

Easy formation of gold-like lustrous crystals with a high melting point from 1-aryl-2,5-bis[5-(tricyanoethenyl)-2-thienyl]pyrroles

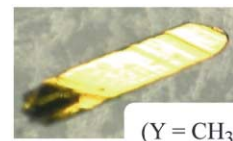
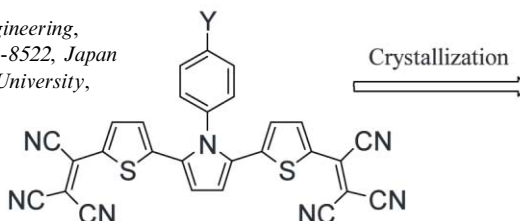
Tetrahedron Letters 44 (2003) 3595

Katsuyuki Ogura,^{a,b,*} Rui Zhao,^b Mingtao Jiang, Motohiro Akazome,^a Shoji Matsumoto^a and Kentaro Yamaguchi^c

^aDepartment of Materials Technology, Faculty of Engineering, Chiba University, 1-33 Yayoicho, Inageku, Chiba 263-8522, Japan

^bGraduate School of Science and Technology, Chiba University, 1-33 Yayoicho, Inageku, Chiba 263-8522, Japan

^cChemical Analysis Center, Chiba University, 1-33 Yayoicho, Inageku, Chiba 263-8522, Japan



Gold-like lustrous crystals that are sparingly soluble in organic solvents.

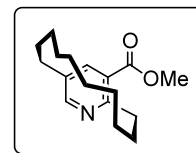
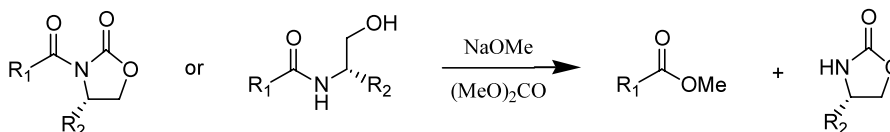
A simple method removing 2-oxazolidinone and 2-hydroxyethylamine auxiliaries in methoxide–carbonate systems for synthesis of planar-chiral nicotine

Tetrahedron Letters 44 (2003) 3599

Nobuhiro Kanomata,^{a,b,*} Satoshi Maruyama,^a Katsuhito Tomono^a and Shinnosuke Anada^a

^aDepartment of Industrial Chemistry, Meiji University, Tama-ku, Kawasaki 214-8571, Japan

^bPRESTO, Japan Science and Technology Corporation, Japan



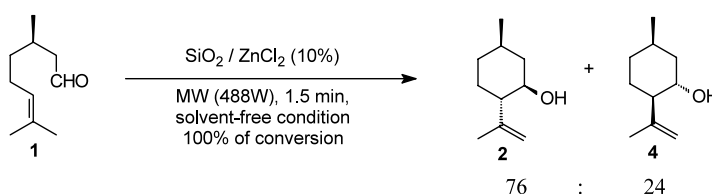
Green synthesis of (–)-isopulegol from (+)-citronellal: application to essential oil of citronella

Tetrahedron Letters 44 (2003) 3605

Raquel G. Jacob,^{a,*} Gelson Perin,^a Leticia N. Loi,^a Claudia S. Pinno^a and Eder J. Lenardão^b

^aDepartamento de Biologia e Química, Laboratório de Pesquisa em Química-UNIJUÍ-98700-000 Ijuí, RS, Brazil

^bDepartamento de Química Analítica e Inorgânica, Universidade Federal de Pelotas-UFPeL, Pelotas, RS, Brazil

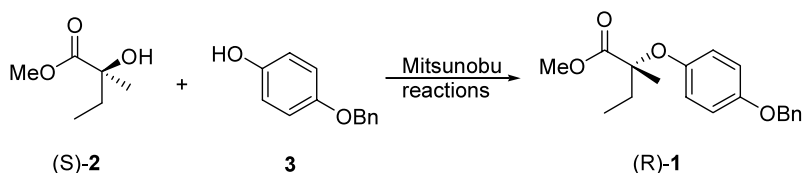


Stereospecific synthesis of chiral tertiary alkyl-aryl ethers via Mitsunobu reaction with complete inversion of configuration

