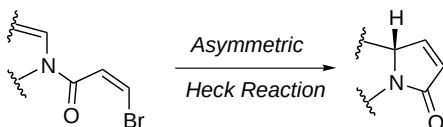


Asymmetric Heck cyclization route to indolizidine and azaazulene alkaloids: synthesis of (+)-5-epiindolizidine 167B and indolizidine 223AB

Kurt Kiewel, Mathew Tallant and Gary A. Sulikowski*

Department of Chemistry, Texas A&M University, PO Box 30012, College Station, TX 77842, USA

Tetrahedron Letters 42 (2001) 6621

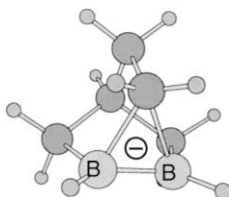


Boron analogs of the 2-norbornyl cation

Ronald R. Sauers*

Department of Chemistry and Chemical Biology, Rutgers, The State University of New Jersey, Piscataway, NJ 08854, USA

The relative stability of classical versus nonclassical mono and boron analogs of the 2-norbornyl cation was investigated by ab initio and density functional methods. Nonclassical structures were preferred in carbon bridged isoelectronic 1,2-diboranorbornyl anions having the following substituents on boron: H, CH₃ and CN. The difluoro analog preferred the classical structure. The mono-boron bridged analog preferred an open structure.



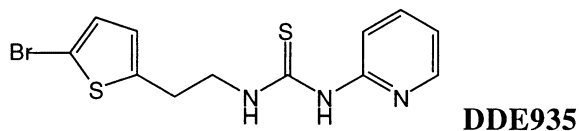
Tetrahedron Letters 42 (2001) 6625

Regiospecific synthesis, X-ray crystal structure and biological activities of 5-bromothiophenethyl thioureas

Taracad K. Venkatachalam, Elise A. Sudbeck and Fatih M. Uckun*

Departments of Chemistry, Structural Biology and Virology, Parker Hughes Institute, 2665 Long Lake Road, Roseville, MN 55113, USA

Thiophene carbamate derivatives were brominated regiospecifically and elaborated to furnish 5-bromo substituted thioureas. Among the derivatives studied for their biological activity, DDE935 inhibited HIV RT with an IC₅₀[HTLV_{IIIB}] value of 15 nM.



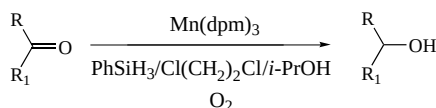
Tetrahedron Letters 42 (2001) 6629

Acceleration of the reduction of aldehydes and ketones using Mn(dpm)₃ catalyst and phenylsilane in the presence of dioxygen

Philip Magnus* and Mark R. Fielding

Department of Chemistry and Biochemistry, University of Texas at Austin, Austin, TX 78712, USA

Treatment of aldehydes and ketones with Mn(dpm)₃(cat)/phenylsilane in 2-propanol/1,2-dichloroethane in the presence of oxygen results in reduction to the corresponding alcohols.

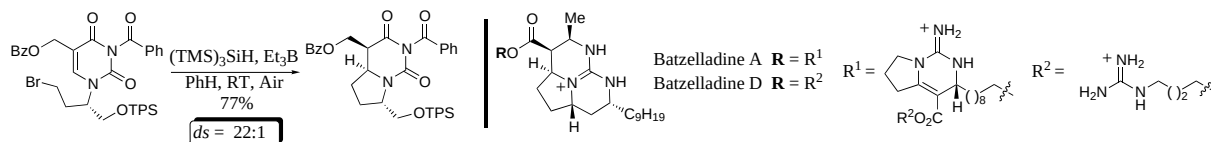


Tetrahedron Letters 42 (2001) 6633

Stereoselective construction of the azabicyclic core applicable to the biologically important polyguanidinium alkaloids batzelladine A and D using a free radical cyclization

P. Andrew Evans* and Thara Manangan

Department of Chemistry, Indiana University, Bloomington, IN 47405, USA

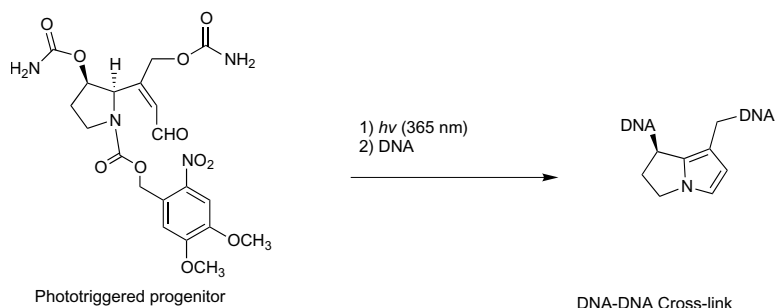


DNA cross-linking by a phototriggered pyrrolic progenitor developed from monocrotaline

