Asymmetric epoxidation of allylic alcohols catalyzed by new chiral vanadium(V) complexes

Tetrahedron: Asymmetry *13 (2002) 2625*

Hsyueh-Liang Wu and Biing-Jiun Uang*

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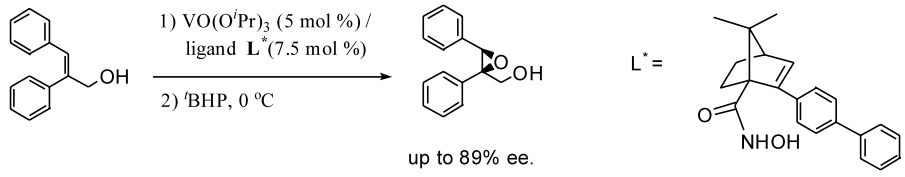

Stereoselective hydration of (*RS*)-phenylglycine nitrile by new whole cell biocatalysts

Tetrahedron: Asymmetry *13 (2002) 2629*

Martina Hensel, Sabine Lutz-Wahl and Lutz Fischer*

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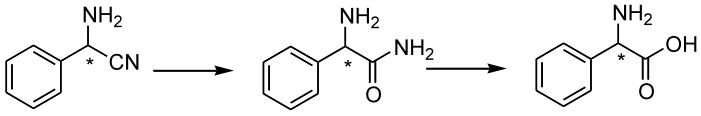

A novel and simple procedure for the enantiospecific synthesis of bridgehead norbornane thioethers and thiocyanates

Tetrahedron: Asymmetry *13 (2002) 2635*

Antonio García Martínez,[a,*] Enrique Teso Vilar,[b,*] Florencio Moreno Jiménez,[a] Ana María Álvarez García[b] and Patricia Pinilla Rodríguez[a]

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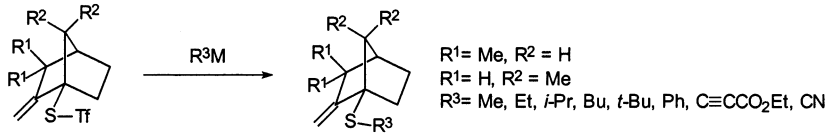
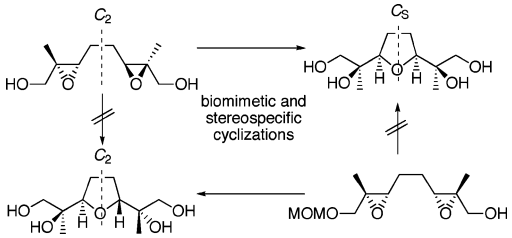


Stereospecific and biomimetic synthesis of C_S and C_2 symmetric 2,5-disubstituted tetrahydrofuran rings as central building blocks of biogenetically intriguing oxasqualenoids

Tetrahedron: Asymmetry *13 (2002) 2641*

Yoshiki Morimoto,* Toshiyuki Iwai, Yoshihiro Nishikawa and Takamasa Kinoshita

Department of Chemistry, Graduate School of Science, Osaka City University, Sumiyoshi-ku, Osaka 558-8585, Japan

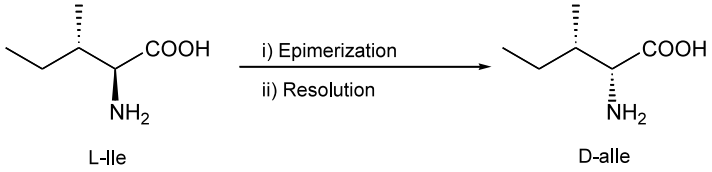


A new simple preparation of D-alloisoleucine suitable for large scale manufacture

Tetrahedron: Asymmetry *13 (2002) 2649*

Hirofumi Noda, Kenichi Sakai* and Hisamichi Murakami

R&D Division, Yamakawa Chemical Industry Co. Ltd., 1180-1 Isohara, Kitaibaraki, Ibaraki 319-1541, Japan