Tetrahedron Letters 44 (2003) 3609

Yao-Jun Shi,^{*} David L. Hughes and James M. McNamara

Department of Process Research, Merck Research Laboratories, PO Box 2000, Rahway, NJ 07065 USA

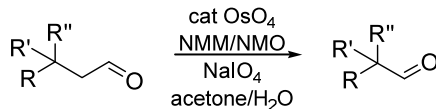


Degradation of aldehydes to one carbon lower homologs

Tetrahedron Letters 44 (2003) 3613

Damien Belotti, Gaëlle Andreatta, Fabienne Pradaux, Samir BouzBouz and Janine Cossy*

Laboratoire de Chimie Organique associé au CNRS, ESPCI, 10 rue Vauquelin, 75231-Paris Cedex 05, France



Synthesis of a useful anomeric thioacetate of an *N*-acetylactosamine derivative and its application

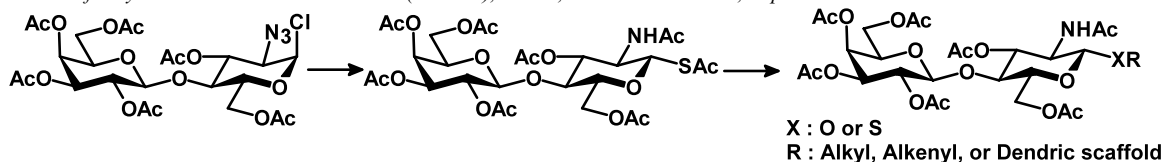
Tetrahedron Letters 44 (2003) 3617

Koji Matsuoka,^{a,*} Takumi Ohtawa,^b Hiroshi Hinou,^a Tetsuo Koyama,^a Yasuaki Esumi,^c Shin-Ichiro Nishimura,^b Ken Hatano^a and Daiyo Terunuma^a

^aDepartment of Functional Materials Science, Faculty of Engineering, Saitama University, Saitama 338-8570, Japan

^bDivision of Biological Sciences, Graduate School of Science, Hokkaido University, Sapporo 060-0810, Japan

^cThe Institute of Physical and Chemical Research (RIKEN), Wako, Saitama 351-0198, Japan

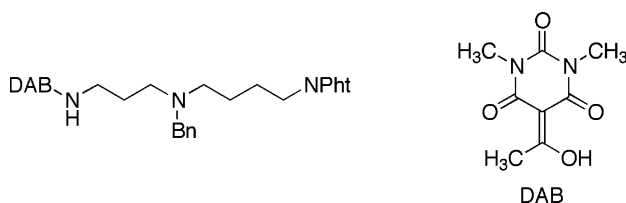


Reaction of 1,3-dimethyl-5-acetyl-barbituric acid (DAB) with primary amines. Access to intermediates for selectively protected spermidines

Tetrahedron Letters 44 (2003) 3621

Emerson T. da Silva and Edson L. S. Lima*

Universidade Federal do Rio de Janeiro, Instituto de Química, Departamento de Química Orgânica, Cidade Universitária, 21945-970 Rio de Janeiro, RJ, Brazil



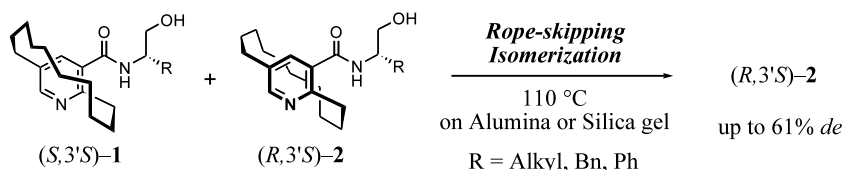
Adsorption-induced asymmetric transformation of planar-chiral pyridinophanes