Christi Kosogof,^b Jetze J. Tepe^a and Robert M. Williams^{b,*}

^aDepartment of Chemistry, Michigan State University, East Lansing, MI 48824, USA

^bDepartment of Chemistry, Colorado State University, Fort Collins, CO 80523, USA

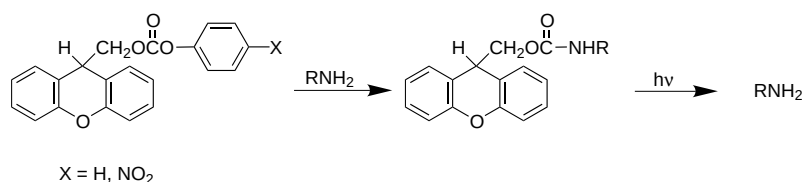


The 9-xanthenylmethyl group: a novel photocleavable protecting group for amines

Hong Du and Mary K. Boyd*

Department of Chemistry, Loyola University Chicago, Chicago, IL 60626, USA

9-Xanthenylmethyl arylcarbonate protects and photochemically deprotects primary amines in good to excellent yield.

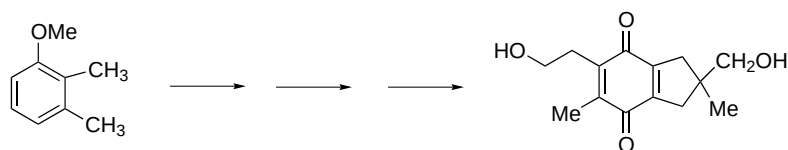


A synthesis of racemic deliquinone

George A. Kraus* and Prabir K. Choudhury

Department of Chemistry, Iowa State University, Ames, IA 50011, USA

A 10-step synthesis of deliquinone is described. A key step in the synthesis is a persulfate-mediated radical addition to a quinone.



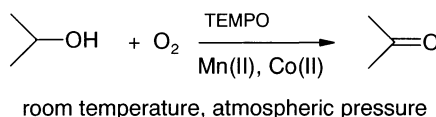
Efficient Mn–Cu and Mn–Co–TEMPO-catalysed oxidation of alcohols into aldehydes and ketones by oxygen under mild conditions

Tetrahedron Letters 42 (2001) 6651

Andrea Cecchetto,^a Francesca Fontana,^b Francesco Minisci^{a,*} and Francesco Recupero^a

^aDipartimento di Chimica del Politecnico, via Mancinelli 7, 20131 Milan Mi, Italy

^bUniversità di Bergamo, Dipartimento di Ingegneria, viale Marconi 5, 24044 Dalmine BG, Italy



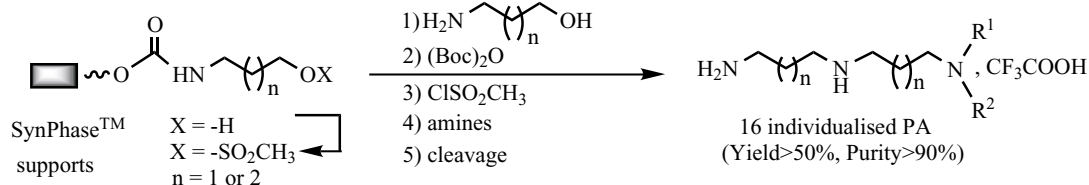
Solid-phase combinatorial synthesis of polyamine derivatives using aminoalcohol building blocks

Tetrahedron Letters 42 (2001) 6655

Jacques Renault, Marina Lebranchu, Anne Lecat and Philippe Uriac*

UPRES 2234: Synthèse et extraction de molécules à visée thérapeutique, Université de Rennes I, Faculté des Sciences Biologiques et Médicales, 2, Av. du Pr. Léon Bernard, 35043 Rennes, France

Using the 'split-mix' technique, a series of 16 individual polyamines was synthesised from commercially available aminoalcohols and amines.

