

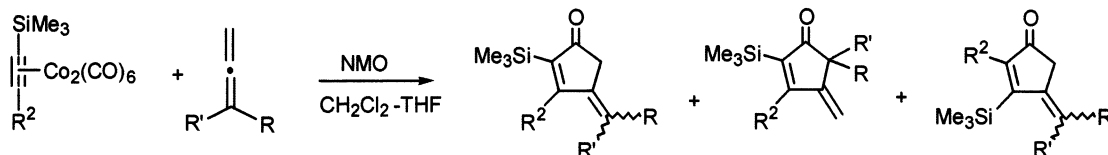
Silicon electronic effect in the Pauson–Khand reaction of alkynylsilanes with allenes

Tetrahedron Letters 42 (2001) 8157

Frédéric Antras, Mohammed Ahmar and Bernard Cazes*

Laboratoire de Chimie Organique I, associé au CNRS, Université Claude Bernard-Lyon, Bât. CPE-Lyon, 43 Bd du 11 Novembre 1918, 69622 Villeurbanne, France

The silicon β -effect accounts for the formation of β -trimethylsilyl cyclopentenones in the Pauson–Khand reaction of alkynylsilanes with allenes.



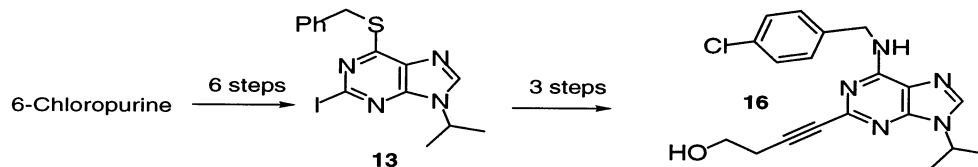
Cyclin-dependent kinase (CDK) inhibitors: development of a general strategy for the construction of 2,6,9-trisubstituted purine libraries.

Tetrahedron Letters 42 (2001) 8161

Part 1

Virginie Brun, Michel Legraverend* and David S. Grierson

Laboratoire de Pharmacochimie UMR 176 CNRS-Institut Curie, Bat 110 Centre Universitaire, 91405 Orsay, France



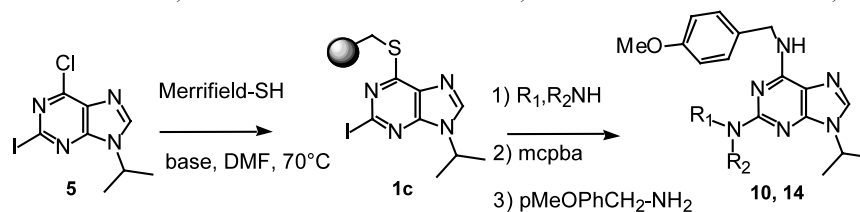
Cyclin-dependent kinase (CDK) inhibitors: development of a general strategy for the construction of 2,6,9-trisubstituted purine libraries.

Tetrahedron Letters 42 (2001) 8165

Part 2

Virginie Brun, Michel Legraverend* and David S. Grierson

Laboratoire de Pharmacochimie, UMR 176 CNRS-Institut Curie, Bât 110 Centre Universitaire, 91405, Orsay, France



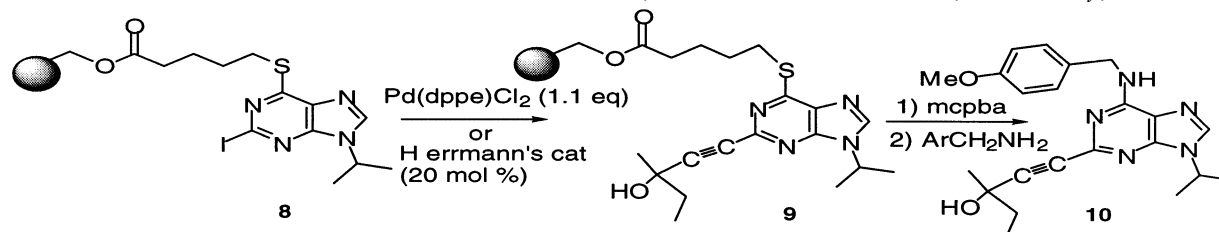
Cyclin-dependent kinase (CDK) inhibitors: development of a general strategy for the construction of 2,6,9-trisubstituted purine libraries.

