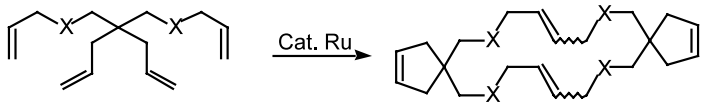
Unusual macrocyclic spirocycles from tandem metathesis reactions

Tetrahedron Letters 43 (2002) 7851

Robert A. J. Wybrow, Leigh A. Johnson, Benoit Auffray, Wesley J. Moran, Harry Adams and Joseph P. A. Harrity*

Department of Chemistry, University of Sheffield, Brook Hill, Sheffield S3 7HF, UK



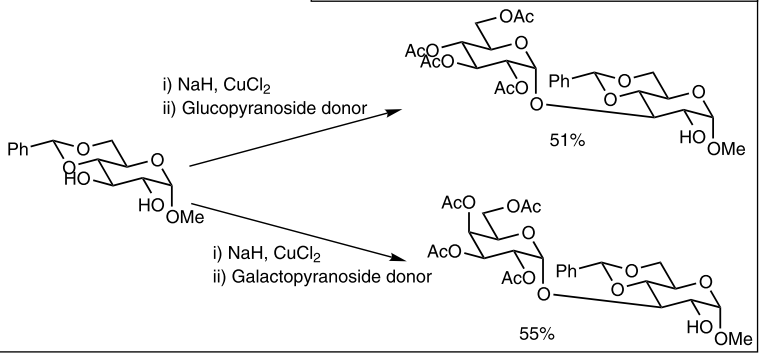
The utility of glycoside copper chelates for effecting regioselective glycosidation

Tetrahedron Letters 43 (2002) 7855

Philip G. Evans, Helen M. I. Osborn* and William G. Suthers

School of Chemistry, University of Reading, Whiteknights, Reading RG6 6AD, UK

The ability of copper chelates to effect regioselective glycosidation of the C-3 hydroxyl of methyl 4,6-*O*-benzylidene-α-D-gluco- and galactopyranosides is described.

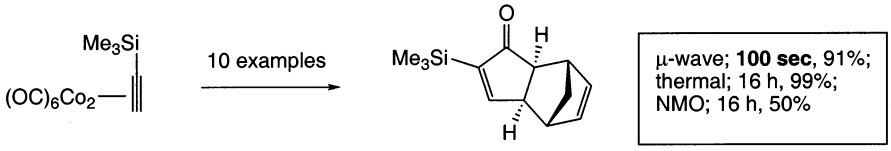


Microwave promoted Pauson–Khand reactions

Tetrahedron Letters 43 (2002) 7859

Mazhar Iqbal, Nicola Vyse, Jérôme Dauvergne and Paul Evans*

Charterhouse Therapeutics, Department of Chemistry, University of Liverpool, Liverpool L69 7ZD, UK

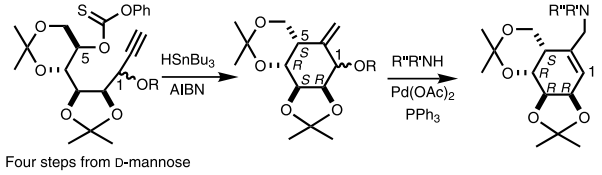


A combined, 6-*exo*-*dig* radical cyclization-palladium catalyzed allylic amination, approach to aminocarbasugar analogs: synthesis of novel *N*-substituted aminocyclitols from D-mannose

Tetrahedron Letters 43 (2002) 7863

Ana M. Gómez,* Eduardo Moreno, Serafín Valverde and J. Cristóbal López*

Instituto de Química Orgánica General, C.S.I.C., Juan de la Cierva3, 28006 Madrid, Spain

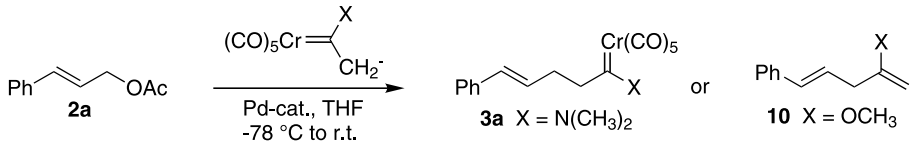


Tetrahedron Letters 43 (2002) 7867

Fischer chromium carbene complexes as nucleophiles in palladium-catalyzed allylic substitution reactions