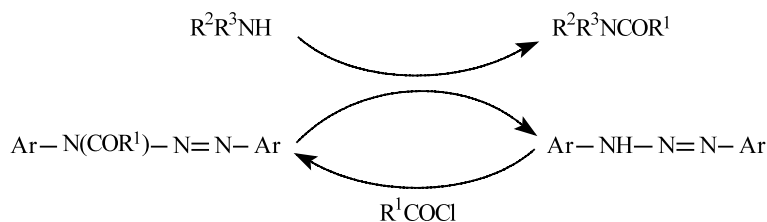


3-Acyl-1,3-diaryltriazenes as neutral and selective acylating agents

Tetrahedron Letters 42 (2001) 6659

Bogdan Štefane,* Urh Černigoj, Marijan Kočevár and Slovenko Polanc*

Faculty of Chemistry and Chemical Technology, University of Ljubljana, Aškerčeva 5, SI-1000 Ljubljana, Slovenia

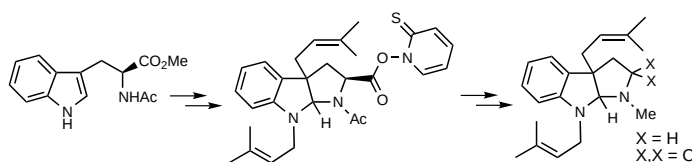


A new synthesis of (–)-debromoflustramine B, (+)-ent-debromoflustramine B and (+)-debromoflustramide B

Tetrahedron Letters 42 (2001) 6663

A. Sofia Cardoso, Natarajan Srinivasan, Ana M. Lobo* and Sundaresan Prabhakar*

Secção de Química Orgânica Aplicada, Departamento de Química, Centro de Química Fina e Biotecnologia and SINTOR-UNINOVA, campus Faculdade de Ciências e Tecnologia, Universidade Nova de Lisboa, Quinta da Torre, 2829 Monte de Caparica, Portugal

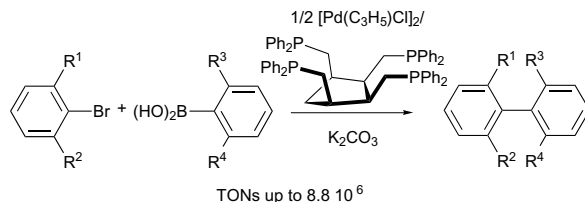


Tetrphosphine/palladium-catalysed Suzuki cross-coupling with sterically hindered aryl bromides and arylboronic acids

Tetrahedron Letters 42 (2001) 6667

Marie Feuerstein, Henri Doucet* and Maurice Santelli*

Laboratoire de Synthèse Organique associé au CNRS, Faculté des Sciences de Saint Jérôme, Avenue Escadrille
Normandie-Niemen, 13397 Marseille Cedex 20, France

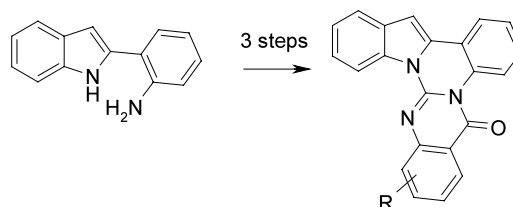


Efficient modified von Niementowski synthesis of novel derivatives of 5a,14b,15-triazabenz[a]indeno[1,2-c]-anthracen-5-one from indolo[1,2-c]quinazoline

Tetrahedron Letters 42 (2001) 6671

Lisianne Domon,^a Catherine Le Coeur,^a
Axelle Grelard,^b Valérie Thiéry^{a,*} and Thierry Besson^{a,*}

^aLaboratoire de Génie Protéique et Cellulaire, EA3169,
Groupe de Chimie Organique, U.F.R. Sciences Fondamentales
et Sciences pour l'Ingénieur, Avenue Michel Crépeau, Université
de La Rochelle, F-17042 La Rochelle cedex 1, France
^bCentre Commun d'Analyses, Université de La Rochelle,
5 Perspective de l'Océan, F-17000 La Rochelle cedex 1, France

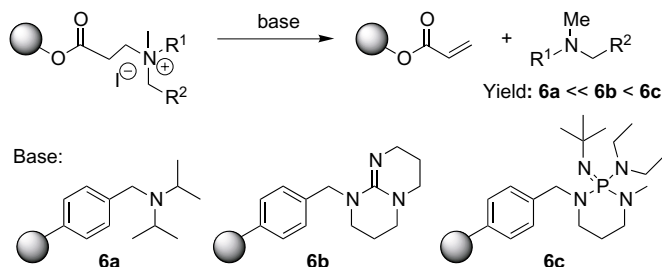


An improved two-resin method for the cleavage of tertiary amines from REM resin

Tetrahedron Letters 42 (2001) 6675

Carolina Alhambra,^a Julia Castro,^b
Jose Luis Chiara,^{a,*} Esther Fernández,^b
Alfonso Fernández-Mayoralas,^a
José M. Fiandor,^b Silvestre García-Ochoa^{b,*}
and María D. Martín-Ortega^a