Tetrahedron Letters 42 (2001) 8169

Part 3

Virginie Brun, Michel Legraverend* and David S. Grierson

Laboratoire de Pharmacochimie UMR 176 CNRS-Institut Curie, Bat 110 Centre Universitaire, 91405 Orsay, France

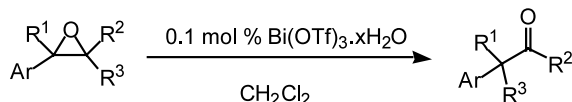


A facile and efficient method for the rearrangement of aryl-substituted epoxides to aldehydes and ketones using bismuth triflate*Tetrahedron Letters 42 (2001) 8129*

Kaushik A. Bhatia, Kyle J. Eash, Nicholas M. Leonard, Matthew C. Oswald and Ram S. Mohan*

Department of Chemistry, Illinois Wesleyan University, Bloomington, IL 61701, USA

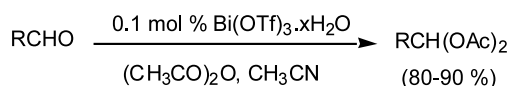
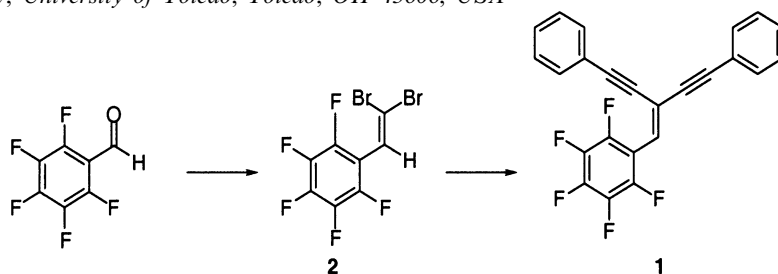
Aryl-substituted epoxides undergo smooth, regioselective rearrangement in the presence of 0.01–0.1 mol% $\text{Bi}(\text{OTf})_3 \cdot x\text{H}_2\text{O}$. The highly catalytic nature of this method coupled with the fact the reagent is relatively non-toxic, easy to handle and inexpensive make it an attractive alternative to more corrosive and toxic Lewis acids, such as $\text{BF}_3 \cdot \text{Et}_2\text{O}$, currently used to effect epoxide rearrangements.

**An efficient method for the chemoselective synthesis of acylals from aromatic aldehydes using bismuth triflate***Tetrahedron Letters 42 (2001) 8133*

Marc D. Carrigan, Kyle J. Eash, Matthew C. Oswald and Ram S. Mohan*

Department of Chemistry, Illinois Wesleyan University, Bloomington, IL 61701 USA

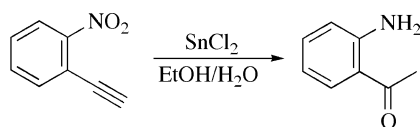
Aromatic aldehydes are smoothly converted into the corresponding acylals in good yields in the presence of 0.10 mol% $\text{Bi}(\text{OTf})_3 \cdot x\text{H}_2\text{O}$. The highly catalytic nature of bismuth triflate and the fact that it is relatively non-toxic, easy to handle and insensitive to small amounts of moisture makes this procedure especially attractive for large-scale synthesis.