Dušan Drahoňovský,[a] Vincent Borgo[b] and Dalimil Dvořák[a,*]

[a]*Department of Organic Chemistry, Prague Institute of Chemical Technology, Technická 5, 166 28 Prague 6, Czech Republic*
[b]*Université Blaise Pascal Clermont-Ferrand II, 34, avenue Carnot, B.P. 185, 63006 Clermont-Ferrand cedex 1, France*



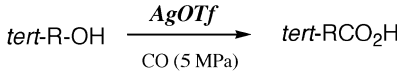
Tetrahedron Letters 43 (2002) 7871

Koch carbonylation using silver trifluoromethanesulfonate

Hajime Mori,* Aya Mori, Qiang Xu and Yoshie Souma*

National Institute of Advanced Industrial Science and Technology (AIST), 1-8-31 Midorigaoka, Ikeda, Osaka 563-8577, Japan

Tertiary alcohols were transformed into the corresponding carboxylic acids under CO atmosphere, using a catalytic amount of AgOTf.

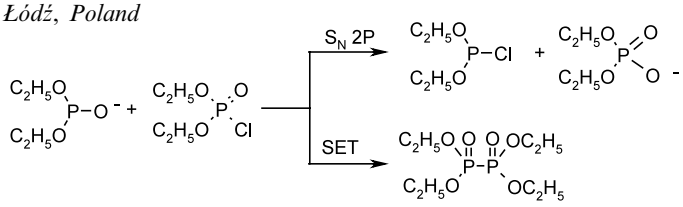


Tetrahedron Letters 43 (2002) 7875

Reinvestigation of the reaction between sodium diethyl phosphite and diethyl phosphorochloridate. Evidence for a SET process in the formation of a direct P(IV)–P(IV) bond

Ryszard W. Kinas, Andrzej Okruszek* and Wojciech J. Stec

Department of Bioorganic Chemistry, Centre of Molecular and Macromolecular Studies, Polish Academy of Sciences, Sienkiewicza 112, 90-363 Łódź, Poland



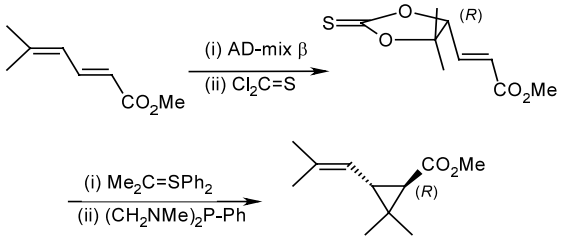
Tetrahedron Letters 43 (2002) 7881

Enantioselective synthesis of 1(*R*)-*trans*-chrysanthemic acid

Alain Krief,[a,*] Laurent Provins[a] and Alexandre Froidbise[a,b]

[a]*Laboratoire de Chimie Organique de Synthèse, 61 rue de Bruxelles, Namur B-5000, Belgium*
[b]*Fond pour la Recherche Scientifuque dans l'Industrie et l'Agriculture (F.R.I.A.), 5 rue d'Egmont, Bruxelles B-1000, Belgium*

1(*R*)-*trans*-Chrysanthemic acid has been synthesized in four steps from methyl 5-methyl-2,4-hexadienoate by sequential reaction with AD-mix β and isopropylidene diphenylsulfurane.

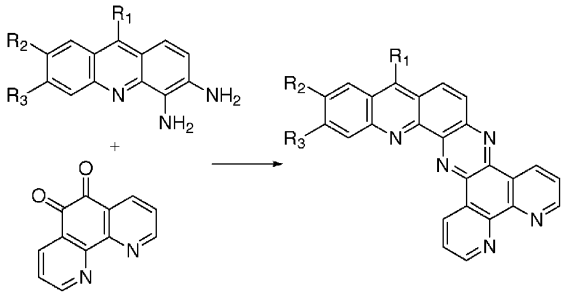


Tetrahedron Letters 43 (2002) 7883

Regioselective synthesis of angular nitrogen polyheterocycles: dipyrido[3,2-*a*:2′,3′-*c*]quinolino[2,3-*h*]phenazines

Rodica Dinica, Franck Charmantray, Martine Demeunynck* and Pascal Dumy

LEDSS, UMR CNRS 5616, Université Joseph Fourier, BP 53, 38041 Grenoble cedex 9, France