Tetrahedron Letters 44 (2003) 3625

Nobuhiro Kanomata* and Jun Oikawa

Department of Industrial Chemistry, Meiji University, Tama-ku, Kawasaki 214-8571, Japan

Novel adsorption-induced asymmetric transformation (AIAT) shifted the rope-skipping equilibria preferentially to (*R*,3'*S*)-**2** on a series of inorganic porous adsorbents to accumulate (*R*)-configuration of planar chirality. The diastereomeric excess reached up to 61% de (ca. 4/1 ratio) on alumina.

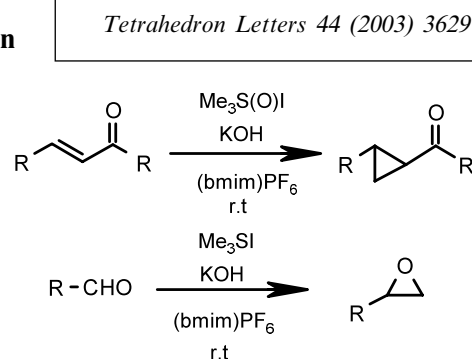


The first Corey–Chaykovsky epoxidation and cyclopropanation in ionic liquids

S. Chandrasekhar,* Ch. Narasimulu, V. Jagadeshwar and K. Venkatram Reddy

Indian Institute of Chemical Technology, Hyderabad, India

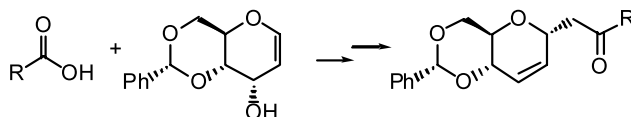
The first Corey–Chaykovsky epoxidation and cyclopropanation using trimethyl sulfonium iodide/trimethyl sulfoxonium iodide and KOH as base in the recyclable ionic liquid, (bmim)PF₆ are described.



Synthesis of α -C-glycosides via tandem Tebbe methylenation and Claisen rearrangement

H. Yasmin Godage and Antony J. Fairbanks*

Dyson Perrins Laboratory, Oxford University, South Parks Road, Oxford OX1 3QY, UK



A novel 8,9-seco-rhamnofolane and a new rhamnofolane endoperoxide from *Jatropha integerrima* roots

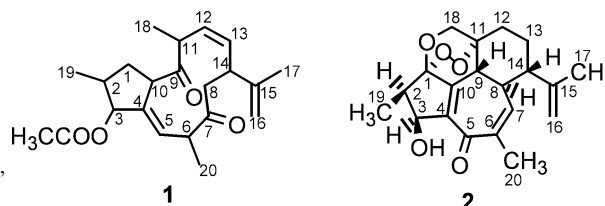
Somyote Sutthivaiyakit,^{a,*} Wantana Mongkolvisut,^{a,c} Pongsak Ponsitipiboon,^a Samran Prabpai,^b Palangpon Kongsaree,^b Somsak Ruchirawat^{b,c,d} and Chulabhorn Mahidol^d

^aDepartment of Chemistry, Faculty of Science, Ramkhamhaeng University, Bangkok 10240, Thailand

^bDepartment of Chemistry, Mahidol University, Bangkok 10400, Thailand

^cChulabhorn Research Centre, Mahidol University, Bangkok 10400, Thailand

^dChulabhorn Research Institute, Bangkok 10210, Thailand

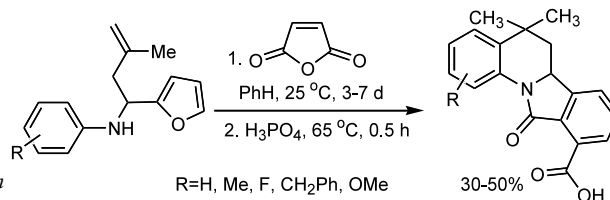


A general strategy for the synthesis of oxoisoindolo[2,1-a]quinoline derivatives: the first efficient synthesis of 5,6,6a,11-tetrahydro-11-oxoisoindolo[2,1-a]quinoline-10-carboxylic acids

