

## SYNTHESIS, CHARACTERIZATION AND ANTIMICROBIAL ACTIVITY EVALUATION OF NEW CYCLIC IMIDES CONTAINING 1,3,4-THIADIAZOLE AND 1,3,4-OXADIAZOLE MOIETIES

Ahlam Marouf Al-Azzawi<sup>1\*</sup> and Ahmad Solaiman Hamd<sup>2</sup>

<sup>1</sup>Baghdad University, College of Science, Department of Chemistry, Baghdad, Iraq.

<sup>2</sup>Al-Anbar University, College of Veterinary Medicine, Al-Anbar, Iraq.

### ABSTRACT

In the present work a variety of new cyclic imides containing two heterocycles namely 1,3,4-thiadiazole and 1,3,4-oxadiazole were synthesized. The most important step in the synthesis of these imides is the preparation of key intermediate (compound (3)) which represents the main heterocyclic amine containing both 1,3,4-thiadiazole and 1,3,4-oxadiazole rings and from which all the new target cyclic imides are synthesized. Synthesis of compound (3) was performed via three steps the first one involved reaction of 2-amino-5-mercapto-1,3,4-thiadiazole with ethyl chloro acetate producing 2-(5-amino-1,3,4-thiadiazole-2-yl)thioethyl acetate<sup>1</sup> which introduced subsequently in reaction with hydrazine hydrate producing the corresponding aceto-hydrazide<sup>2</sup> and this in turn introduced in reaction with carbon disulfide in the third step producing the mentioned amine<sup>3</sup>. Compound<sup>3</sup> was introduced successfully in reaction with different cyclic anhydrides including (maleic, citraconic, succinic, phthalic, pyridinic and pyromellitic) anhydrides producing a series of new amic acids<sup>4-9</sup>. In the final step dehydration of amic acids<sup>4-9</sup> was performed via treatment with acetic anhydride and anhydrous sodium acetate producing the desired corresponding imides<sup>10-15</sup>. The new imides<sup>10-15</sup> were screened for their antimicrobial activity against four types of bacteria and one fungi and the results indicated that they exhibit good antimicrobial activity against the tested organisms.

**Keywords:** Cyclic imides, aceto-hydrazide, pyridinic and pyromellitic anhydrides, amic acids.

### 1. INTRODUCTION

Cyclic imides have been attracted much more attention of organic and medicinal chemists due to their biological activities, most of them are extensively used as analgesic<sup>1</sup>, antinociceptive agents<sup>2</sup> or as reactants for polymer synthesis<sup>3</sup>.

An imide nucleus can be also found in a structure of anxiolytic, antimicrobial, anticancer and anti-inflammatory substances<sup>4-6</sup>.

Also five membered heterocyclic compounds show various types of biological activities among them 2,5-disubstituted-1,3,4-thiadiazoles are associated with divers biological activities probably by the virtue (-N=C-S-) grouping, some of them possess antibacterial, antifungal and anticonvulsant

activities<sup>7-9</sup>. Similarly 2,5-disubstituted-1,3,4-oxadiazoles also display wide spectrum of activities such as antibacterial, antimalarial, anti-inflammatory<sup>10,11</sup>, antifungal and anticonvulsant<sup>12,13</sup>.

In light of the therapeutic importance of these rings we attempted to synthesize new molecules containing the above mentioned three biologically active moieties (cyclic imide, 1,3,4-thiadiazole and 1,3,4-oxadiazole). The incorporation of these three moieties into a single molecule can change the activity of the obtained new compounds, thus the present work involved synthesis of new cyclic imides containing both 1,3,4-thiadiazole and 1,3,4-oxadiazole moieties and investigation for their antimicrobial activity.

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## **Table of Contents Synthesis Characterization And Evaluation Of Ijrpc**

1. Understanding the eBook Synthesis Characterization And Evaluation Of Ijrpc
  - The Rise of Digital Reading Synthesis Characterization And Evaluation Of Ijrpc
  - Advantages of eBooks Over Traditional Books
2. Identifying Synthesis Characterization And Evaluation Of Ijrpc
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Synthesis Characterization And Evaluation Of Ijrpc
  - User-Friendly Interface

4. Exploring eBook Recommendations from Synthesis Characterization And Evaluation Of Ijrpc
  - Personalized Recommendations
  - Synthesis Characterization And Evaluation Of Ijrpc User Reviews and Ratings
  - Synthesis Characterization And Evaluation Of Ijrpc and Bestseller Lists
5. Accessing Synthesis Characterization And Evaluation Of Ijrpc Free and Paid eBooks
  - Synthesis Characterization And Evaluation Of Ijrpc Public Domain eBooks
  - Synthesis Characterization And Evaluation Of Ijrpc eBook Subscription Services
  - Synthesis Characterization And Evaluation Of Ijrpc Budget-Friendly Options
6. Navigating Synthesis Characterization And Evaluation Of Ijrpc eBook Formats
  - ePub, PDF, MOBI, and More
  - Synthesis Characterization And Evaluation Of Ijrpc Compatibility with Devices
  - Synthesis Characterization And Evaluation Of Ijrpc Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Synthesis Characterization And Evaluation Of Ijrpc
  - Highlighting and Note-Taking Synthesis Characterization And Evaluation Of Ijrpc
  - Interactive Elements Synthesis Characterization And Evaluation Of Ijrpc
8. Staying Engaged with Synthesis Characterization And Evaluation Of Ijrpc
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Synthesis Characterization And Evaluation Of Ijrpc
9. Balancing eBooks and Physical Books Synthesis Characterization And Evaluation Of Ijrpc
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Synthesis Characterization And Evaluation Of Ijrpc
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Synthesis Characterization And Evaluation Of Ijrpc
  - Setting Reading Goals Synthesis Characterization And Evaluation Of Ijrpc
  - Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Synthesis Characterization And Evaluation Of Ijrpc
  - Fact-Checking eBook Content of Synthesis Characterization And Evaluation Of Ijrpc
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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