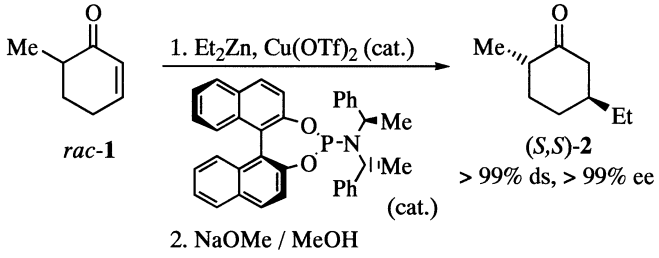
Tetrahedron Letters 43 (2002) 7887

Epimerization and kinetic resolution in copper-catalyzed enantioselective 1,4-additions of organozinc reagents to 6-substituted cyclohex-2-enones

Laura Mediavilla Urbaneja,[a] Alexandre Alexakis[b] and Norbert Krause[a,*]

[a]*Dortmund University, Organic Chemistry II, D-44221 Dortmund, Germany*

[b]*Université de Genève, Département de Chimie Organique, 30, Quai Ernest Ansemet, CH-1211 Genève 4, Switzerland*

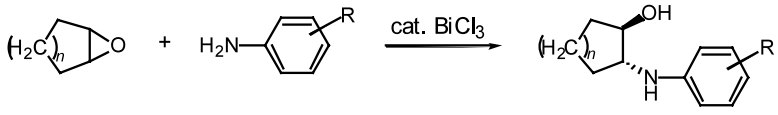


Tetrahedron Letters 43 (2002) 7891

An efficient method for the ring opening of epoxides with aromatic amines catalyzed by bismuth trichloride

Thierry Ollevier* and Guillaume Lavie-Compin

Département de chimie, Université Laval, Québec (Québec), Canada G1K 7P4



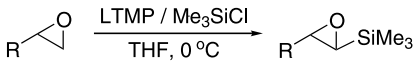
Tetrahedron Letters 43 (2002) 7895

Straightforward synthesis of α,β-epoxysilanes from terminal epoxides by lithium 2,2,6,6-tetramethylpiperidide-mediated deprotonation-in situ silylation

David M. Hodgson,[a,*] Nigel J. Reynolds[a] and Steven J. Coote[b]

[a]*Dyson Perrins Laboratory, Department of Chemistry, University of Oxford, South Parks Road, Oxford OX1 3QY, UK*

[b]*GlaxoSmithKline, Medicines Research Centre, Gunnels Wood Road, Stevenage SG1 2NY, UK*



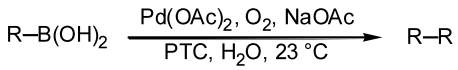
Oxidative dimerization: Pd(II) catalysis in the presence of oxygen using aqueous media

Tetrahedron Letters 43 (2002) 7899

Jay P. Parrish, Young C. Jung, Ryan J. Floyd and Kyung Woon Jung*

Department of Chemistry, University of South Florida, 4202 E. Fowler Avenue, Tampa, FL 33620-5250, USA

Reported herein is a method for the formation of symmetric biaryls and dienes via oxidative dimerization of aryl and alkenyl boronic acids. These conditions utilized Pd(II) catalysts under an oxygen atmosphere with water as the solvent. The use of phase transfer catalysts promoted efficient and mild syntheses of a wide range of materials.

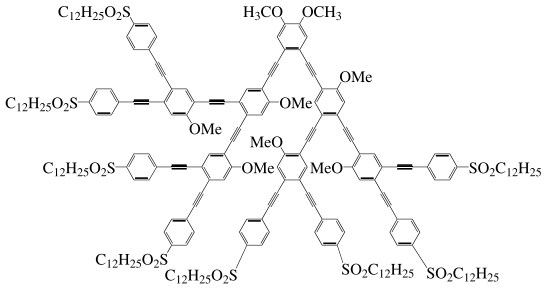


Soluble dipolar dendrimers with peripheral sulfone groups

Tetrahedron Letters 43 (2002) 7903

Meng Lu, Yongchun Pan and Zhonghua Peng*

Department of Chemistry, University of Missouri-Kansas City, 5100 Rockhill Road, Kansas City, MO 64110, USA