**High order stacking of a perfluoro ‘Y-enyne’***Tetrahedron Letters 42 (2001) 8137*Bilal R. Kaafarani,^a A. Alan Pinkerton^b and Douglas C. Neckers^{a,*}^a*Center for Photochemical Sciences, Bowling Green State University, Bowling Green, OH 43403, USA*^b*Department of Chemistry, University of Toledo, Toledo, OH 43606, USA***Preparation of 2'-aminoacetophenones: a one-pot hydration and reduction of 1-ethynyl-2-nitrobenzenes***Tetrahedron Letters 42 (2001) 8141*

Eric Bosch* and Laura Jeffries

Southwest Missouri State University, 901 South National Avenue, Springfield, MO 65804, USA

The one-pot synthesis of 2'-aminoacetophenones is described.



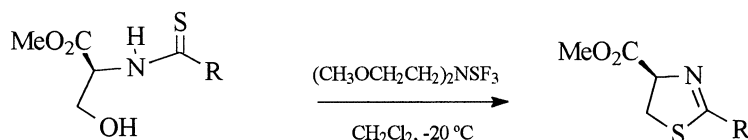
Deoxo-Fluor-mediated cyclodehydration of β -hydroxy thioamides to the corresponding thiazolines

Tetrahedron Letters 42 (2001) 8143

S. Graciela Mahler,^{a,*} Gloria L. Serra,^a Dyeison Antonow^b and Eduardo Manta^a

^a*Departamento de Química Orgánica, Cátedra de Química Farmacéutica, Facultad de Química, Universidad de la República, Av. General Flores 2124 C.C., 1157 Montevideo, Uruguay*

^b*Faculdade de Farmácia, Universidade do Rio Grande do Sul, Porto Alegre, Brazil*



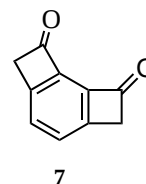
Reinvestigation relative to the regioselectivity of the aryne cycloaddition. Synthesis of the tricyclo[6.2.0.0^{2,5}]-1,5,7-triene-3,10-dione

Tetrahedron Letters 42 (2001) 8147

Philippe Maurin, Malika Ibrahim-Ouali* and Maurice Santelli*

Laboratoire de Synthèse Organique, UMR no 6009, Centre de St-Jérôme, Av. Esc. Normandie-Niemen, 13397 Marseille Cedex 20, France

A novel 'benzo-bis-cyclobutenone' is synthesized by a two-step procedure involving a [2+2] cycloaddition of a benzyne to 2-methylene-1,3-dioxepane followed by hydrolysis.



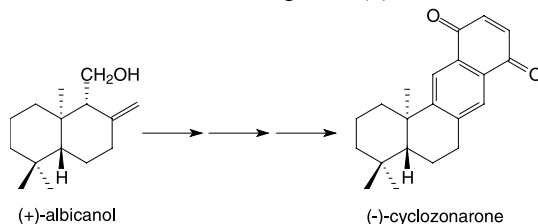
Total synthesis of the marine sesquiterpene quinone (–)cyclozonarone

Tetrahedron Letters 42 (2001) 8151

Jörg Schröder, Burkhard Matthes and Karlheinz Seifert*

Lehrstuhl für Organische Chemie I/2, NW II, Universität Bayreuth, D-95440 Bayreuth, Germany

The total synthesis of (–)-cyclozonarone was achieved starting from (+)-albicanol. The key step was a Diels–Alder reaction.



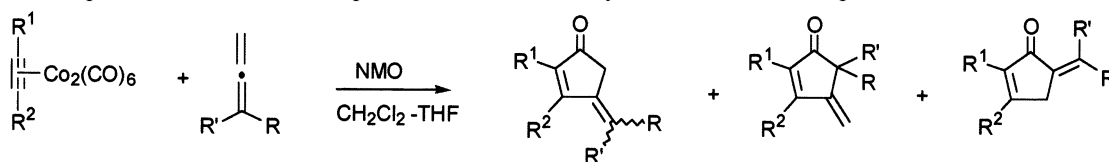
Regioselectivity in the Pauson–Khand reaction of allenic hydrocarbons

Tetrahedron Letters 42 (2001) 8153

Frédéric Antras, Mohammed Ahmar and Bernard Cazes*

Laboratoire de Chimie Organique I, associé au CNRS, Université Claude Bernard-Lyon, Bât. CPE-Lyon, 43 Bd du 11 Novembre 1918, 69622 Villeurbanne, France

The regioselectivity of the Pauson–Khand-like cocyclisation alkyne/allene/CO to 4- and 5-alkyldienecyclopent-2-enones was shown to depend on the substitution pattern of both the acetylenic and allenic components.