^aInstituto de Química Orgánica, CSIC, Juan
de la Cierva, 3, E-28006 Madrid, Spain
^bGlaxoSmithKline S.A., P.T.M., Severo Ochoa,
2, E-28760 Tres Cantos, Madrid, Spain



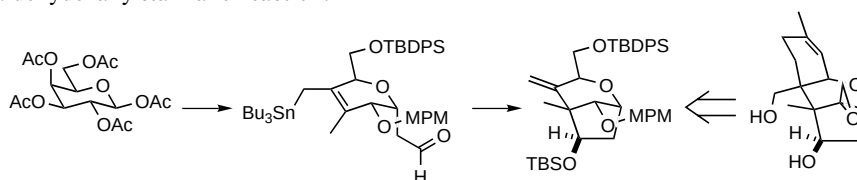
A new carbohydrate-based synthetic approach to trichothecenes. Synthesis of a bicyclic BC core of verrucarol from D-galactose

Tetrahedron Letters 42 (2001) 6679

Mikhail S. Ermolenko*

Institut de Chimie des Substances Naturelles du CNRS, Avenue de la Terrasse, 91198 Gif-sur-Yvette, France

An advanced bicyclic BC intermediate towards the total synthesis of verrucarol has been prepared from D-galactose via an intramolecular aldehyde-allylstannane reaction.



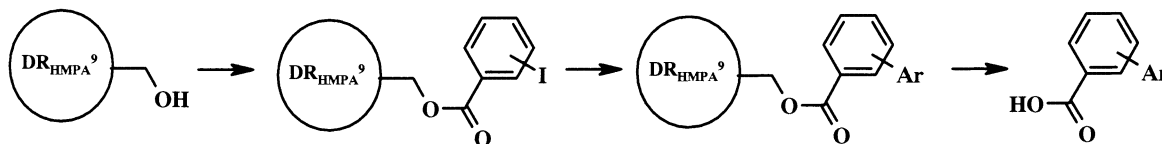
A colored dendrimer as a new soluble support in organic synthesis. Part 1: Suzuki reaction

Tetrahedron Letters 42 (2001) 6683

Jidong Zhang,* Jozsef Aszodi, Céline Chartier, Nathalie L'hermite and John Weston

Medicinal Chemistry, Aventis Pharma S. A, Aventis Research Center Paris, 102 route de Noisy, 93235 Romainville Cedex, France

A new strategy using colored dendrimer as visible soluble support has been developed for organic synthesis.



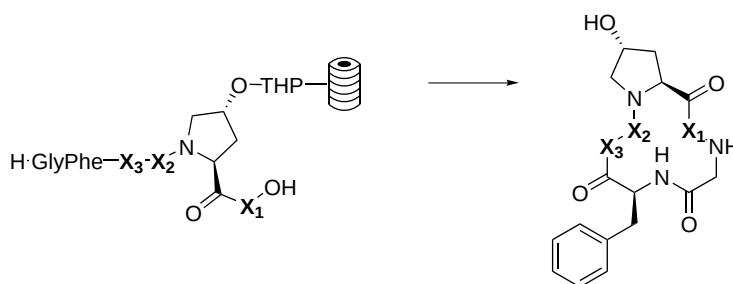
Solid-phase synthesis of hydroxyproline-based cyclic hexapeptides

Tetrahedron Letters 42 (2001) 6687

Andrea Basso and Beat Ernst*

Institute of Molecular Pharmacy, Pharmacenter, University of Basel, CH-4056 Basel, Switzerland

The synthesis of a small library of cyclic hexapeptides, designed to be Selectin antagonists, is reported. A modified THP linker is used to bind Hyp-based dipeptides to the solid support.



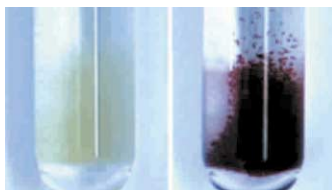
A useful and sensitive color test to monitor aldehydes on solid-phase

Tetrahedron Letters 42 (2001) 6691

Jesús Vázquez and Fernando Albericio*

Department of Organic Chemistry, University of Barcelona, E-08028 Barcelona, Spain

A rapid and sensitive color test to monitor the presence of aldehydes on solid-phase resins has been developed.