G3

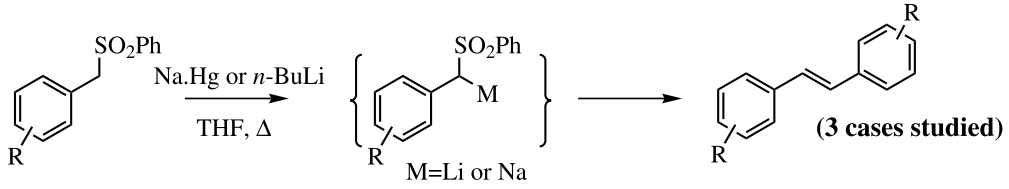
Should anionised benzylic sulfones be considered as carbenoids?

Tetrahedron Letters 43 (2002) 7907

B. Jolivet and D. Uguen*

Laboratoire de Synthèse Organique, associé au CNRS, Ecole Européenne de Chimie, Polymères et Matériaux, Université Louis Pasteur, 25 rue Becquerel, 67087 Strasbourg, France

An olefination process best explained by assuming the transient formation of a carbene species.



Ozonization and reduction of α-methylene *N*-(ethoxycarbonyl)-β-amino phosphonic esters

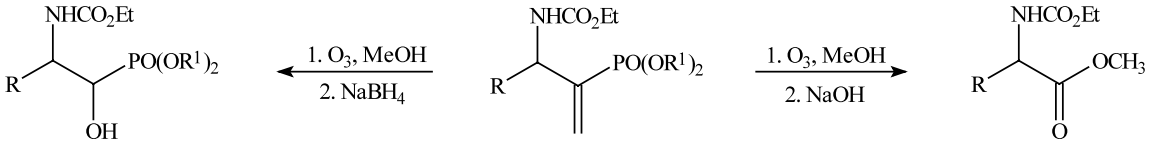
Tetrahedron Letters 43 (2002) 7913

Matteo Francavilla,[a,b] Tecla Gasperi,[a,b] M. Antonietta Loreto,[a,b,*] Paolo A. Tardella[a] and Mauro Bassetti[c]

[a]*Dipartimento di Chimica, Università 'La Sapienza', P. le Aldo Moro 5, I-00185 Roma, Italy*

[b]*Istituto CNR di Chimica Biomolecolare, Sezione Roma, Dipartimento di Chimica, Università 'La Sapienza', P. le Aldo Moro 5, I-00185 Roma, Italy*

[c]*Istituto CNR di Chimica dei Composti Organo Metallici, Sezione Roma, Dipartimento di Chimica, Università 'La Sapienza', P. le Aldo Moro 5, I-00185 Roma, Italy*



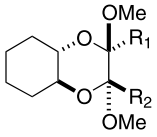
Mild, aprotic synthesis of 1,2-diacetals

Tetrahedron Letters 43 (2002) 7917

Emilio Lence, Luis Castedo* and Concepción González*

Departamento de Química Orgánica y Unidad Asociada al C.S.I.C., Facultad de Química, Universidad de Santiago de Compostela, 15782 Santiago de Compostela, Spain

A new, efficient and mild method for the formation of 1,2-diacetals is described.

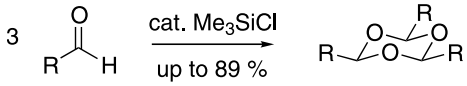


A convenient solvent-free preparation of 1,3,5-trioxanes

Tetrahedron Letters 43 (2002) 7919

Jacques Augé* and Richard Gil

UMR CNRS-UCP-ESCOM 8123, Université de Cergy-Pontoise, 5 mail Gay-Lussac, Neuville-sur-Oise, 95031 Cergy-Pontoise, France

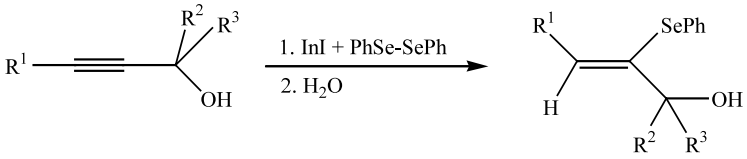


Indium(I) iodide-mediated chemio-, regio-, and stereoselective hydroselenation of 2-alkyn-1-ol derivatives

