

[Register](#) [Login](#)

[MENU](#)

[Orbital - Vol. 11 No. 3 - April-June 2019](#)

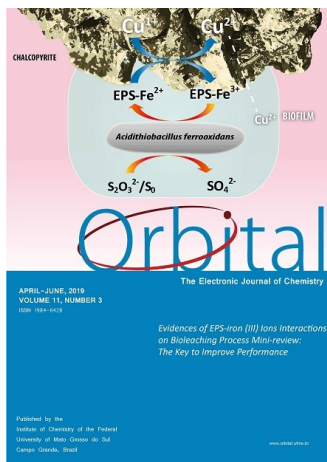
FULL PAPERS

# Synthesis and Biological Evaluation of Some Newly Synthesized Barbiturates and Their Derivatives by Using Task Specific Ionic Liquid [Bmim]OH



Giribala M. Bondle, Sandeep T. Atkore

[More Info](#)



Published July 6, 2019

## Keywords

antimicrobial activity, barbituric acid, 1-butyl-3-methyl-imidazolium hydroxide, dimedone, quinoline

## How to Cite

(1)

Bondle, G. M.; Atkore, S. T. Synthesis and Biological Evaluation of Some Newly Synthesized Barbiturates and Their Derivatives by Using Task Specific Ionic Liquid [Bmim]OH. *Orbital: Electron. J. Chem.* 2019, 11, 142-150.

[More Citation Formats](#)

Copyright (c) 2019 Orbital: The Electronic Journal of Chemistry



This work is licensed under a [Creative Commons Attribution-NonCommercial-NoDerivatives 4.0 International License](https://creativecommons.org/licenses/by-nc-nd/4.0/).

## Abstract

Eco-friendly synthesis of some selected Barbiturates, Thiobarbiturates and Dimedone derivatives has been developed by using task specific ionic liquid Bmim[OH], which not only act as catalyst but also are best solvent media for the Knoevenagel condensation reaction between heteroaryl (pyrazole, 2-chloro-quinoline and Indole) aldehydes with barbituric/ thiobarbituric acid and dimedone. High yield and less reaction time are the advantages of this methodology. All the synthesized compounds were tested for their antimicrobial activities. Most of the compounds showed very good antibacterial and antifungal activity.

DOI: <http://dx.doi.org/10.17807/orbital.v11i3.1175>



[Open Journal Systems](#)

[Information](#)

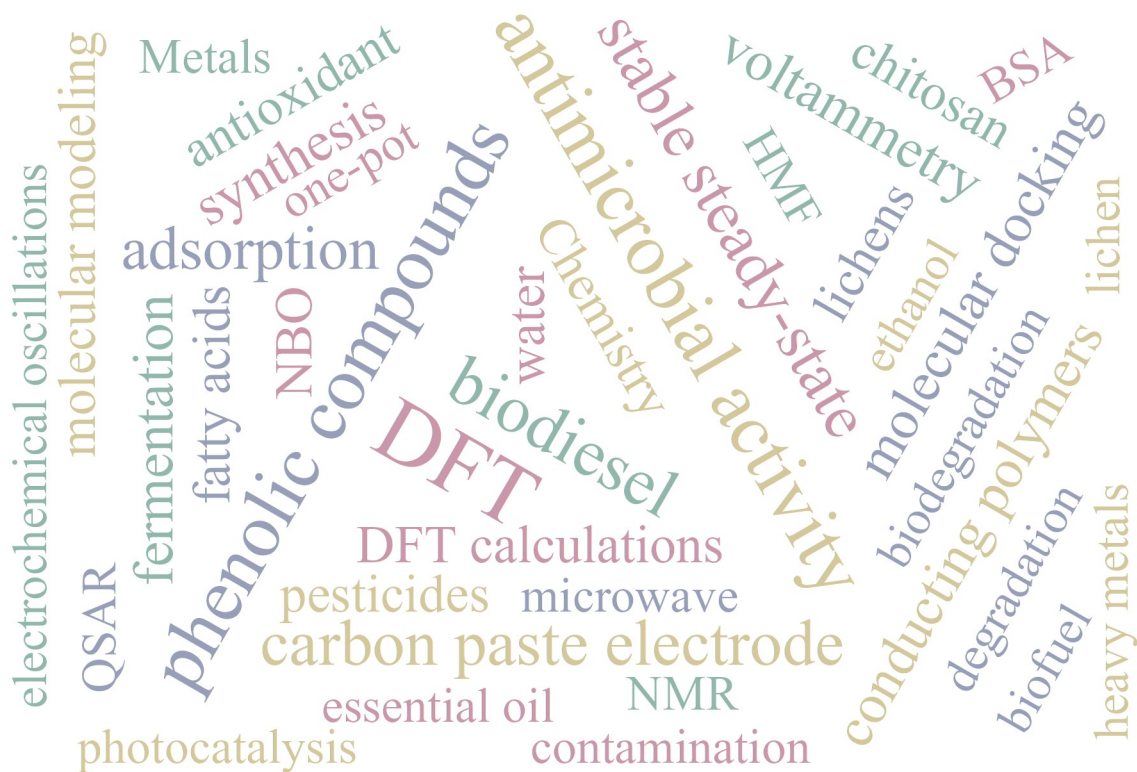
[For Readers](#)

[For Authors](#)

[For Librarians](#)

[Make a Submission](#)

Keywords



#### Most read articles

[Ion Chromatography: Principles and instrumentation](#)

4455

[Development of Gamification-Based Wordwall Game Platform on Reaction Rate Materials](#)

1268

[Utilization of Banana Stem Waste Extracts Assisted by Electrode of Cu/Mg as an Environmentally Friendly Electricity Producer](#)

815

[Use of Contextualized Instructional Materials: The Case of Teaching Gas Laws in a Public Uptown High School](#)

684

[Mixtures and Their Separation Methods: The Use of Didactic Games, the Jigsaw Method and Everyday Life as Facilitators to Construct Chemical Knowledge in High School](#)

499

[Optimization of the Removal of Hexavalent Chromium Cr\(VI\) from Aqueous Solution by Moringa oleifera Bark-Derived Activated Carbon \(MOBAC\) Using Response Surface Methodology \(RSM\)](#)

464

[Determination of Nicotine in Cigarette Tobacco Smuggled to Brazil by Modified QuEChERS Methodology](#)

409

[Evaluation of the Properties of Calotropis procera Oil Aiming the Production of Biodiesel](#)

402

[STEM and STEAM Affects Computational Thinking Skill: A Systematic Literature Review](#)

400

[The Confusion Between Intravenous Sodium Chloride and Potassium Chloride: A Potential Application for a Problem Based Learning \(PBL\) in Nursing Education to Minimize Medication Errors](#)

393

#### Current Issue

ATOM 1.0

RSS 2.0

RSS 1.0

#### Journal Metrics



Orbital

Institute of Chemistry - Universidade Federal de Mato Grosso do Sul. Copyright © 2022

Phone: +55 67 3345 3676. Av. Senador Filinto Müller, 1555 – Vila Ipiranga, CEP: 79074-460 – Campo Grande – MS, Brazil

Platform &  
workflow by  
OJS / PKP