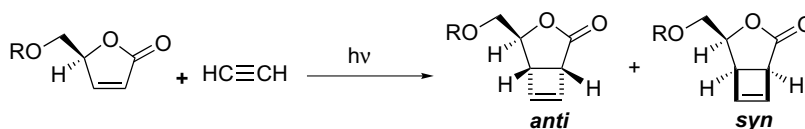


Stereoselective [2+2] photocycloaddition of acetylene to chiral 2(5H)-furanones

Tetrahedron Letters 42 (2001) 6695

Ramon Alibés, Pedro de March, Marta Figueredo, Josep Font* and Marta Racamonde

Departament de Química, Universitat Autònoma de Barcelona, 08193 Bellaterra, Spain

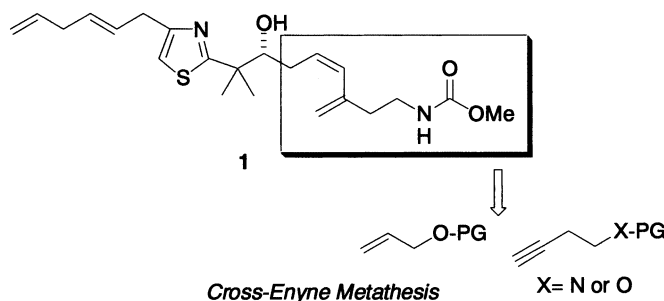


An enyne metathesis approach to the synthesis of the 1,3-diene system of mycothiazole

Tetrahedron Letters 42 (2001) 6699

Sara Rodríguez-Conesa, Paloma Candal,
Carlos Jiménez and Jaime Rodríguez*

*Departamento de Química Fundamental,
Facultad de Ciencias, Campus A Zapateira,
Universidad de A Coruña, 15071 A Coruña,
Spain*

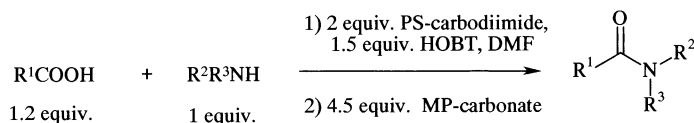


An efficient one-pot, purification-free, preparation of amides using polymer-supported reagents

Tetrahedron Letters 42 (2001) 6703

Marc Lannuzel, Marie Lamothe* and Michel Perez

Centre de Recherche Pierre Fabre, Chimie Médicinale IV, 17 Av. Jean Moulin, 81106 Castres Cédex 06, France



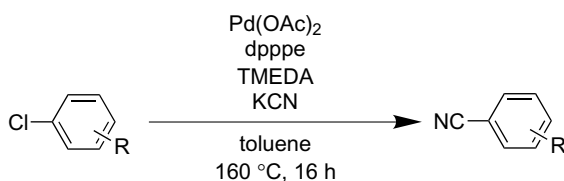
A new palladium catalyst system for the cyanation of aryl chlorides

Tetrahedron Letters 42 (2001) 6707

Mark Sundermeier,^a Alexander Zapf,^a Matthias Beller^{a,*} and
Jürgen Sans^b

^a*Institut für Organische Katalyseforschung an der Universität Rostock e.V. (IfOK), Buchbinderstraße 5–6,
D-18055 Rostock, Germany*

^b*Degussa AG, Werk Trostberg, Dr.-Albert-Frank-Straße 32, D-83303 Trostberg, Germany*



Synthesis and optical properties of a new class of pyrromethene-BF₂ complexes fused with rigid bicyclo rings and benzo derivatives

Tetrahedron Letters 42 (2001) 6711

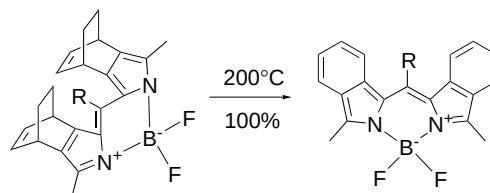
Mitsuo Wada,^a Satoshi Ito,^a Hidemitsu Uno,^b Takashi Murashima,^a Noboru Ono,^{a,*} Toshiyuki Urano^c
and Yasuteru Urano^d

^a*Department of Chemistry, Faculty of Science, Ehime University,
Matsuyama 790-8577, Japan*

^b*Advanced Instrumentation Center for Chemical Analysis,
Ehime University, Matsuyama 790-8577, Japan*

^c*Mitsubishi Chemical Corporation Yokohama Research Center,
Kamoshida-cho 1000, Aobaku, Yokohama 227-8502, Japan*

^d*Department of Bioorganic Chemistry, Faculty of Pharmaceutical
Sciences, Graduate School of Pharmaceutical Sciences,
The University of Tokyo, Hongo, Bunkyo-ku, Tokyo 113-0033, Japan*