Tetrahedron Letters 43 (2002) 7921

Olga Soares do Rego Barros, Ernesto Shulz Lang, Carlos Alberto Fernandes de Oliveira, Clovis Peppe* and Gilson Zeni

Departamento de Química, Universidade Federal de Santa Maria, UFSM, Campus UFSM, Santa Maria, RS 97105-900, Brazil



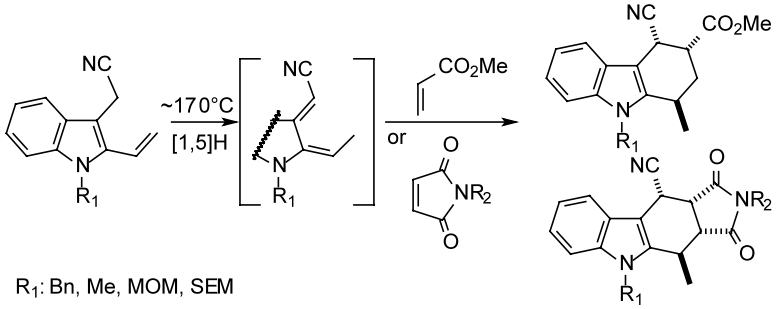
3-Cyanomethyl-2-vinylindoles as thermal indole-2,3-quinodimethane equivalents: synthesis of functionalized 1,2,3,4-tetrahydrocarbazoles

Tetrahedron Letters 43 (2002) 7925

Marie Laronze and Janos Sapi*

UMR CNRS 6013 'Isolement, Structure, Transformations et Synthèse de Produits Naturels', IFR 53 'Biomolécules' Faculté de Pharmacie, Université de Reims-Champagne-Ardenne, 51 rue Cognacq-Jay, F-51096 Reims Cedex, France

Tetrahydrocarbazoles were prepared from 3-cyanomethyl-2-vinylindoles via the intermediate indole-2,3-quinodimethanes.



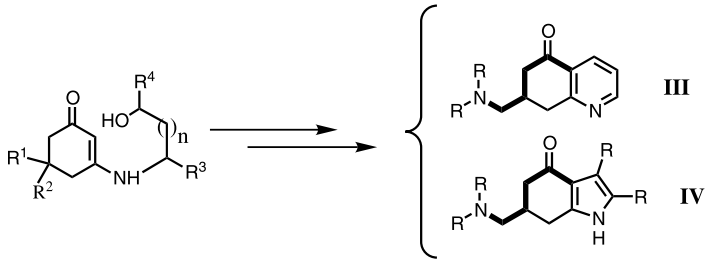
R1: Bn, Me, MOM, SEM

Tetrahedron Letters 43 (2002) 7929

New synthetic approaches to CNS drugs. A straightforward, efficient synthesis of tetrahydroindol-4-ones and tetrahydroquinolin-5-ones via palladium-catalyzed oxidation of hydroxyenaminones

Beatriz Pita, Christian F. Masaguer and Enrique Raviña*

Departamento de Química Orgánica, Laboratorio de Química Farmacéutica, Facultad de Farmacia, Universidad de Santiago de Compostela, E-15782 Santiago de Compostela, Spain



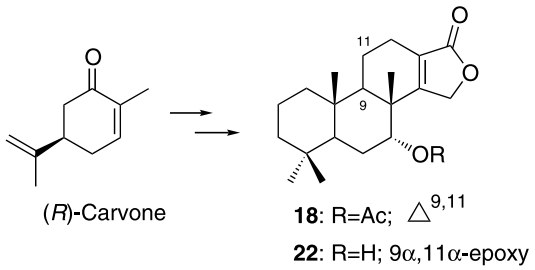
Tetrahedron Letters 43 (2002) 7933

Synthesis of oxygenated spongiane-type diterpenoids from carvone

Antonio Abad,* Consuelo Agulló, Ana C. Cuñat and Ana Belen García

Departamento de Química Orgánica, Universitat de Valencia, Dr. Moliner 50, 46100-Burjassot, Valencia, Spain

A diastereoselective synthesis of a key intermediate (**18**) for the preparation of oxygenated spongiane diterpenes (e.g. **22**) from carvone is described.