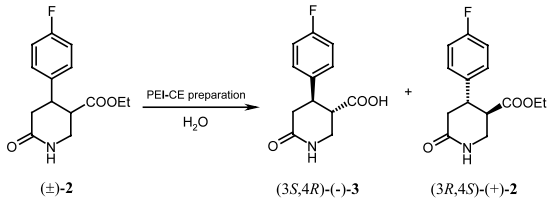


Enzymatic production of (3*S*,4*R*)-(−)-4-(4′-fluorophenyl)-6-*oxo*-piperidin-3-carboxylic acid using a commercial preparation of lipase A from *Candida antarctica*: the role of a contaminant esterase

Tetrahedron: Asymmetry *13 (2002) 2653*

Jose M. Palomo, Gloria Fernández-Lorente, Cesar Mateo, Manuel Fuentes, Jose M. Guisan* and Roberto Fernández-Lafuente*

Department of Biocatalysis, Institute of Catalysis, CSIC, Campus UAM, Cantoblanco, 28049 Madrid, Spain



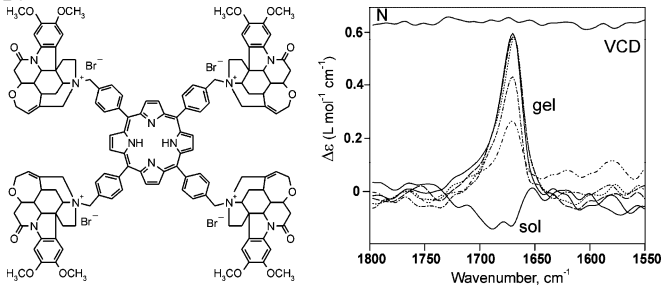
Sol-gel phase transition of brucine-appended porphyrin gelator: a study by vibrational circular dichroism spectroscopy

Tetrahedron: Asymmetry *13 (2002) 2661*

Vladimír Setnička,[a] Marie Urbanová,[b,*] Statis Pataridis,[a] Vladimír Král[a] and Karel Volka[a]

[a]*Department of Analytical Chemistry, Institute of Chemical Technology, Technická 5, 166 28 Prague 6, Czech Republic*
[b]*Department of Physics and Measurements, Institute of Chemical Technology, Technická 5, 166 28 Prague 6, Czech Republic*

The sol-gel phase of the title structure is studied by vibrational circular dichroism spectroscopy in different solvents and at different temperatures.



2-Deoxy-L-ribose from an L-*arabinono*-1,5-lactone

Tetrahedron: Asymmetry *13 (2002) 2667*

Alistair J. Stewart,[a] Richard M. Evans,[a] Alexander C. Weymouth-Wilson,[b] Andrew R. Cowley,[c] David J. Watkin[c] and George W. J. Fleet[a,*]

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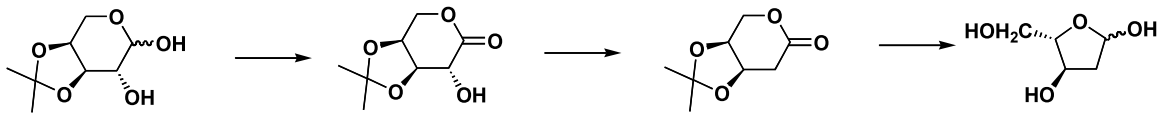
[b]*CMS Chemicals, 9 Milton Park, Abingdon, Oxford OX14 4RR, UK*
[c]*Chemical Crystallography Laboratory, Oxford University, 9 Parks Road, Oxford OX1 3QU, UK*



Synthesis and rapid enantiomeric separation of the chiral mixed ligand [5-(4-hydroxybutyl)-5′-methyl-2,2′-bipyridine]-bis(1,10-phenanthroline)-ruthenium(II) complex by electrokinetic chromatography

Tetrahedron: Asymmetry *13 (2002) 2673*

Elisabeth Holder,[a] Gabriele Trapp,[b] Jost C. Grimm,[d] Volker Schurig[c] and Ekkehard Lindner[d,*]

