

Indian Journal of Chemistry

Sect. B: Organic Chemistry including Medicinal Chemistry

VOL. 57B

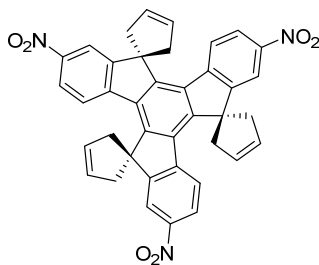
NUMBER 12

December 2018

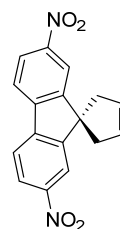
CONTENTS

Papers

- 1489 Design and synthesis of spirotruxene and spirofluorene derivatives** The work describes a facile and efficient method for the synthesis of spirotruxene and spirofluorene compounds using allylation and RCM as key steps from readily available starting materials.



Spirotruxene derivative

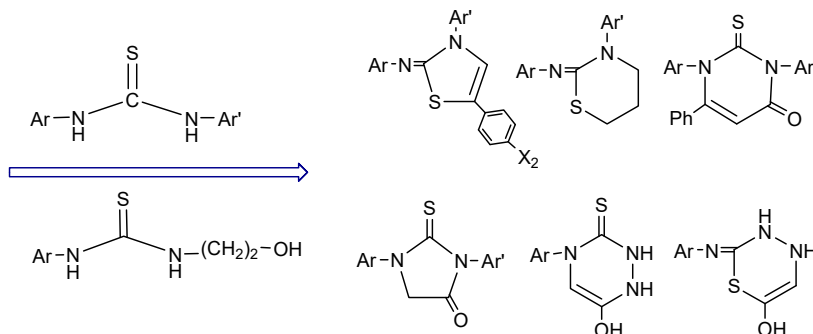


Spirofluorene derivative

Sambasivarao Kotha*, Rashid Ali, Nageswara Rao Panguluri & Ashoke Chandra Deb

Department of Chemistry, Indian Institute of Technology, Bombay, Powai, Mumbai 400 076, India

- 1493 Synthesis of thiazol, thiazinan, thiadiazin, thiazolidin, triazine, thioxo-pyrimidin and thioxo-imidazolidine by inter-intra molecular cyclization**



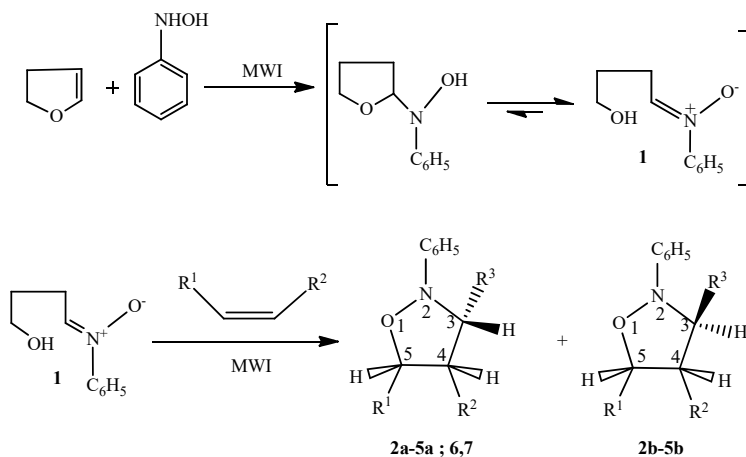
* 17 examples
* Purified without Column Chromatography
* Favorable green chemistry matrix

Mangesh N Zade, Manish M Katiya, Vinod D Deotale, Madhuri M Sontakke, Madhukar G Dhonde* & Baliram N Berad

Department of Chemistry, Shri Mathuradas Mohota College of Science, Nagpur 440 009, India

1501 Synthesis of new scaffolds of isoxazolidine derivatives from dihydrofuran via 1,3-dipolar cycloaddition reactions under solvent free conditions

Synthesis of a new class of isoxazolidine derivatives have been reported from dihydrofuran under solvent free conditions *via* 1,3-dipolar cycloaddition reactions. The new cycloadducts have been found to have good synthetic potentiality as they could be easily functionalized into 1,3-amino alcohols.

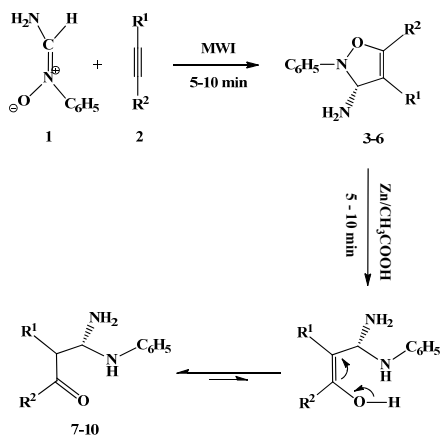


Bhaskar Chakraborty* & Esmita Chettri

Organic Chemistry Laboratory, Sikkim Government College (Sikkim State University), Gangtok 737 102, India

1509 Synthesis of some new class of isoxazoline derivatives and their functionalization to 1,3-amino ketones: A new approach

Synthesis of few new scaffolds for isoxazolidine derivatives have been reported from amino nitrones in solvent free conditions. These new molecules are further functionalized into synthetically more important 1,3-amino ketone derivatives. Significant rate acceleration, high yield of products in solvent free conditions and atom efficiency are the salient features observed in these syntheses.



Bhaskar Chakraborty* & Neelam Rai

Organic Chemistry Laboratory, Sikkim Government College (Sikkim State University), Gangtok 737 102, India

-
- 1514** **Structure based virtual screening, molecular docking studies and modification of hydantoin nucleus analogues as anticonvulsants**

Neema Bisht & B K Singh*

Department of Pharmaceutical Sciences, Kumaun University, Bhimtal Campus,
Bhimtal 263 136, India

-
- 1526** **Annual Index**
-

Authors for correspondence are indicated by (*)
