

**One-pot Access of 2H-pyran-3-carbonitriles from α -aroylketene
dithioacetals- Picric acid sensor by “Turn- off” mechanism**

*A project report submitted to
in partial fulfilment of the degree of*

MASTER OF SCIENCE IN CHEMISTRY

By

S. PRABHANATHI

(Reg. No. 2019MSCC20)



FATIMA COLLEGE (AUTONOMOUS)

Re-Accredited with 'A' Grade by NAAC (3rd Cycle)

College with Potential for Excellence (2004-2019)

74th Rank in India Ranking 2020 (NIRF) by MHRD

DEPARTMENT OF CHEMISTRY

MADURAI – 625 018

Under the guidance of

Dr. S. SIVAKUMAR

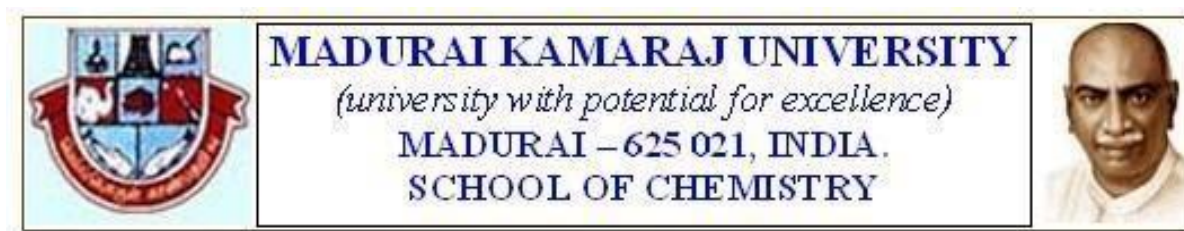


Department of Organic Chemistry School of Chemistry Madurai Kamaraj

University (University with potential for excellence) Madurai- 625 021.

April - 2021

CERTIFICATE



This is to certify that this dissertation entitled **2Hpyran3carbonitriles from α -aroylketene dithioacetals- Picric acid by turn off mechanism** submitted by **S. PRABHANATHI** for the award of Master of Philosophy at the Department of Organic Chemistry, School of Chemistry, Madurai Kamaraj University, Madurai-625 021 is based on the result of her studies under my supervision. This project or any part of this work has not been submitted elsewhere for any other degree or diploma.

A handwritten signature in black ink, appearing to read "Dr. S. Sivakumar".

Dr. S. SIVAKUMAR

Assistant Professor

Department of Organic Chemistry

School of Chemistry

Kamaraj University Madurai- 625021

BONAFIDE CERTIFICATE

This is to certify the project work entitled **2H-pyran-3carbonitriles from α -aroylketene dithioacetals- Picric acid sensor by Turn off mechanism** to Fatima college Madurai-635018 in partial fulfilment for the Master of Science in Chemistry is a Bonafide certificate of research work carried out by **S.PRABHANATHI (Reg No -2019MSCC20)** under the guidance of **Dr.S.SIVAKUMAR** Assistant professor, Department of organic Chemistry, Madurai kamaraj University Madurai-625021 in the academic year 2019-2021



INTERNAL GUIDE

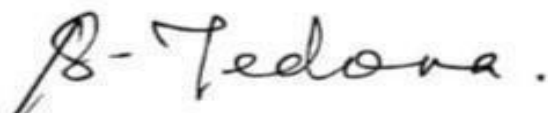
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EXTERNAL GUIDE

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HEAD OF THE DEPARTMENT

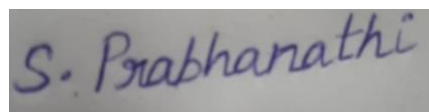
Dr. B. MEDONA, M. Sc., Ph. D.,

Head and Associate professor
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EXTERNAL EXAMINER

DECLARATION

I hereby declare that the project work “*Base Induced Onepot Access of 2H-pyran-3-carbonitriles from α -aroylketene dithioacetals*” as Picric acid sensor by Turn off mechanism been originally and independently carried out by me in the Department of Organic Chemistry, School of Chemistry, Madurai Kamaraj University, Madurai – 625 021. It has not previously formed the basis for the award of any degree, diploma or other similar title of this or any other University.



Place: Madurai - 18

Date : 15.04.2021

Signature of the student

S.Prabhanathi

(Reg. No. 2019 MSCC20)