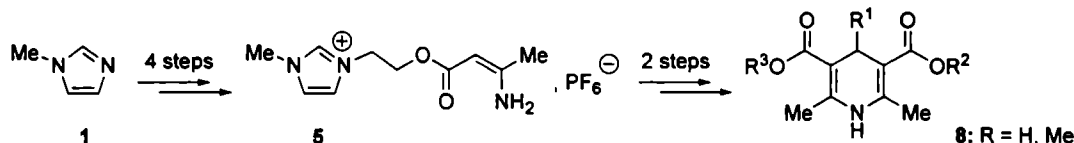


Synthesis and application of ionic liquid phase-supported β -aminocrotonate for access to asymmetric 1,4-dihydropyridines.Jean-Christophe Legeay,^a Daniel Carrié,^a Ludovic Paquin,^a Jean Jacques Vanden Eynde,^b and Jean Pierre Bazureau^{a,*}^a Université de Rennes 1, UMR CNRS 6226, Groupe ICMV, Bât. 10A, Campus de Beaulieu, Av. Du Général Leclerc, CS 74205, 35042 RENNES Cedex (F). ^b Université de Mons, Département de Chimie Organique, 20 Place du Parc, 7000 MONS (B).**Multiple Cobalt Phosphate Ring System from 1-Alkyl-3-Methylimidazolium Tetrafluoroborate Ionic Liquids**

Miao Yang*, Qingshan Liu, Peifang Yan, Xiumei Liu, Urs Welz-Biermann*

Dalian Institute of Chemical Physics, Chinese Academy of Sciences, Zhongshan Road 457, Dalian 116023, P. R. China.

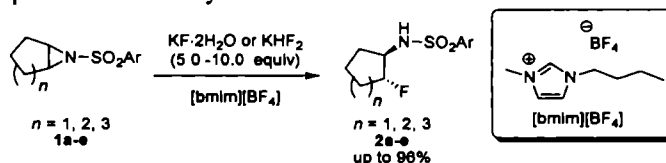
Open-framework phosphate $\text{Co}_7(\text{PO}_4)_2(\text{HPO}_4)_4$ with a multiple ring system was ionothermally synthesized by using 1-alkyl-3-methylimidazolium tetrafluoroborates as solvent. The crystals of $\text{Co}_7(\text{PO}_4)_2(\text{HPO}_4)_4$ were large enough to do single crystal X-ray diffraction analysis, which crystallize in the space group $P-1$ (No.2), with cell parameters of $a = 6.471(3)$ Å, $b = 7.881(3)$ Å, $c = 9.488(4)$ Å, $\alpha = 104.288(6)^\circ$, $\beta = 109.062(5)^\circ$ and $\gamma = 101.345(5)^\circ$. The systematic increase in alkyl chain length from 2 to 4 carbon atoms in 1-alkyl-3-methylimidazolium tetrafluoroborates was investigated in this ionothermal synthesis system. The effect of different anions, such as Cl^- , Br^- and BF_4^- , on the synthesis result will also be presented in this paper.

Ionic liquids as media for nucleophilic ring opening fluorination of aziridines

Shun Noritake, Norio Shibata, * Hiroyuki Kawai, Manoj Kumar Pandey, Shuichi Nakamura, Takeshi Toru

Department of Frontier Materials, Graduate School of Engineering, Nagoya Institute of Technology, Gokiso, Showa-ku, Nagoya, 466 8555, Japan.

We have developed an efficient methodology for nucleophilic ring opening fluorination of aziridines by $\text{KF}\cdot 2\text{H}_2\text{O}$ or KHF_2 in an ionic liquid without any external sources, which resulted in a convenient route to β -fluoro amines. The ionic liquid acts not only as a solvent but also as a phase transfer catalyst in the reaction.

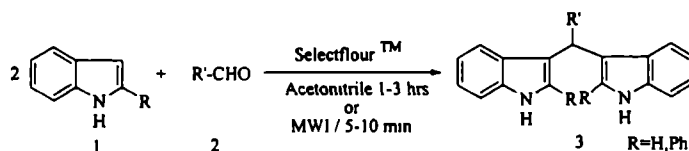


A facile and efficient method for the synthesis of bis(indolyl)methanes catalyzed by selectflour™ under conventional heating and microwave irradiation.

B. Sunil kumar^a, Raveendra K. Hunnur^{*a}, K.Mallikarjun Reddy^a, R. H. Udupi^a and V. Hima bindu^b.

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^b. Jawaharlal Nehru Technological University, Kukatapally, Hyderabad-500 072 (A.P) India.