Alexey V. Varlamov, Fedor I. Zubkov,* Ekaterina V. Boltukhina, Natalya V. Sidorenko and Roman S. Borisov

Organic Chemistry Department of the Russian Peoples Friendship University, 6, Miklukho-Maklaya St, 117198 Moscow, Russian Federation

A convenient two-step synthesis of new isoindolo[2,1-a]quinoline-10-carboxylic acids via a [4+2] cycloaddition of 4- α -furyl-4-N-arylamino-1-enes and maleic anhydride is described.



Polymer-supported electron-rich diene for hetero Diels–Alder reactions

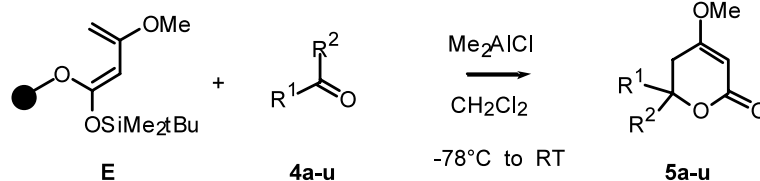
Tetrahedron Letters 44 (2003) 3645

Camille Pierres,^a Pascal George,^b Luc van Hijfte,^c Jean-Bernard Ducep,^c Marcel Hibert^a and André Mann^{a,*}

^aLaboratoire de Pharmacochimie de la Communication Cellulaire, UMR 7081, Faculté de Pharmacie, 74, route du Rhin, F-67401 Illkirch, France

^bDépartement de Recherche SNC Laboratoire de Recherche Sanofi-Synthelabo, 31 av. P. V. Couturier, F-92220 Bagneux, France

^cSanofi-Synthelabo Recherche, Département de Recherche Exploratoire, 16, rue d'Ankara, F-67000 Strasbourg, France

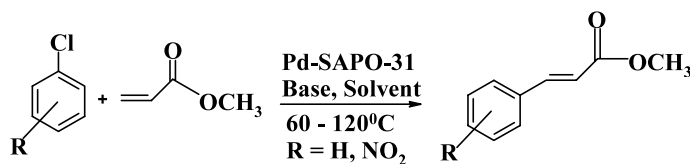


Pd-SAPO-31, an efficient, heterogeneous catalyst for Heck reactions of aryl chlorides

Tetrahedron Letters 44 (2003) 3649

Rajendra Srivastava, N. Venkatathri, D. Srinivas* and Paul Ratnasamy*

Catalysis Division, National Chemical Laboratory, Pune-411 008, India

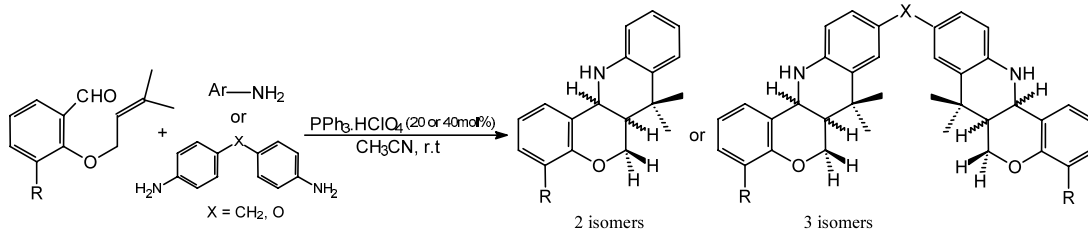


Triphenylphosphonium perchlorate as an efficient catalyst for mono- and bis-intramolecular imino Diels–Alder reactions: synthesis of tetrahydrochromanoquinolines