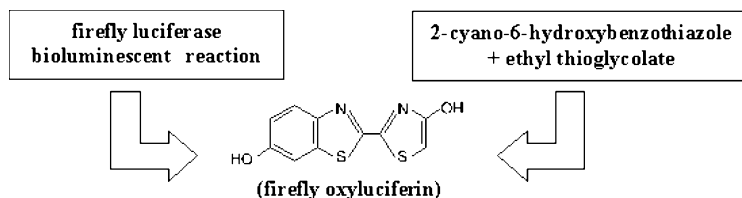
Identification of enzyme produced firefly oxyluciferin by reverse phase HPLC

Tetrahedron Letters 42 (2001) 8173

Joaquim C. G. Esteves da Silva,^{a,*} Júlia M. C. S. Magalhães^a and Rui Fontes^b

^aLAQUIPAI, Chemistry Department, Faculdade de Ciências do Porto, R. Campo Alegre 687, 4169-007 Porto, Portugal

^bBiochemistry Department (U38-FCT), Faculdade de Medicina do Porto, 4200-319 Porto, Portugal

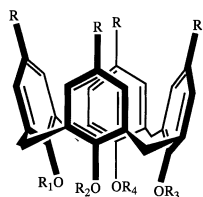


Synthesis of new chromogenic 2,2'-bithiazoylcalix[4]arenes

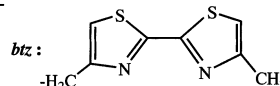
Tetrahedron Letters 42 (2001) 8177

Farhana Oueslati, Isabelle Dumazet-Bonnamour* and Roger Lamartine

Laboratoire de Chimie Industrielle, UMR CNRS 5078, Université Claude Bernard-Lyon 1, 43 Bd du 11 novembre 1918, F-69622 Villeurbanne Cedex, France



Compound	R	R ₁	R ₂	R ₃	R ₄
2	-N ₂ Ph	-btz	-H	-H	-H
3a	-N ₂ Ph	-btz	-H	-btz	-H
4a	-N ₂ Ph	-btz	-btz	-btz	-btz
3b	-N ₂ PhNO ₂	-btz	-H	-btz	-H
4b	-N ₂ PhNO ₂	-btz	-btz	-btz	-btz



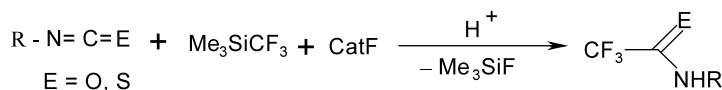
Trifluoromethylation of heterocumulenes with trimethyl(trifluoromethyl)silane in the presence of fluoride ions: synthesis of trifluoroacetamides and trifluorothioacetamides from isocyanates and isothiocyanates

Tetrahedron Letters 42 (2001) 8181

Nataliya V. Kirij,^a Yurii L. Yagupolskii,^{a,*} Nataliya V. Petukh,^a Wieland Tyrra^b and Dieter Naumann^b

^aInstitute of Organic Chemistry, National Academy of Sciences of Ukraine, UA-02094 Kiev, Ukraine

^bInstitut für Anorganische Chemie, Universität zu Köln, D-50939 Cologne, Germany