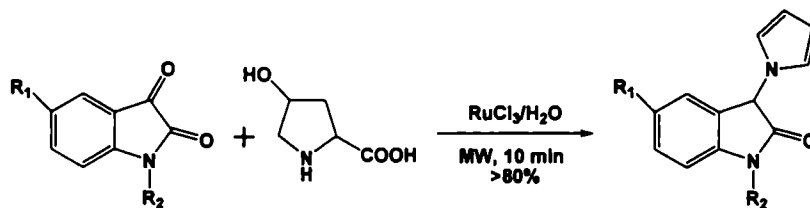


Microwave-Assisted Ruthenium Trichloride-Catalyzed Synthesis Of Pyrrole Fused With Indole System In Water

Debasish Bandyopadhyay, Antara Banik, Sahil Bhatta and Bimal K. Banik*

Department of Chemistry, The University of Texas-Pan American, 1250 West University Drive, Edinburg, Texas 78541;

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a: R₁ = H, R₂ = H
 b: R₁ = H, R₂ = CH₃
 c: R₁ = CH₃, R₂ = H

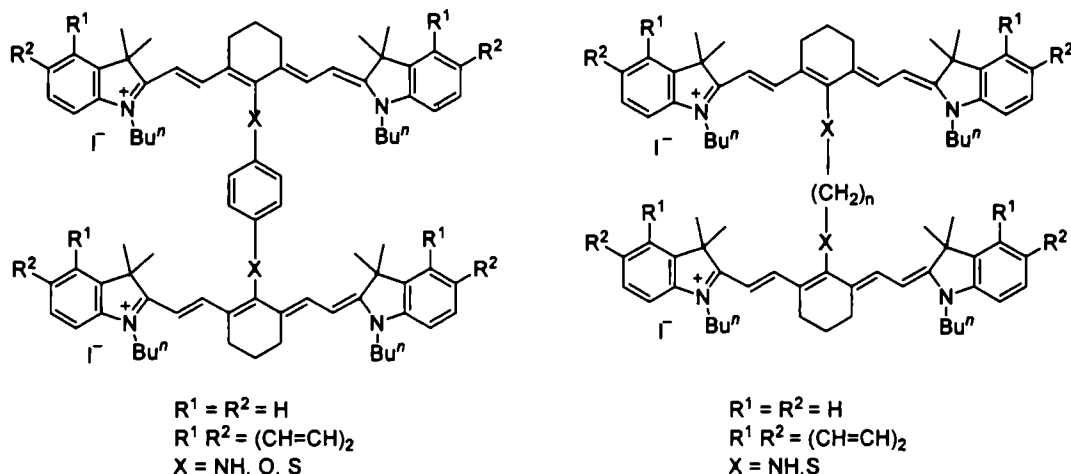
Facile Synthesis Of Dimeric Heptamethine Cyanine Dyes Containing A Linker At The Meso Positions

Mariusz Mojzych,[#] Aldona Raszkwicz and Lucjan Strekowski*

Department of Chemistry, Georgia State University, Atlanta, Georgia 30302-4098, USA

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Abstract: The synthesized dyes contain 1-butyl-3,3-dimethyl-3*H*-indolium or benzo[*e*] analogs as the terminal subunits and diverse chains linking the central meso positions of the individual chromophores. The dimeric dyes show absorption in the red (> 600 nm) or near-infrared (> 700 nm) regions.

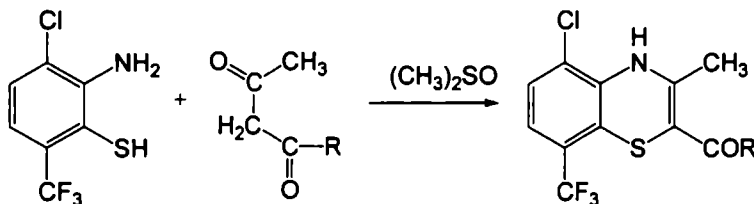
Regioselective One Pot Synthesis Of 5-Chloro-3-Methyl- 8-Trifluoromethyl-4*H*-1, 4-Benzothiazines

Vandana Ankodia, Praveen Kumar Sharma, Kailash Sharma, and M. Kumar* and Archana Gupta

Department of Chemistry, University of Rajasthan, Jaipur-302055, India.

