

Joint Event

9th International Conference on

Physical and Theoretical Chemistry

36th International Conference on

Nanotechnology & Expo

20th International Conference on

Emerging Materials and Nanotechnology

November 14-15, 2022

Webinar

Chahrazed Benhaoua, J Nanomater Mol Nanotechno 2022, Volume 11

Synthesis of some enamino derivatives under solvent-free process

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Recently, the interest of enaminoes in chemistry has grown steadily and has been the subject of numerous publications.[1, 2, 3]. Enamine is any molecule with a carbonyl group adjacent to the double bond of an enamine. Their particular electronic richness, with the delocalization of π electrons on five atoms, induces the existence balances between different tautomeric forms and different conformers. We report here on the synthesis of derivatives of enaminoes of potential interest as compounds with interesting physical properties. [4].The treatment of cyclohexane-1,3-dione (dimedone) with N,N-dimethylformamide dimethyl acetal (DMFDMA) gave 2-((dimethylamino)methylene)-5,5-Dimethylcyclohexane-1,3-dione (enamino a). This article explains the differents enaminoes (c) wich are obtained by condensation of an appropriate amine (b) with eanmino (a) using solvent-free technique. [5].

Recent Publications

1. Z.Wang, B. Zhao,Y. Liu,J-P. Wan, Advanced Synthesis & Catalysis, Volume 364, 2022, Pages 1508-1521.
2. Lu Gan,Dr. Li Wei,Prof. Dr. Jie-Ping Wan, ChemistrySelect, Volume 5, 2020, Pages 7822-7825
3. Isis J.Amaye, Rhashanda D.Haywood, Edelquine M.Mandzo, Jeremy J.Wiric, k Patrice L.Jackson-Ayotunde , Tetrahedron, Volume 83, 12 March 2021, 131984
4. C. Benhaoua, M. Rahmouni, and H. Benhaoua, Mediterr. J. Chem. 8.42-52 (2019).
5. C. Benhaoua, S. Kasmi, M. Rahmouni, and J.P. Bazureau, J.Mar. Chim. Heterocycl. 17, 50–60 (2018)

Biography

Chahrazed Benhaoua has completed his PhD in Organic Chemistry by university of Ahamed Benbella, Algéria (2013). Chahrazed holds an accreditation to supervise research (HDR) in the field of organic materials having conductive properties semiconductors from Mascara University (2020). She is Professor at University of Tيارet, Faculty of Sciences matter and Physic Department, where she is in charge of the course "structure of matter and chemical thermodynamique". She has published more than 10 papers in reputed journals.

Received: July 19, 2022; **Accepted:** July 21, 2022; **Published:** November 14, 2022