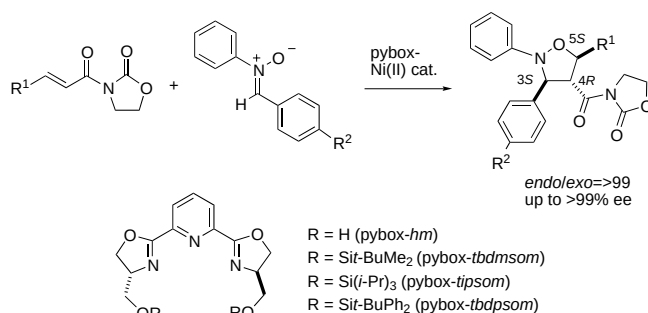


Synthesis of 2,6-bis(4*R*-trialkylsiloxymethyl-oxazoliny)pyridines and their use in catalytic asymmetric 1,3-dipolar cycloaddition reactions of nitrones and activated alkenes

Seiji Iwasa,* Shinji Tsushima, Tomoo Shimada and Hisao Nishiyama

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

Tetrahedron Letters 42 (2001) 6715



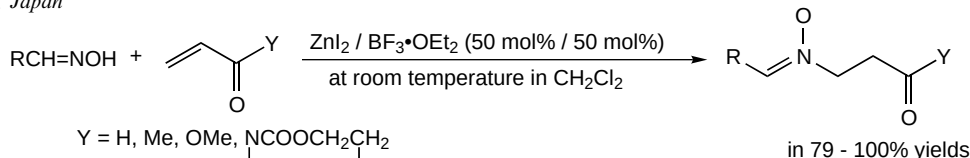
A new synthetic access to *N*-alkylated nitrones through Lewis acid-catalyzed conjugate additions of aldoximes

Kimitaka Nakama,^a Sumito Seki^a and Shuji Kanemasa^{b,*}

^aDepartment of Molecular and Material Sciences, Graduate School of Engineering Sciences, Kyushu University, 6-1 Kasugakoen, Kasuga 816-8580, Japan

^bInstitute of Advanced Material Study, CREST of JST (Japan Science and Technology), Kyushu University, 6-1 Kasugakoen, Kasuga 816-8580, Japan

Tetrahedron Letters 42 (2001) 6719

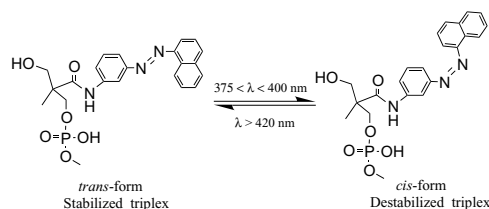


Phenylazonaphthalene as a superb photo-regulator for DNA-triplex formation

Xingguo Liang, Hiroyuki Asanuma* and Makoto Komiyama*

Research Center for Advanced Science and Technology, The University of Tokyo, 4-6-1 Komaba, Meguro-ku, Tokyo 153-8904, Japan

Tetrahedron Letters 42 (2001) 6723

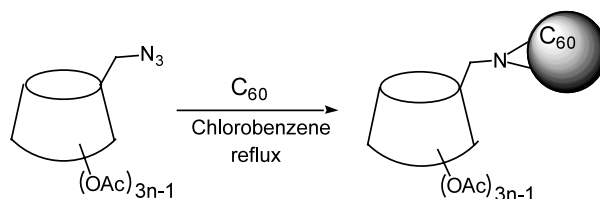


Synthesis of fullerene-cyclodextrin conjugates

De-Qi Yuan,* Kazutaka Koga, Yasuyuki Kourogi and Kahee Fujita*

Faculty of Pharmaceutical Sciences, Nagasaki University, 1-14 Bunkyo-Machi, Nagasaki 852-8521, Japan

Tetrahedron Letters 42 (2001) 6727



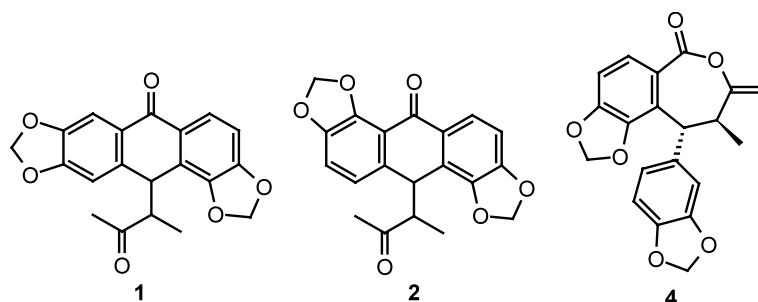
Three novel and one new lignan, chamaecypanones A, B, obtulignolide and isootobanone from the heartwood of *Chamaecyparis obtusa* var. *formosana*

Tetrahedron Letters 42 (2001) 6731

Yueh-Hsiung Kuo,* Chia-Hsien Chen and Yi-Ming Chiang

Department of Chemistry, National Taiwan University, Taipei, Taiwan, ROC

Three novel and one new lignan were isolated from the heartwood of *Chamaecyparis obtusa* var. *formosana*.