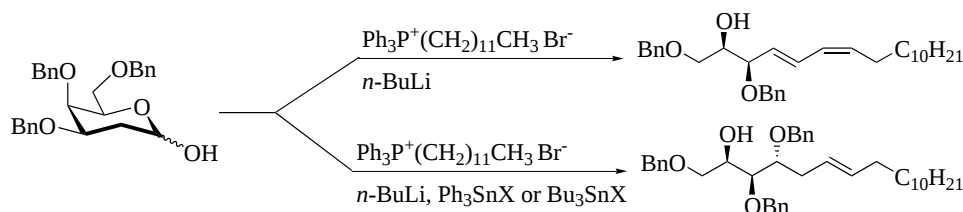


The Wittig reaction with 2-deoxysugars: the role of triphenyl and trialkyltin halides

Tetrahedron Letters 42 (2001) 8185

Valeria Costantino,* Concetta Imperatore, Ernesto Fattorusso and Alfonso Mangoni

Dipartimento di Chimica delle Sostanze Naturali, Università di Napoli 'Federico II', via D. Montesano 49, 80131 Napoli, Italy



HIV-1 replication inhibitors of the styrylquinoline class: incorporation of a masked diketo acid pharmacophore

Tetrahedron Letters 42 (2001) 8189

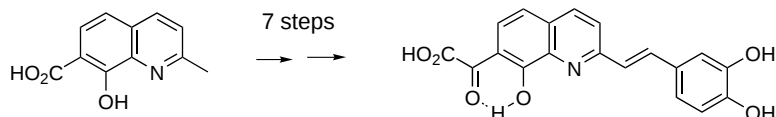
Fatima Zouhiri,^{a,c} Didier Desmaële,^{a,*} Jean d'Angelo,^{a,*} Michèle Ourevitch,^a Jean-François Mouscadet,^b Hervé Leh^{b,c} and Marc Le Bret^d

^aUnité Associée au CNRS, Faculté de Pharmacie, 5, rue J.-B. Clément, 92290 Châtenay-Malabry, France

^bUnité Associée au CNRS, Institut Gustave Roussy, PR II, 39 rue Camille Desmoulins, 94805 Villejuif, France

^cBioAlliance Pharma SA, 59 bd du Général Martial Valin, 75015 Paris, France

^dUnité Associée au CNRS, Ecole Normale Supérieure, 61 av. du Président Wilson, 94235 Cachan, France

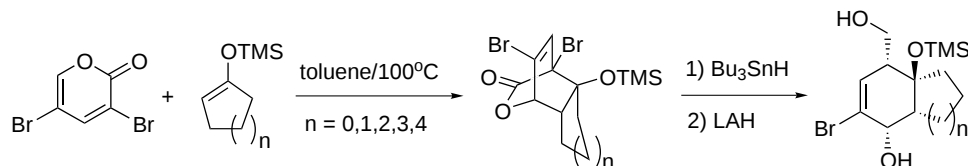


Diels–Alder cycloadditions of 3,5-dibromo-2-pyrone with cycloalkenyl silyl ethers for the synthesis of bicarbocycles

Tetrahedron Letters 42 (2001) 8193

Cheon-Gyu Cho,^{*} Yong-Woo Kim and Won-Kyum Kim

Department of Chemistry, Hanyang University, Seoul 133-791, South Korea

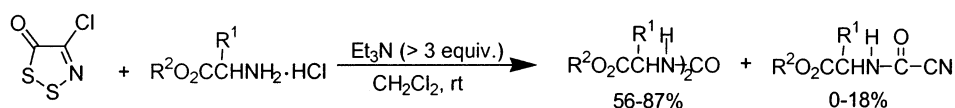


A convenient synthesis of symmetrical *N,N'*-dialkylureas by the reactions of 4-chloro-5*H*-1,2,3-dithiazol-5-one with alkylamines

Tetrahedron Letters 42 (2001) 8197

Yong-Goo Chang, Hyi-Seung Lee and Kyongtae Kim^{*}

School of Chemistry and Molecular Engineering, Seoul National University, Seoul 151-742, South Korea