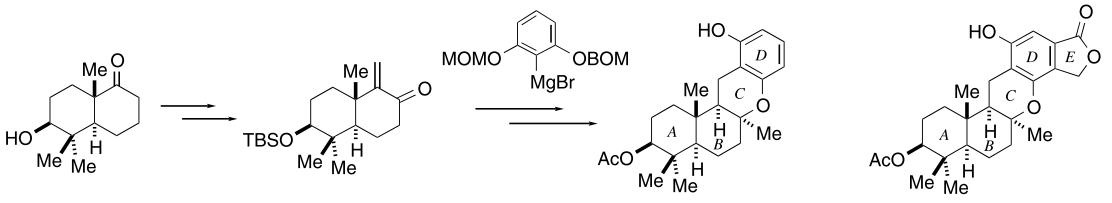


Tetrahedron Letters 43 (2002) 7937

Studies toward the total synthesis of (−)-kampanol A: an efficient construction of the ABCD ring system

Katsuhiko Iwasaki, Mari Nakatani, Munenori Inoue and Tadashi Katoh*

Sagami Chemical Research Center, Hayakawa 2743-1, Ayase, Kanagawa 252-1193, Japan

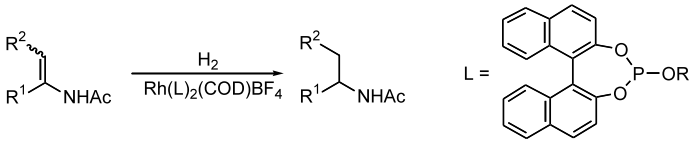


Tetrahedron Letters 43 (2002) 7941

Enantioselective hydrogenation of enamides catalyzed by chiral rhodium–monodentate phosphite complexes

Manfred T. Reetz,* Gerlinde Mehler, Andreas Meiswinkel and Thorsten Sell

Max-Planck-Institut für Kohlenforschung, Kaiser-Wilhelm-Platz 1, 45470 Mülheim/Ruhr, Germany



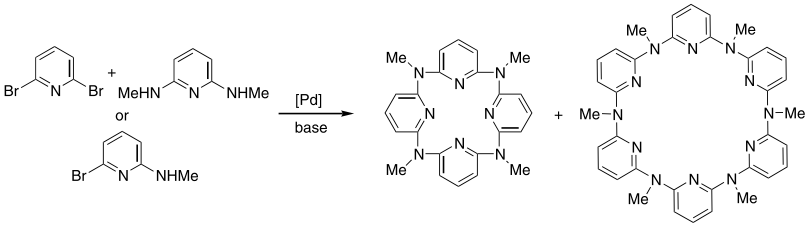
Preparation of new type of azacalixarene, azacalix[*n*](2,6)pyridine

Tetrahedron Letters 43 (2002) 7945

Yuko Miyazaki, Takaki Kanbara* and Takakazu Yamamoto*

Chemical Resources Laboratory, Tokyo Institute of Technology, 4259, Nagatsuta, Midori-ku, Yokohama 226-8503, Japan

Palladium-catalyzed aryl amination of 2,6-dibromopyridine with 2,6-bis(methylamino)pyridine or 2-bromo-6-(methylamino)pyridine gave new azacalix[*n*](2,6)pyridines ($n = 4$ and 6). Molecular structure, conformation, and complexation of the macrocycles toward zinc ion were characterized by NMR spectroscopy and X-ray crystallography.



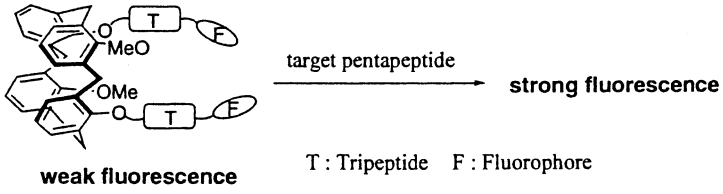
Synthesis of fluorescence-labeled peptidocalix[4]arene library and its peptide sensing ability

Tetrahedron Letters 43 (2002) 7949

Hideaki Hioki,* Miwa Kubo, Hiroko Yoshida, Motohiko Bando, Yumiko Ohnishi and Mitsuaki Kodama

Faculty of Pharmaceutical Sciences, Tokushima Bunri University, Yamashiro-cho, Tokushima 770-8514, Japan

The fluorescence spectrum of the peptidocalix[4]arene, which was found in the screening of a library against the target peptide, was dependent on the concentration of the target.

