

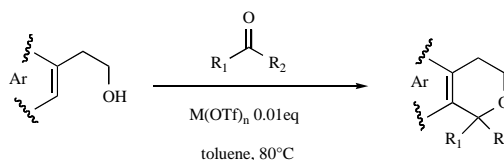
Graphical Abstracts

Letters in Organic Chemistry; Vol. 7; 2010, 420

Metal Triflates: Efficient Catalysts for Oxa-Pictet-Spengler Reaction

Benaissa Bouguerne, Christian Lherbet* and Michel Baltas

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An efficient, simple, and eco-friendly method has been described for the synthesis of isochromans by employing metal triflates as a mild Brønsted acid precursor.

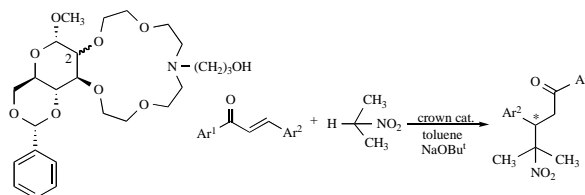
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Enantioselective Michael Addition of 2-Nitropropane to Substituted Chalcones and Chalcone Analogues Catalyzed by Chiral Crown Ethers Incorporating an α -D-Glucose or an α -D-Mannose Unit

Attila Makó, Zsolt Rapi, László Drahos, Áron Szöllösy, György Keglevich and Péter Bakó*

*Department of Organic Chemistry and Technology, Budapest University of Technology and Economics, H-1521 Budapest, Hungary

The glucose-based catalyst (2 C⁺ O) preferred the formation of the (+)-enantiomers (14-87 % ee), applying the mannose-based crown ether (2 C⁻ O) the (-)-enantiomers of the Michael adducts were in excess (51-84 % ee).



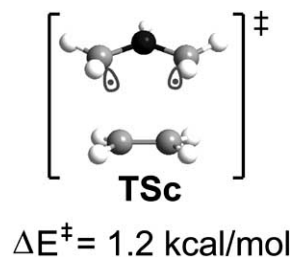
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Understanding the High Reactivity of the Azomethine Ylides in [3 + 2] Cycloaddition Reactions

Luis R. Domingo*, Eduardo Chamorro and Patricia Pérez

*Universidad de Valencia, Departamento de Química Orgánica, Dr. Moliner 50, E-46100 Burjassot, Valencia, Spain

The pseudo-diradical character of azomethine ylide AY is responsible for the high reactivity in [3+2] cycloaddition reactions.

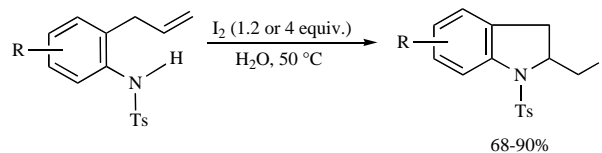


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Selective 5-exo-trig Iodocyclization of *N*-tosyl-2-allylanilines in Water

Michalis Batistatos, Manolis A. Fousteris, Sotiris S. Nikolaropoulos*, Jean Le Bras and Jacques Muzart

*Laboratory of Medicinal Chemistry, Department of Pharmacy, School of Health Sciences, University of Patras, 26500 Patras, Greece



The iodocyclization of *N*-tosyl-2-allylanilines in water affords various 2-iodomethyl-*N*-tosylindolines in high yields.

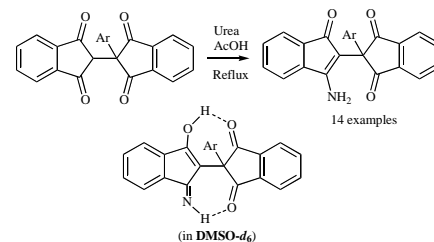
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Facile Regioselective Synthesis of 3-amino-2-(2'-aryliindanedionyl)inden-ones from 2-aryl-2,2'-biindan-1,1',3,3'-tetrone and Solvent-Dependent Keto-Enol Tautomerism in Enaminones

Suven Das, Roland Fröhlich and Animesh Pramanik*

*Department of Chemistry, University of Calcutta, 92, A. P. C. Road, Kolkata-700 009, India

Regioselective synthesis of 3-amino-2-(2'-aryliindanedionyl)indenones and the solvent-dependent keto-enol tautomerism of the enaminones are reported.



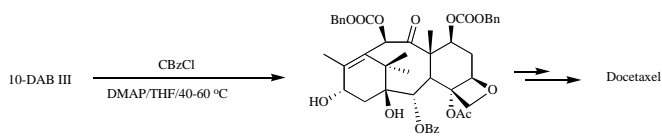
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A Mild and Convenient Semi-Synthesis of Docetaxel from 10-Deacetyl Baccatin III

Hui Zhou, Dahai Chen, Hongwei Gao and Qingeng Li*

*College of Pharmacy, Chongqing Medical University, 400016, P. R., China

A novel protocol for the semi-synthesis of docetaxel was achieved with an overall yield of 50%. The key step is the selective protection of the C(7) and C(10) hydroxyl groups of 10-deacetyl baccatin III, utilizing benzyl chloromate as a selective protecting reagent, which are capable of being conveniently removed by Pd/C under hydrogen atmosphere.