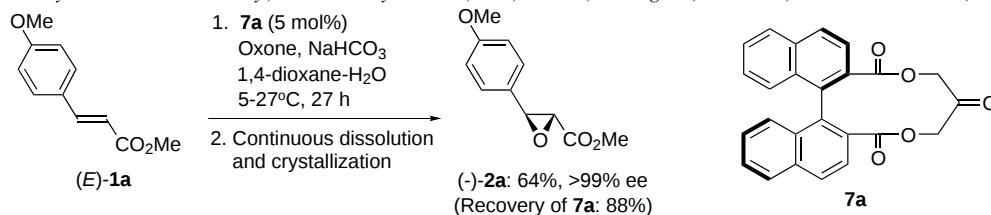
A novel synthesis of a key intermediate for diltiazem

Tetrahedron Letters 42 (2001) 8201

Masahiko Seki,^{a,*} Toshiyuki Furutani,^a Ritsuo Imashiro,^b Tooru Kuroda,^a Takeshi Yamanaka,^b Naoyuki Harada,^b Hiroaki Arakawa,^b Mari Kusama^b and Tomiki Hashiyama^b

^aProduct & Technology Development Laboratory, Tanabe Seiyaku Co., Ltd, 3-16-89, Kashima, Yodogawa-ku, Osaka 532-8505, Japan

^bMedicinal Chemistry Research Laboratory, Tanabe Seiyaku Co., Ltd, 2-2-50, Kawagishi, Toda-shi, Saitama 335-8505, Japan



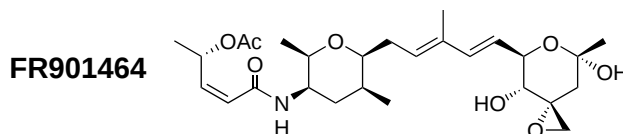
A synthesis of FR901464

Tetrahedron Letters 42 (2001) 8207

Masato Horigome,^a Hajime Motoyoshi,^b Hidenori Watanabe^b and Takeshi Kitahara^{b,*}

^aTechnical Support Section, Ueda Plant, Nisshin Pharma Inc., 751 Kamishiojiri, Ueda-City, Nagano 386-0042, Japan

^bDepartment of Applied Biological Chemistry, Graduate School of Agricultural and Life Sciences, The University of Tokyo, 1-1-1 Yayoi, Bunkyo-ku, Tokyo 113-8657, Japan



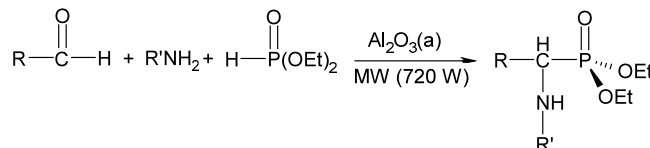
Microwave-assisted synthesis of 1-aminoalkyl phosphonates under solvent-free conditions

Tetrahedron Letters 42 (2001) 8211

Babak Kaboudin* and Rahman Nazari

Institute for Advanced Studies in Basic Sciences (IASBS), Gava Zang, Zanjan 45195-159, Iran

A simple, efficient and general method has been developed for the synthesis of 1-aminoalkyl phosphonates through a one-pot reaction of aldehydes with amines in the presence of acidic alumina under solvent-free conditions using microwave irradiation.



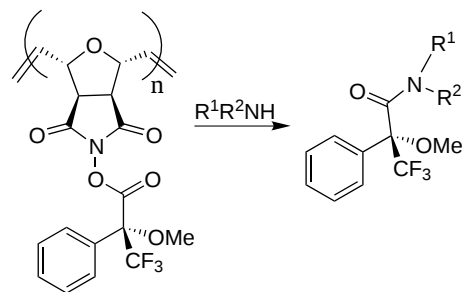
Facile and purification free synthesis of Mosher amides utilizing a ROMPgel supported reagent

Tetrahedron Letters 42 (2001) 8215

Thomas Arnould, Anthony G. M. Barrett,* Brian T. Hopkins and Frédéric J. Zécri

Department of Chemistry, Imperial College of Science, Technology and Medicine, London SW7 2AY, UK

A novel ROMPgel immobilized active ester for the purification free synthesis of Mosher amides is described.