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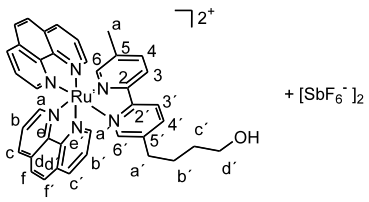
[b]*Department of Chemistry, Stanford University, Stanford, CA 94305-5080, USA*
[c]*Institute of Organic Chemistry, University of Tübingen, Auf der Morgenstelle 18, D-72076 Tübingen, Germany*
[d]*Institute of Inorganic Chemistry, University of Tübingen, Auf der Morgenstelle 18, D-72076 Tübingen, Germany*



3

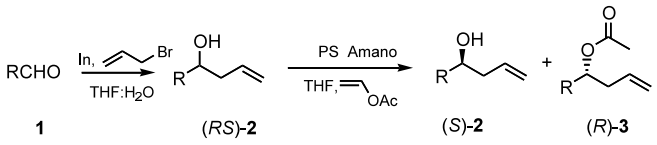
The chiral modified mixed ligand [5-(4-hydroxybutyl)-5′-methyl-2,2′-bipyridine]-bis(1,10-phenanthroline)ruthenium(II) complex **3** was synthesized, characterized and separated into its constituent enantiomers by electrokinetic chromatography (EKC) using anionic carboxymethyl-β-cyclodextrin as a chiral mobile phase additive (CMPA). The described EKC separation offers the possibility of determining enantiomeric ratios with minute sample consumption, high efficiency and excellent resolution in approximately 100 s.

Chemoenzymatic synthesis of optically active heterocyclic homoallylic and homopropargylic alcohols

Tetrahedron: Asymmetry *13 (2002) 2679*

Satwinder Singh, Subodh Kumar and Swapandeep Singh Chimni*

Department of Chemistry, Guru Nanak Dev University, Amritsar 143005, India

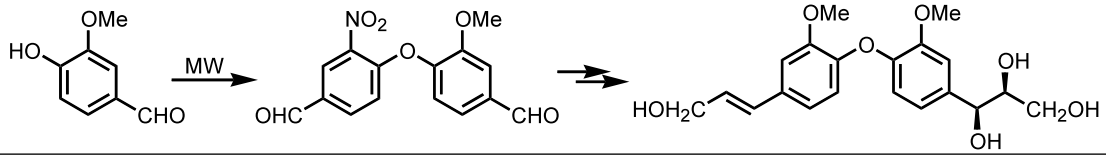


Studies on the synthesis of biphenylneolignans. Part 1: Enantioselective synthesis of (*S*,*S*)- and (*R*,*R*)-2,2′-dimethoxy-4-(3-hydroxy-1-propenyl)-4′-(1,2,3-trihydroxypropyl)diphenyl ether

Tetrahedron: Asymmetry *13 (2002) 2689*

Yi Yang,[a] Chenglu Zhang,[a,b] Guoren Yue,[a,c] Pingyan Bie[a] and Xinfu Pan[a,*]

[a]*Department of Chemistry, National Laboratory of Applied Organic Chemistry, Lanzhou University, Lanzhou 730000, PR China*
[b]*Heilongjing August First Land Reclamation University, Mishan 158308, PR China*
[c]*Department of Chemistry, Hexi University, Zhangye 734000, PR China*



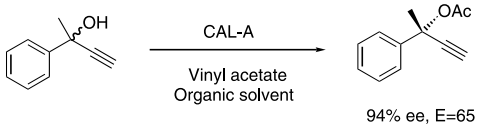
Enantioselective transesterification of a tertiary alcohol by lipase A from *Candida antarctica*

Tetrahedron: Asymmetry *13 (2002) 2693*

Sajja Hari Krishna, Mattias Persson and Uwe T. Bornscheuer*

Institute of Chemistry & Biochemistry, Department of Technical Chemistry & Biotechnology, Greifswald University, Soldmannstraße 16, D-17487 Greifswald, Germany

For the first time, the tertiary alcohol 2-phenylbut-3-yn-2-ol could be resolved by transesterification using lipase A from *Candida antarctica* (CAL-A). Under optimized conditions, 94% ee for the produced acetate at a conversion of 35% and an enantioselectivity of $E=65$ were achieved.