Tetrahedron Letters 44 (2003) 3653

Marimuthu Anniyappan, D. Muralidharan and Paramasivan T. Perumal*

Organic Chemistry Division, Central Leather Research Institute, Adyar, Chennai 600 020, India

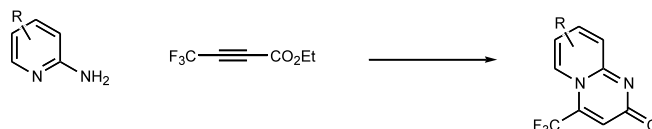


Synthesis of 4-trifluoromethylpyrido[1,2-a]pyrimidin-2-ones utilizing activated alkynoates

Tetrahedron Letters 44 (2003) 3659

Geraldine C. B. Harriman,* Shannon Chi, Min Zhang, Andrea Crowe, Robert A. Bennett and Ian Parsons
Millennium Pharmaceuticals Inc., 75 Sidney Street, Cambridge, MA 02139, USA

A facile method for the synthesis of trifluoromethyl substituted pyridopyrimidin-2-ones is described.



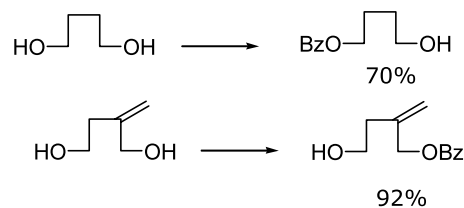
Lipase-catalyzed monoprotection of 1,4-diols in an organic solvent using vinyl benzoate as acyl transfer agent

Tetrahedron Letters 44 (2003) 3663

Pierangela Ciuffreda, Silvana Casati and Enzo Santaniello*

Dipartimento di Scienze Precliniche LITA Vialba-Università degli Studi di Milano, Via G. B. Grassi, 74-20157 Milano, Italy

Lipase from *Mucor miehei* (MML) has been selected as the most suitable enzyme to catalyze the efficient monobenzylation of 1,4-diols using vinyl benzoate as acyl transfer reagent in *tert*-butyl methyl ether. The regioselectivity of the monobenzylation of 2-substituted-1,4-diols has been studied as well.



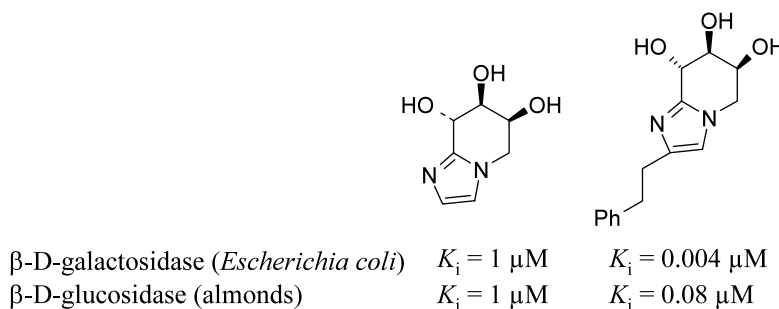
Increasing the inhibitory potency of L-arabino-imidazo-[1,2]-piperidinose towards β -D-glucosidase and β -D-galactosidase

Tetrahedron Letters 44 (2003) 3667

Estelle Dubost, Théophile Tschamber and Jacques Streith*

Ecole Nationale Supérieure de Chimie, Université de Haute-Alsace, 3 rue Alfred Werner, F68093 Mulhouse, France

Inhibition of glycosidases with imidazo-L-arabino-piperidinoses.

