramide, Intermolecular Nucleophilic Substitution, Intramolecular Nucleophilic Substitution.

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