Department of Chemistry, Delhi University, Delhi-110007, India

5-Chloro-3-methyl-8-trifluoromethyl-4*H*-1, 4-benzothiazines have been synthesized by an efficient synthetic method in a single step involving heterocyclization of 2-amino-3-chloro-6-trifluoromethylbenzenethiol with α -ketoesters or α -diketones.



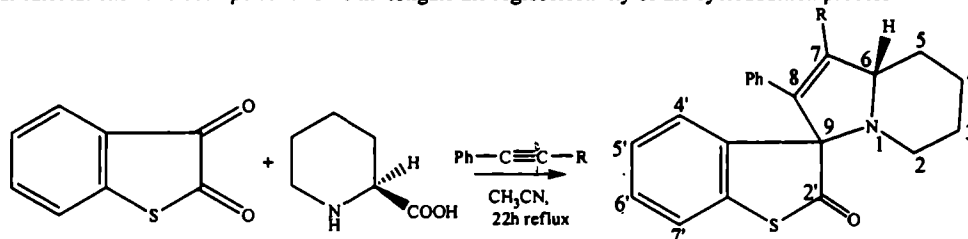
Regioselective Synthesis Of Azabicycloadducts Derived From Benzo[B]Thiophene -2, 3 -Dione and Pipercolinic Acid

S.Verma, K.Arora, D.Jose, R.Joshi, P.Pardasani and R.T. Pardasani*

Department of Chemistry, University of Rajasthan, Jaipur - 302 055, India.
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ABSTRACT

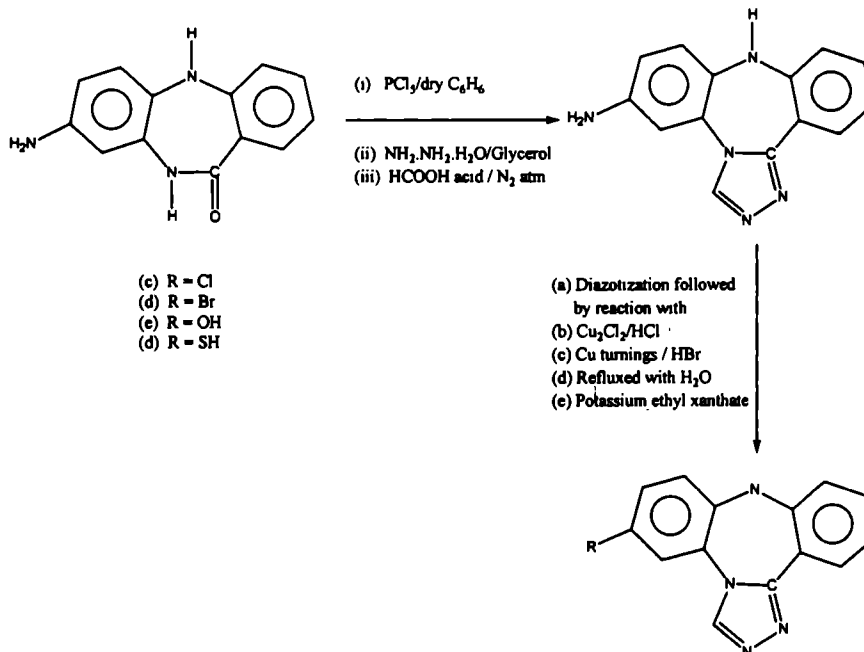
A simple and efficient method for the synthesis of novel spiropyrrolidines has been accomplished by regioselective 1, 3-dipolar cycloaddition reactions of azomethine ylide generated by benzo[b]thiophene-2,3-dione and piperidine 2-carboxylic acid in good yield. Molecular orbital calculations have been performed to investigate the regioselectivity of the cycloaddition process.



Triazolo derivatives of dibenzodiazepines as potential C.N.S Active drug

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Synthesis And Spectral Studies Of Nitrosoarea Derivatives Of Benzyl - 3-Methyl- 5/7 Substituted 4H-1, 4-Benzothiazine -2- Carboxylates As Possible Bifunctional Anticancer Agents

Rajni Gupta* and Vandana Gupta

Department of Chemistry, University of Rajasthan, Jaipur-302004, India
 Email: rajni187@yahoo.co.in

The synthesis of nitrosoarea derivatives of substituted 4H-1,4-benzothiazines by the isocyanation and successive nitrosation have been reported. The synthesized compounds have been characterized by their elemental analyses and spectral characteristics.