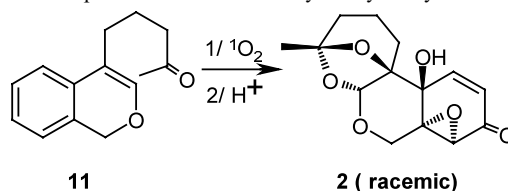
An unexpected product in the photooxygenation of a cyclic enol ether

Tetrahedron Letters 42 (2001) 6737

Jin-Ming Wu and Ying Li*

Department of Synthetic Chemistry, Shanghai Institute of Materia Medica, Shanghai Institutes for Biological Sciences, Chinese Academy of Sciences, Shanghai 200031, China

The photooxygenation product of a cyclic enol ether conjugated with an *o*-phenylene ring is a novel epoxy compound instead of a 1,2,4-trioxane analogue. The structure of the compound was elucidated by X-ray analysis.



Reduction of sulfur with borohydride exchange resin in methanol: application to rapid and selective synthesis of disulfides

Tetrahedron Letters 42 (2001) 6741

B. P. Bandgar,* L. S. Uppalla and V. S. Sadavarte

Organic Chemistry Research Laboratory, School of Chemical Sciences, Swami Ramanand Teerth Marathwada University, Nanded 431 606, Maharashtra, India

A convenient and rapid method for the synthesis of symmetrical disulfides from alkyl or aryl alkyl halides using sulfurated borohydride exchange resin (SBER) under anhydrous conditions is described. Selective transfer of sulfur to an alkyl group rather than an aryl group is achieved using this methodology.

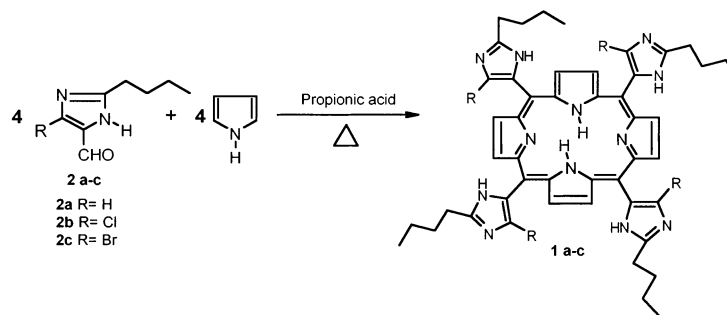
Synthesis of *meso*-tetrakis(imidazol-5-yl)porphyrins

Tetrahedron Letters 42 (2001) 6745

M. Amaravathi,^{a,*} K. S. Krishna Murthy,^a
M. Kanakalingeswara Rao^a
and B. Srinivasa Reddy^b

^aDepartment of Chemistry, Regional Engineering College, Warangal 506 004, India

^bSuven Pharmaceutical Ltd, Jeedimetla, Hyderabad, India

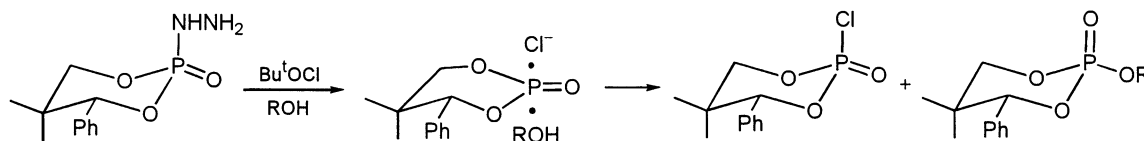


Phosphorochloridates from phosphorohydrazides with Bu^tOCl: stereospecificity, selectivity and phosphorylium ion intermediates

Tetrahedron Letters 42 (2001) 6749

Martin J. P. Harger*

Department of Chemistry, University of Leicester, Leicester LE1 7RH, UK



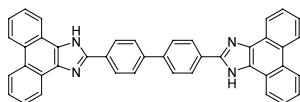
Superradiant properties of 4,4'-bis(1*H*-phenanthro[9,10-*d*]imidazol-2-yl)biphenyl and how a laser dye with exceptional stability can be obtained in only one synthetic step

Tetrahedron Letters 42 (2001) 6753

Frederik C. Krebs,^{a,*} Lars R. Lindvold^b and Mikkel Jørgensen^a

^a*The Danish Polymer Centre, Risø National Laboratory, PO Box 49, DK-4000 Roskilde, Denmark*

^b*Optics and Fluid Dynamics Department, Risø National Laboratory, PO Box 49, DK-4000 Roskilde, Denmark*