Semi-continuous nanofiltration-coupled Heck reactions as a new approach to improve productivity of homogeneous catalysts

Tetrahedron Letters 42 (2001) 8219

Dinesh Nair,^a Justin T. Scarpello,^a Lloyd S. White,^b Luisa M. Freitas dos Santos,^c Ivo F. J. Vankelecom^d and Andrew G. Livingston^{a,*}

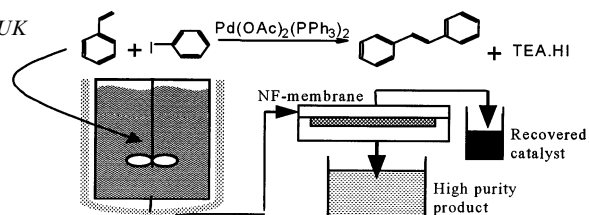
^aDepartment of Chemical Engineering, Imperial College, London SW7 2BY, UK

^bW.R. Grace & Co.-Conn., 7500 Grace Drive, Columbia, MD 21044, USA

^cGlaxoSmithKline Pharmaceuticals, New Frontiers Science Park, Harlow, Essex CM19 5AW, UK

^dCentre for Surface Chemistry and Catalysis, Katholieke Universiteit Leuven, Kardinaal Mercierlaan 92, 3001 Leuven, Belgium

Catalyst recycling and improved productivity were realised by applying nanofiltration to a Heck coupling reaction in a semi-continuous mode.



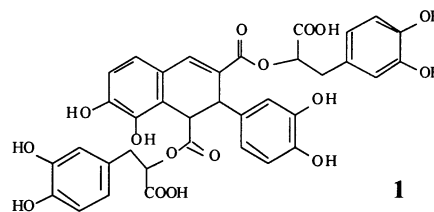
Salvianolic acid L, a potent phenolic antioxidant from *Salvia officinalis*

Tetrahedron Letters 42 (2001) 8223

Yinrong Lu* and L. Yeap Foo

Industrial Research, PO Box 31310, Lower Hutt, New Zealand

Salvianolic acid L (**1**), together with its two novel hydrolytic products, was identified in *Salvia officinalis* and exhibited strong antioxidant activities by scavenging free DPPH and superoxide anion radicals.

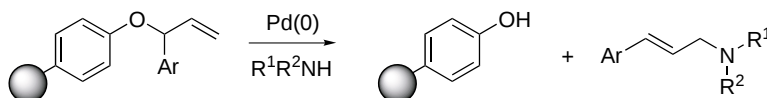


Palladium-catalysed nucleophilic release of allylic amines from a phenolic resin

Tetrahedron Letters 42 (2001) 8227

Martyn Fisher and Richard C. D. Brown*

Department of Chemistry, The University of Southampton, Highfield, Southampton SO17 1BJ, UK

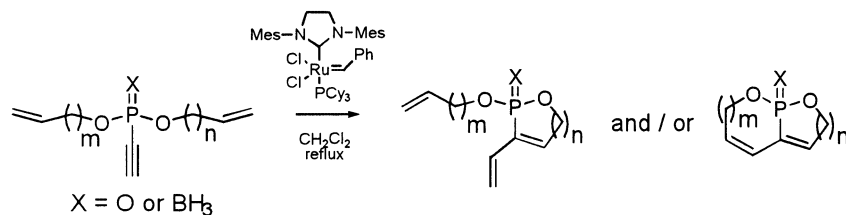


Synthesis of phosphorus mono- and bicycles by catalytic ring-closing metathesis

Tetrahedron Letters 42 (2001) 8231

Mattie S. M. Timmer, Huib Ovaa, Dmitri V. Filippov, Gijs A. van der Marel and Jacques H. van Boom*