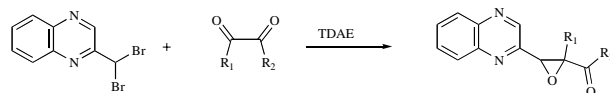
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TDAE-Initiated Synthesis of Oxiranes in Heterocyclic Series: Reaction of 2-(Dibromomethyl)quinoxaline with α -Dicarbonyl Derivatives

Marc Montana, Thierry Terme and Patrice Vanelle*

*Laboratoire de Pharmaco-Chimie Radicalaire, Faculté de Pharmacie, Universités d'Aix-Marseille I, II et III - CNRS, UMR 6264, Laboratoire Chimie Provence, 27 Bd J. Moulin, 13385 Marseille Cedex 05, France

A new series of quinoxalinic oxirane derivatives was synthesized from reaction between 2-(dibromomethyl)quinoxaline and α -dicarbonyl compounds using tetrakis(dimethylamino)ethylene (TDAE).



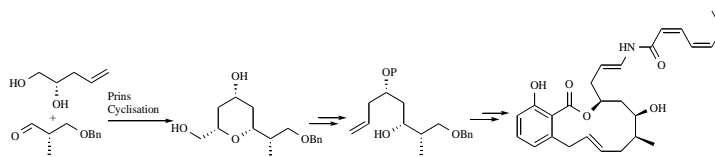
Letters in Organic Chemistry; Vol. 7; 2010, 457

Stereoselective Formal Synthesis of (-)-Salicylihalamides A and B Via Prins Cyclisation

J.S. Yadav*, N. Venkateswar Rao, P. Purushothama Rao, M. Sridhar Reddy and A.R. Prasad

*Division of Organic Chemistry, Indian Institute of Chemical Technology, Hyderabad-500 007, India

A stereoselective and convergent formal approach to Salicylihalamide A and B is achieved through our recently developed strategy for the construction of polyketide precursors via Prins cyclisation.



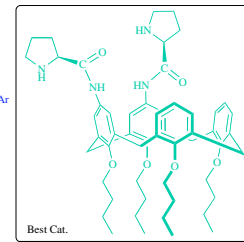
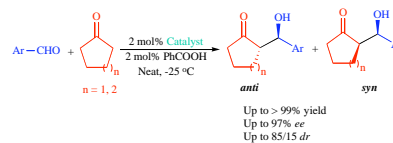
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Novel Prolinamide Organocatalysts Based on Calix[4]arene Scaffold for the Enantioselective Direct Aldol Reaction

Zheng-Yi Li, Cheng-Xi Lu, Guoli Huang, Jie-Jie Ma, Hongsheng Sun, Leyong Wang* and Yi Pan*

*Key Laboratory of Mesoscopic Chemistry of Ministry of Education, School of Chemistry and Chemical Engineering, Nanjing University, Nanjing 210093, P. R. China

A series of prolinamide organocatalysts based on calix[4]arene scaffold were found to catalyze direct asymmetric aldol reaction of aromatic aldehydes with cyclohexanone and cyclopentanone with good enantioselectivities (up to 97% ee), excellent yields (up to > 99%) and moderate diastereoselectivities (up to 85/15).



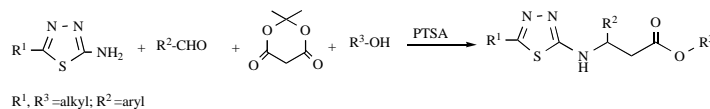
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One-Pot Four-Component Synthesis of 3-(1,3,4-Thiadiazol-2-ylamino)-3-arylpropanoates

Zheng Li*, Yanbo Li, Hongfang Cai, Jun Xu and Jinghong Shi

*Key Laboratory of Polymer Materials of Gansu Province, College of Chemistry and Chemical Engineering, Northwest Normal University, Lanzhou, Gansu, 730070, P. R. China

A novel one-pot four-component synthetic method for the 3-(1,3,4-thiadiazol-2-ylamino)-3-arylpropanoates by condensation of 2-amino-1,3,4-thiadiazoles, aldehydes, Meldrum's acid and aliphatic alcohols catalyzed by *p*-toluenesulfonic acid was described.