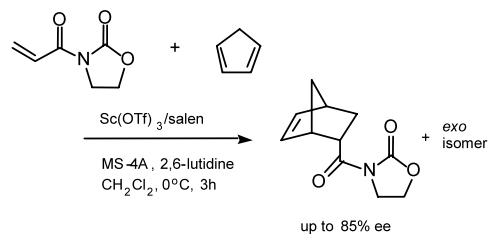


New chiral scandium(III)/bisimine and diol complexes catalyzed asymmetric Diels–Alder reaction

Tetrahedron Letters 44 (2003) 3671

Shin-ichi Fukuzawa,* Yoshitaka Komuro, Narihito Nakano and Shinya Obara

Department of Applied Chemistry, Institute of Science and Engineering, Chuo University, Kasuga, Bunkyo-ku, Tokyo 112-8551, Japan



Synthesis of 2-substituted 1-benzyl-2,3,4,5-tetrahydro-1-benzazepines by palladium catalysis. Observation of a competitive β -hydride elimination pathway

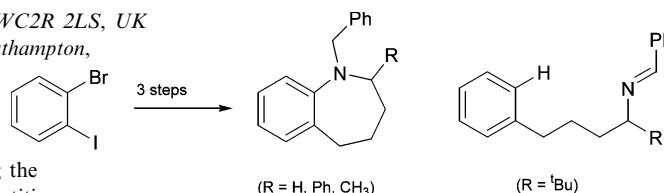
Tetrahedron Letters 44 (2003) 3675

Maryiam Qadir,^a Rachael E. Priestley,^a Thomas W. D. F. Rising,^a Thomas Gelbrich,^b Simon J. Coles,^b Michael B. Hursthouse,^b Peter W. Sheldrake,^c Neil Whittall^c and K. K. (Mimi) Hii^{a,*}

^a*Department of Chemistry, King's College London, Strand, London WC2R 2LS, UK*

^b*EPSRC National X-Ray Crystallography Service, University of Southampton, Highfield, Southampton SO17 1BJ, UK*

^c*GlaxoSmithKline, Old Powder Mills, Nr. Leigh, Tonbridge, Kent TN11 9AN, UK*



Palladium catalysis is utilized in two of the three steps constructing the seven-membered rings effectively from 2-bromo-iodobenzene. Competitive β -hydride elimination was observed in the attempted carbon–nitrogen bond formation with a sterically bulky substrate.

A new and efficient multicomponent solid-phase synthesis of 2-acylaminomethylthiazoles

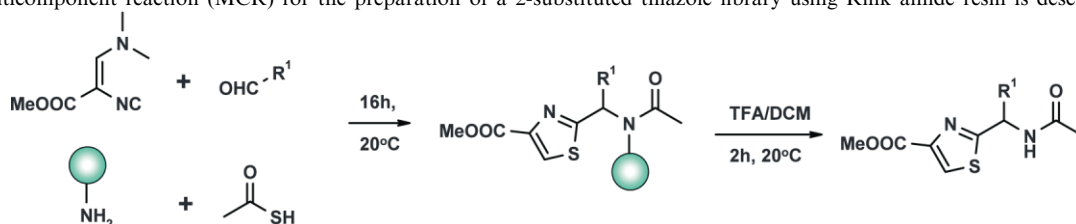
Tetrahedron Letters 44 (2003) 3679

Bernd Henkel,^a Michael Sax^b and Alexander Dömling^{a,*}

^aMorphochem AG, Gmunder Straße 37–37a, D-81379 München, Germany

^bWestfälische Wilhelms-Universität Münster, Institut für Medizinische und Pharmazeutische Chemie, Hittorfstraße 58–62, D-48149 Münster, Germany

A new multicomponent reaction (MCR) for the preparation of a 2-substituted thiazole library using Rink amide resin is described.



Synthesis of optically active bihelicenols

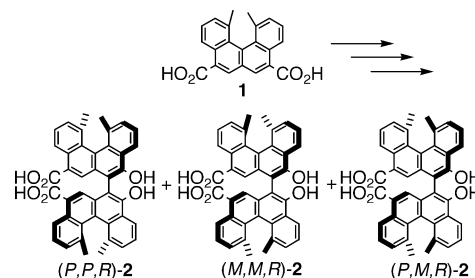
Tetrahedron Letters 44 (2003) 3683

Daisuke Nakano,^a Rie Hirano,^a Masahiko Yamaguchi^{a,*} and Chizuko Kabuto^b

^aDepartment of Organic Chemistry, Graduate School of Pharmaceutical Sciences, Tohoku University, Aoba, Sendai 980-8578, Japan