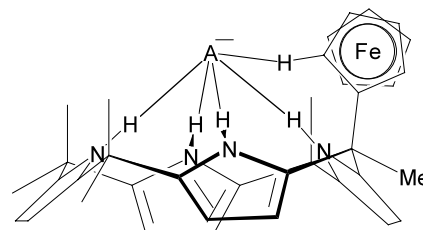
Ferrocene-substituted calix[4]pyrrole: a new electrochemical sensor for anions involving CH...anion hydrogen bonds

Tetrahedron Letters 42 (2001) 6759

Philip A. Gale,^{a,*} Michael B. Hursthouse,^a
Mark E. Light,^a Jonathan L. Sessler,^{b,*}
Colin N. Warriner^a and Rebecca S. Zimmerman^b

^a*Department of Chemistry, University of Southampton, Southampton SO17 1BJ, UK*

^b*Department of Chemistry and Biochemistry, The University of Texas at Austin, Austin, TX 78712-1167, USA*

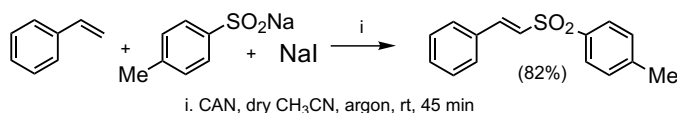


An efficient one-pot synthesis of vinyl sulphones via CAN mediated reaction of aryl sulphonates and alkenes

Tetrahedron Letters 42 (2001) 6763

Vijay Nair,* Anu Augustine, Tesmol G. George and Latha G. Nair

Organic Chemistry Division, Regional Research Laboratory (CSIR), Trivandrum 695 019, India

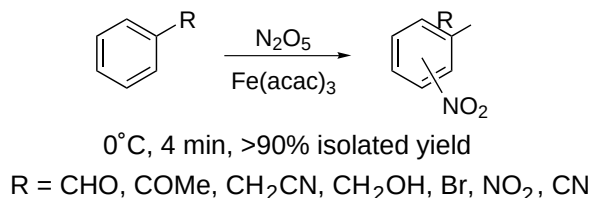


A fast and mild method for the nitration of aromatic rings

Tetrahedron Letters 42 (2001) 6767

Radoslaw R. Bak and Andrew J. Smallridge*

School of Life Sciences and Technology, Victoria University of Technology, PO Box 14428, Melbourne 8001, Australia



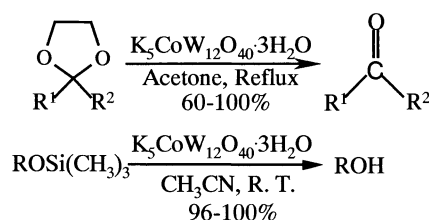
Potassium dodecatangestocobaltate trihydrate ($\text{K}_5\text{CoW}_{12}\text{O}_{40} \cdot 3\text{H}_2\text{O}$): a mild and efficient catalyst for deprotection of dioxolanes and trimethylsilyl ethers

Tetrahedron Letters 42 (2001) 6771

Mohammad H. Habibi,* Shahram Tangestaninejad,
Iraj Mohammadpoor-Baltork, Valiollah Mirkhani and
Bahram Yadollahi

Chemistry Department, Isfahan University, Isfahan 81745-117, Iran

Mild and easy deprotection of benzylic dioxolanes and trimethylsilyl ethers has been carried out in excellent yields under $\text{K}_5\text{CoW}_{12}\text{O}_{40} \cdot 3\text{H}_2\text{O}$ (0.01 molar equiv.) catalysis.



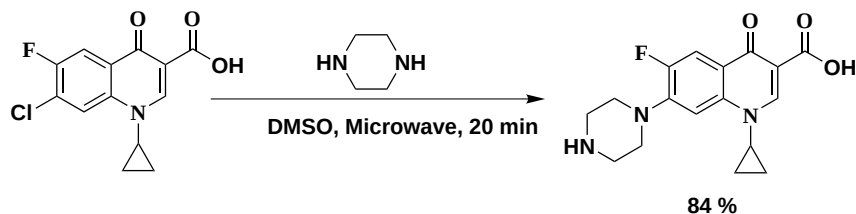
Microwave assisted amination of quinolone carboxylic acids: an expeditious synthesis of fluoroquinolone antibacterials

Tetrahedron Letters 42 (2001) 6775

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Direct amination of 7-haloquinolone-3-carboxylic acids in good to high yields under microwave conditions has been described (nine examples).



Phenanthridinium cyclobisintercalands. Fluorescence sensing of AMP and selective binding to single-stranded nucleic acids

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