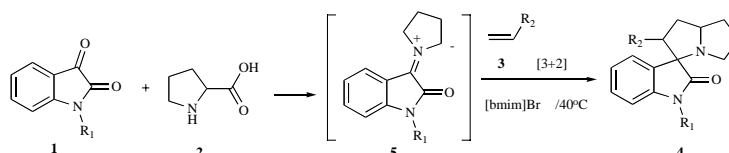


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Synthesis of Pyrrolizidine Derivatives in Ionic Liquid [bmim] Br

Laleh Faraji, Hamid Arvinnezhad, Naghmeh Alikami and Khosrow Jadidi*

*Department of Chemistry, Shahid Beheshti University, Evin, G.C., 1983963113, Tehran, Iran

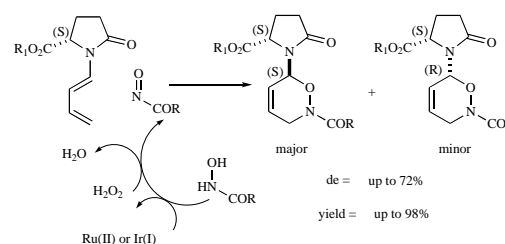


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Ru(II)- and Ir(I) Catalyzed Hydrogen Peroxide Oxidation of Hydroxamic Acids and their Subsequent Hetero Diels-Alder Cycloadditions with Chiral N-Dienyl Lactams

Ahmad Fakhruddin, Kesiny Phomkeona, Abdel-Moneim Abu-Elfotoh, Kazutaka Shibatomi and Seiji Iwasa*

*School of Materials Science, Toyohashi University of Technology, Tempaku-cho, Toyohashi, Aichi 441-8580, Japan



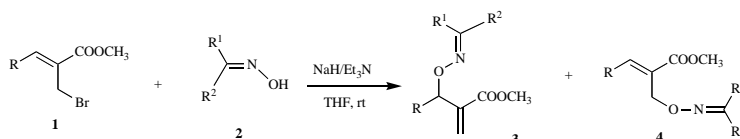
Letters in Organic Chemistry; Vol. 7; 2010, 479

Regioselective Synthesis of Functionalized Oxime Ethers

Jun Liu, Dafeng Li, Jian Li, Chunju Li and Xueshun Jia*

*Department of Chemistry, Shanghai University, Shangda Rd. 99, Shanghai, 200444, P. R. China

The regioselective synthesis of functionalized oxime ethers 3 was reported in good yields.



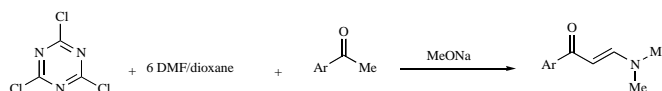
Letters in Organic Chemistry; Vol. 7; 2010, 483

One-Pot Synthesis of Enaminones Using Gold's Reagent

Tamer S. Saleh*, Mohamed A. Al-Omar and Hatem A. Abdel-Aziz

*Green Chemistry Department, National Research Centre, Dokki, Cairo 12622, Egypt

An efficient and simple protocol has been developed for the synthesis of enaminones by a one-pot synthesis using Gold's reagent.

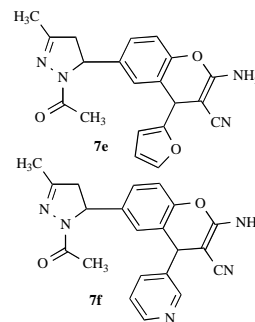


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Novel Dihydropyrazole Derivatives Linked with 4H-Chromene: Microwave-Promoted Synthesis and Antibacterial Activity

Xin-Hua Liu*, Jin-Xin Liu, Lin-Shan Bai, Guo-Lin Lan and Chu-Xiou Pan

*School of Chemistry and Chemical Engineering, Anhui University of Technology, Maanshan 243002, P. R. China

Novel 6-(1-acetyl-3-methyl-4,5-dihydro-1H-pyrazol-5-yl)-2-amino-4-substituted-phenyl-4H-chromene-3-carbonitrile derivatives were synthesized and characterized by ESI-MS, ¹H NMR and ¹³C NMR. All of the compounds have been screened for their antibacterial activity. The results showed that compounds 7e and 7f displayed significant activity with MIC of 1.562 μg/mL against *B. subtilis* ATCC 6633.

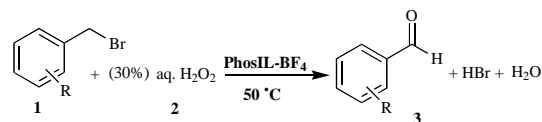
Letters in Organic Chemistry; Vol. 7; 2010, 491

H₂O₂/Phosponium Ionic Liquid: An Efficient and Simple Approach for Benzyl Halides Oxidation

Satish A. Dake, Ravibhushan S. Kulkarni, Ambadas B. Rode, Pravin S. Shinde, Sushil K. Ghumbre, Rupali L. Magar and Rajendra P. Pawar*

*Department of Chemistry, Deogiri College, Aurangabad-431 005, MS, India

An efficient oxidation of benzyl halide using aqueous hydrogen peroxide (30%) in trihexyl (tetradecyl) phosphonium-tetrafluoroborate ionic liquid has been reported.



Perylenebisimide-Based Colorimetric and Fluorescent Sensors for Selective Detection of Anions

Peng Guo, Xiaoyu Su and Jingbo Lan*

*Key Laboratory of Green Chemistry and Technology of Ministry of Education, College of Chemistry, Sichuan University, Chengdu 610064, P. R. China

Imidazolium-anchored receptors served as highly selective colorimetric and fluorometric sensors for F^- and $H_2PO_4^-$.