^bInstrumental Analysis Centre for Chemistry, Graduate School of Science, Tohoku University, Aoba, Sendai 980-8578, Japan

All six stereoisomer of dimethyl 5,5'-dihydroxy-1,1',12,12'-tetramethyl-[6,6']bi(benzo-[c]phenanthrenyl)-8,8'-dicarboxylate (bihelicenol) were synthesized by the oxidative coupling of methyl 8-hydroxy-1,12-dimethylbenzo[c]phenanthrene-5-carboxylate (helicenol).



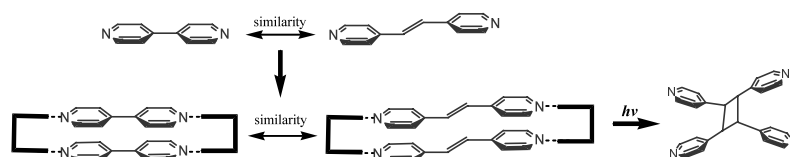
Identification of supramolecular templates: design of solid-state photoreactivity using structural similarity

Tetrahedron Letters 44 (2003) 3687

Ning Shan and William Jones*

Department of Chemistry, University of Cambridge, Lensfield Road, Cambridge CB2 1EW, UK

Structural similarity has been used to identify multifunctional templates for topochemically controlled solid-state photodimerisation.

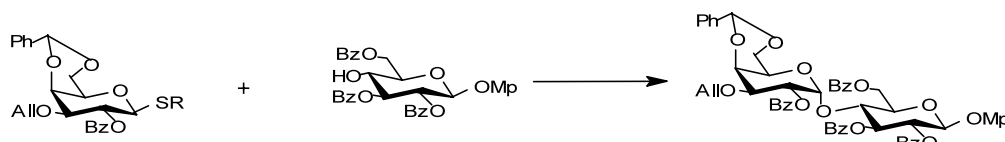


Unusual α -glycosylation with galactosyl donors with a C2 ester capable of neighboring group participation

Tetrahedron Letters 44 (2003) 3691

Langqiu Chen and Fanzuo Kong*

Research Center for Eco-Environmental Science, Academia Sinica, PO Box 2871, Beijing 100085, China

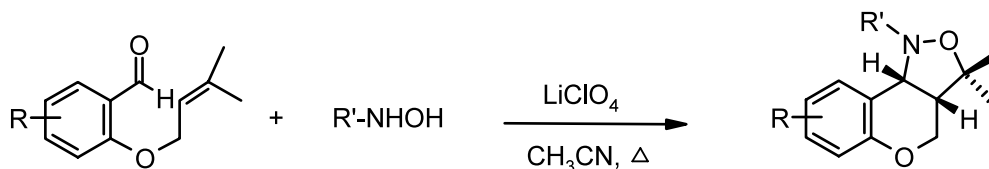


LiClO₄- or LiOTf-accelerated 1,3-dipolar cycloaddition reactions: a facile synthesis of *cis*-fused chromano[4,3-*c*]isoxazoles

J. S. Yadav,^{a,*} B. V. S. Reddy,^a D. Narsimhaswamy,^a K. Narsimulu^b and A. C. Kunwar^b

^aDivision of Organic Chemistry, Indian Institute of Chemical Technology, Hyderabad 500 007, India

^bCentre for Nuclear Magnetic Resonance, Indian Institute of Chemical Technology, Hyderabad 500 007, India

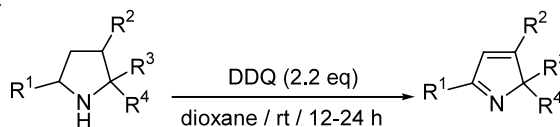


Synthesis of 2*H*-pyrroles by treatment of pyrrolidines with DDQ

Srinivasa R. Cheruku, Maniyan P. Padmanilayam and Jonathan L. Vennerstrom*

College of Pharmacy, University of Nebraska Medical Center, 986025 Nebraska Medical Center, Omaha, NE 68198-6025, USA