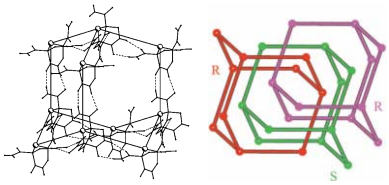


Competitive H-bonding in bicyclic bis-lactams: self-assembly in nanotubes or in unbalanced chiral threefold interpenetrated diamondoid network

Tetrahedron: Asymmetry *13 (2002) 2697*

Remir G. Kostyanovsky,[a,*] Konstantin A. Lyssenko,[b] Denis A. Lenev[a] and Irina A. Bronzova[a]

[a]*N.N. Semenov Institute of Chemical Physics, Russian Academy of Sciences, 4 ul. Kosygina, 119991 Moscow, Russia*
[b]*A.N. Nesmeyanov Institute of Organoelement Compounds, Russian Academy of Sciences, 28 ul. Vavilova, 119991 Moscow, Russia*



O-Protecting groups as long-range stereocontrolling elements in the addition of acetylides to 4-substituted quinolines

Tetrahedron: Asymmetry *13 (2002) 2703*

Giuseppe Guanti,* Sara Perrozzi and Renata Riva*

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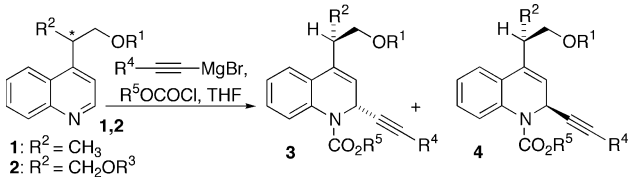
The diastereoselective addition of acetylides to racemic **1** and optically active **2** quinolines in the presence of alkyl or aryl chloroformates to give **3**,**4** in good yield and moderate to good d.r. is reported. The diastereomeric ratio is influenced strongly by the *O*-protecting groups, which exert long range stereocontrol.



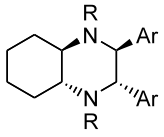
Synthesis of enantiomerically pure C_2-symmetric acyclic and cyclic 1,2-diamines via pinacol coupling of imines

Tetrahedron: Asymmetry *13 (2002) 2727*

Rita Annunziata, Maurizio Benaglia,* Marinella Caporale and Laura Raimondi*

Dipartimento di Chimica Organica e Industriale, Università di Milano via Golgi, 19-20133 Milano, Italy

The inter- and intramolecular coupling of imines promoted by SmI_2 and Lewis acids or by Zn/MsOH was studied. The intramolecular version allowed for an efficient, stereoselective synthesis of 1,2-diamines with C_2 symmetry.



On the enantioselective hydrogenation of isomeric β-acylamido β-alkylacrylates with chiral Rh(I) complexes—comparison of phosphine ligands and substrates

Tetrahedron: Asymmetry *13 (2002) 2735*

Detlef Heller,[a,*] Jens Holz,[a] Igor Komarov,[a] Hans-Joachim Drexler,[a] Jingsong You,[a] Karheinz Drauz[b] and Armin Börner[a,c,*]

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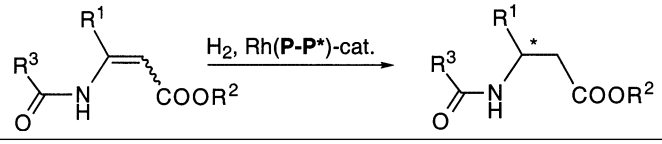

P-P*: Me-DuPHOS, Et-DuPHOS, Me-BPE, Me_4-BASPHOS, DIOP, HO-DIOP etc.