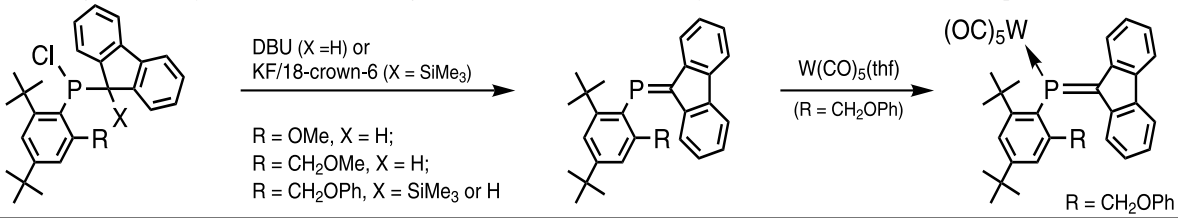


Preparation and properties of fluorenylidenephosphines bearing an electron-donating substituent, 2-alkoxy-4,6-di-*t*-butylphenyl or 2-(alkoxymethyl)-4,6-di-*t*-butylphenyl

Tetrahedron Letters 43 (2002) 7953

Kozo Toyota, Subaru Kawasaki and Masaaki Yoshifuji*

Department of Chemistry, Graduate School of Science, Tohoku University, Aoba, Sendai 980-8578, Japan



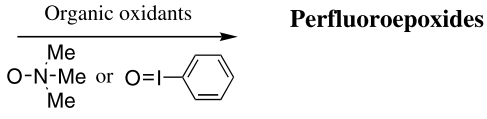
Novel epoxidation reaction of perfluoroalkenes with trimethylamine *N*-oxide and iodosylbenzene

Tetrahedron Letters 43 (2002) 7961

Taizo Ono[a,*] and Philip Henderson[b]

[a]*Molecular Structure Design Group (MOSTG), Institute for Structural and Engineering Materials, National Institutes of Advanced Industrial Science and Technology (AIST), 2266-98, Anagahora, Shimoshidami, Moriyama-ku, Nagoya 463-8560, Japan*

[b]*Air Products and Chemicals, Inc., 7201 Hamilton Blvd., Allentown, PA 18195-1501, USA*



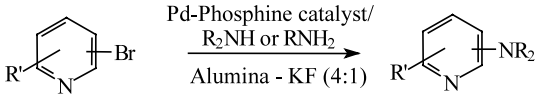
Palladium-catalysed amination of halopyridines on a KF-alumina surface

Tetrahedron Letters 43 (2002) 7967

Basudeb Basu,* Satadru Jha, Niranjan K. Mridha and Md. Mosharef H. Bhuiyan

Department of Chemistry, University of North Bengal, Darjeeling 734 430, India

Palladium-catalysed C–N hetero cross-coupling reactions between bromopyridines and amines (both primary and secondary) can be efficiently performed on a KF-alumina (basic) surface. The reaction conditions are optimised with reference to catalytic systems, solvents and the surface.

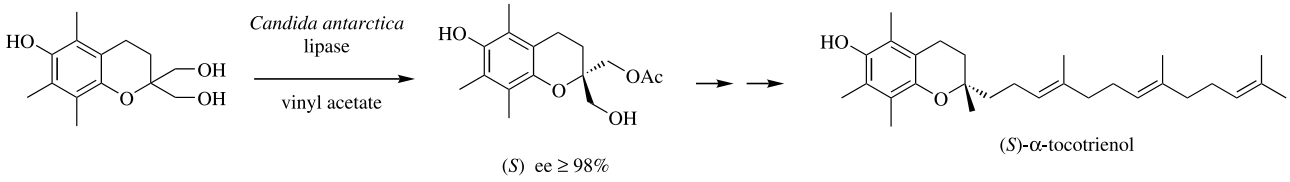


Synthesis of (*S*)-α-tocotrienol via an enzymatic desymmetrization of an achiral chroman derivative

Tetrahedron Letters 43 (2002) 7971

Robert Chênevert* and Gabriel Courchesne

Département de Chimie, Faculté des Sciences et de Génie, Université Laval, Québec, Canada, G1K 7P4