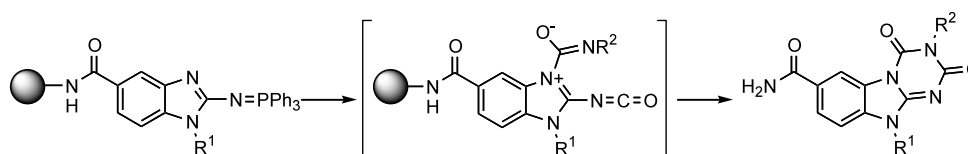
Treatment of 2,2-dialkyl-3,5-diarylpyrrolidines with DDQ in dioxane for 12–24 h at rt afforded the corresponding 2*H*-pyrroles in 55–80% overall yields.



Abnormal aza-Wittig reaction on the solid-phase: chemoselectivity studies towards the parallel synthesis of 3-aryl-2,4-dioxo-1,3,5-triazino[1,2-*a*]benzimidazoles

Cornelia E. Hoess, Adel Nefzi and Richard A. Houghten*

Torrey Pines Institute for Molecular Studies, 3550 General Atomics Court, San Diego, CA 92121, USA



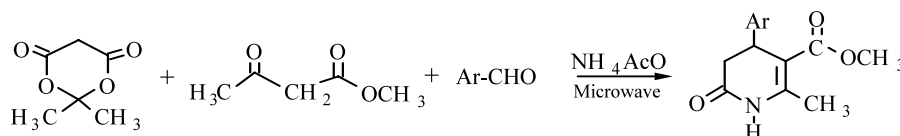
Solvent-free synthesis of 4-aryl substituted 5-alkoxycarbonyl-6-methyl-3,4-dihydropyridones under microwave irradiation

Hortensia Rodríguez,^a Margarita Suarez,^a Rolando Pérez,^a Alain Petit^b and André Loupy^{b,*}

^aLaboratorio de Síntesis Orgánica, Facultad de Química, Universidad de La Habana, 10400 Ciudad Habana, Cuba

^bLaboratoire des Réactions Sélectives sur Supports, ICMO, Université Paris-Sud, CNRS, UMR 8615, Bâtiment 410, 91405 Orsay Cedex, France

These compounds have been prepared in one-pot condensation from Meldrum's acid, methyl acetoacetate and appropriate benzaldehydes in the presence of ammonium acetate using microwave activation without solvent.

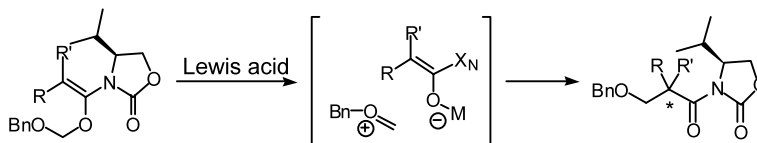


1,3-Rearrangement of ketene-*N,O*-acetals

Tatsuo Suzuki,^a Masaharu Inui,^a Seiji Hosokawa^a and
Susumu Kobayashi^{a,b,*}

^a*Faculty of Pharmaceutical Sciences, Tokyo University of Science, Ichigaya-Funagawara-machi, Shinjuku-ku, Tokyo 162-0826, Japan*

^b*Frontier Research Center for Genomic Drug Discovery, Tokyo University of Science, Noda, Chiba 278-8510, Japan*

**Pd black deposited on polypropylene sheet as a highly selective catalyst for hydrogenation of alkenes**

Shojiro Maki,^{*} Makiko Okawa, Toshimichi Makii, Takashi Hirano and Haruki Niwa

Department of Applied Physics and Chemistry, The University of Electro-communications, Chofu, Tokyo 182-8585, Japan