Leiden Institute of Chemistry, Gorlaeus Laboratories, Leiden University, PO Box 9502, 2300 RA Leiden, The Netherlands

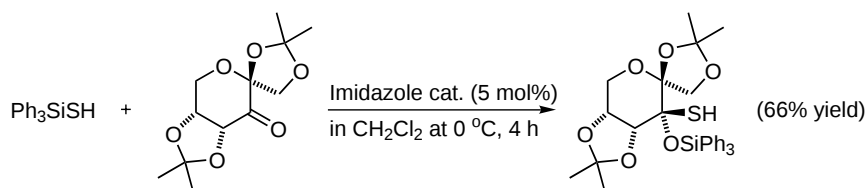


Addition of silanethiols to aldehydes and ketones: a simple route to homochiral α -siloxyalkanethiols

Tetrahedron Letters 42 (2001) 8235

Yudong Cai and Brian P. Roberts*

Department of Chemistry, University College London, 20 Gordon Street, London WC1H 0AJ, UK

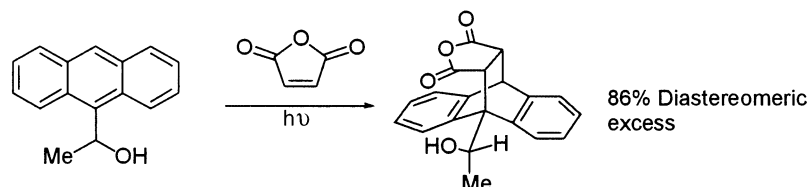


Diastereomeric control of photoinduced Diels–Alder reactions of 1-anthracen-9-yl-ethanol by hydrogen-bonding effects

Tetrahedron Letters 42 (2001) 8239

J. C. Christian Atherton and Simon Jones*

Department of Chemistry, University of Newcastle upon Tyne, Bedson Building, Newcastle upon Tyne NE1 7RU, UK



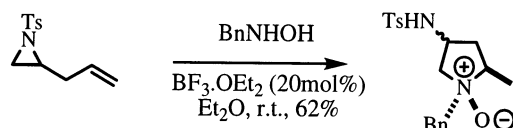
The synthesis of β -*N*-tosylamino hydroxylamines via the ring opening of *N*-tosylaziridines and their use in reverse Cope cyclisations

Tetrahedron Letters 42 (2001) 8243

Ian A. O'Neil,^{a,*} J. Chris Woolley,^a J. Mike Southern^a and Heather Hobbs^b

^a*Department of Chemistry, University of Liverpool, Crown St, Liverpool L69 7ZD, UK*

^b*GlaxoSmithKline Medicines Research Centre, Gunnels Wood Road South, Stevenage, Herts SG1 2NY, UK*



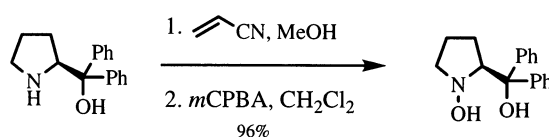
A convenient synthesis of secondary hydroxylamines

Tetrahedron Letters 42 (2001) 8247

Ian A. O'Neil,^{a,*} Ed Cleator^a and David J. Tapolczay^b

^a*Department of Chemistry, University of Liverpool, Crown St, Liverpool L69 7ZD, UK*

^b*Millennium Pharmaceuticals, The Merrifield Centre, Rosemary Lane, Cambridge CB1 3LQ, UK*



The stereospecific addition of hydroxylamines to α,β -unsaturated sulfones, nitriles and nitro compounds

Tetrahedron Letters 42 (2001) 8251

Ian A. O'Neil,^{a,*} Ed Cleator,^a J. Mike Southern,^a Jamie F. Bickley^a and David J. Tapolczay^b

^a*Department of Chemistry, University of Liverpool, Crown St, Liverpool L69 7ZD, UK*

^b*Millennium Pharmaceuticals, The Merryfield Centre, Rosemary Lane, Cambridge CB1 3LQ, UK*