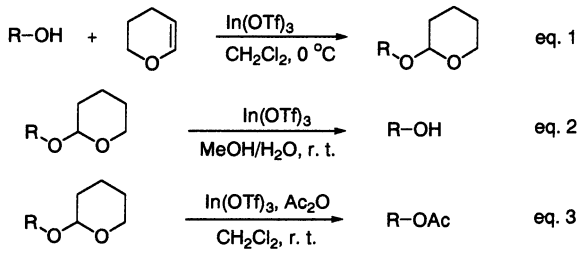


A fast and practical approach to tetrahydropyranylation and depyranylation of alcohols using indium triflate

Tetrahedron Letters 43 (2002) 7975

Tomoko Mineno*

Department of Medicinal Chemistry, School of Pharmacy, University of Mississippi, PO Box 1848, University, MS 38677-1848, USA

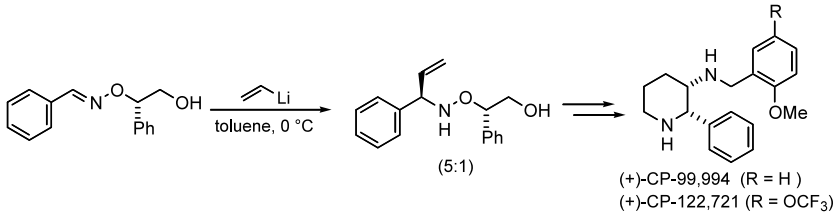


Enantioselective synthesis of NK-1 receptor antagonists (+)-CP-99,994 and (+)-CP-122,721

Tetrahedron Letters 43 (2002) 7979

Naoki Yamazaki, Masakazu Atobe and Chihiro Kibayashi*

School of Pharmacy, Tokyo University of Pharmacy and Life Science, 1432-1 Horinouchi, Hachioji, Tokyo 192-0392, Japan

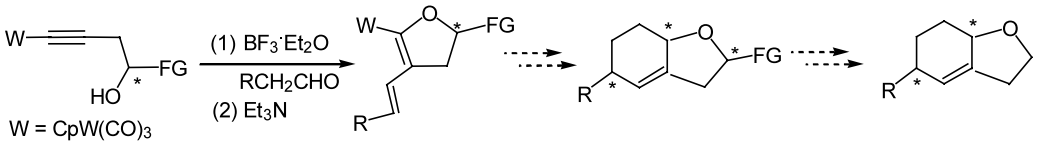


Tetrahedron Letters 43 (2002) 7983

Facile synthesis of enantiopure tricyclic furanyl derivatives via tungsten-mediated cycloalkenation reactions and Diels–Alder reactions

Heh-Lung Huang, Heh-Chang Huang and Rai-Shung Liu*

Department of Chemistry, National Tsing Hua University, Hsinchu 30013, Taiwan, ROC



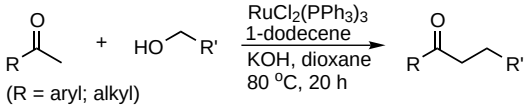
Tetrahedron Letters 43 (2002) 7987

Ruthenium-catalyzed regioselective α-alkylation of ketones with primary alcohols

Chan Sik Cho,[a,*] Bok Tae Kim,[b] Tae-Jeong Kim[b] and Sang Chul Shim[b,*]

[a]*Research Institute of Industrial Technology, Kyungpook National University, Taegu 702-701, South Korea*
[b]*Department of Industrial Chemistry, Kyungpook National University, Taegu 702-701, South Korea*

Ketones react with primary alcohols in the presence of $RuCl_2(PPh_3)_3$, KOH and a hydrogen acceptor to afford α-alkylated products.

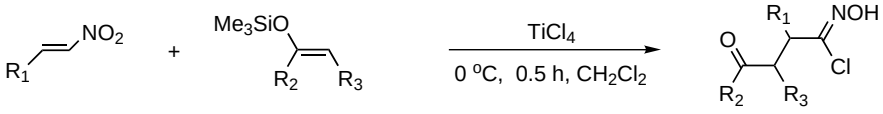


Tetrahedron Letters 43 (2002) 7991

An easy and efficient method for the synthesis of hydroximoyl chloride from nitro olefin and silyl enol ether

Ming-Chung Yan, Zhijay Tu, Chunchi Lin and Ching-Fa Yao*

Department of Chemistry, National Taiwan Normal University, 88, Sec. 4, Tingchow Road, Taipei 116, Taiwan, ROC



1 **2** **3**