

Recent developments in asymmetric reduction of ketones with biocatalysts

Tetrahedron: Asymmetry 14 (2003) 2659

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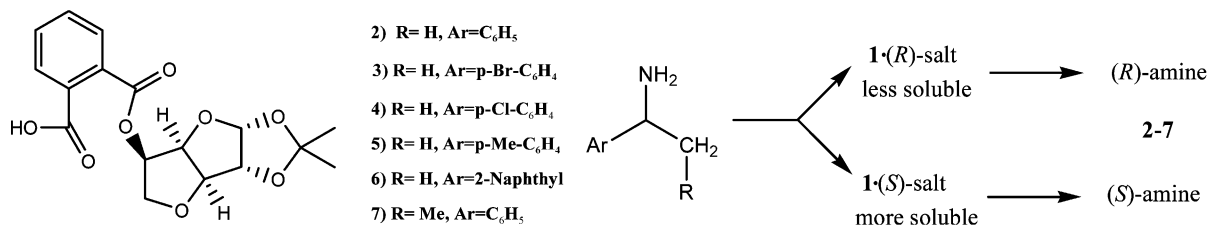
Discussions on recent developments in methodologies to control enantioselectivities of biocatalytic reductions and practical applications are included.



Resolution of 1-arylethylamines with 5-(1,2-*O*-isopropylidene-3,6-anhydro- α -D-glucufuranosyl) hydrogen phthalate

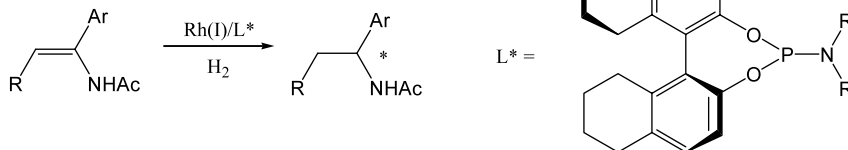
Tetrahedron: Asymmetry 14 (2003) 2683

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Speciality, Gas Based Chemicals and Processes Division, Indian Institute of Chemical Technology, Hyderabad 500 007, India


Highly enantioselective hydrogenation of enamides catalyzed by rhodium-monodentate phosphoramidite complex derived from H₈-BINOL

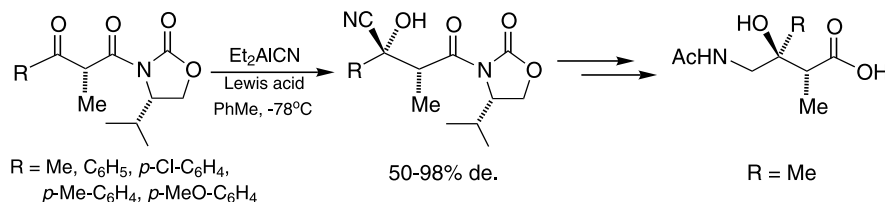
Tetrahedron: Asymmetry 14 (2003) 2687

 Xingshu Li,^{a,b} Xian Jia,^a Gui Lu,^a Terry T.-L. Au-Yeung,^a Kim-Hung Lam,^a Thomas W. H. Lo^a and Albert S. C. Chan^{a,*}
^a*Open Laboratory of Chirotechnology of the Institute of Molecular Technology for Drug Discovery and Synthesis and Department of Applied Biology and Chemical Technology, The Hong Kong Polytechnic University, Hong Kong, China*
^b*Department of Chemistry, The South-West Nationality College, Chengdu, China*


Highly diastereoselective addition of Et₂AlCN to β -keto amides derived from (*S*)-4-isopropyl-2-oxazolidinone

Tetrahedron: Asymmetry 14 (2003) 2693

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Substrate sorption into the polymer matrix of Novozym 435[®] and its effect on the enantiomeric ratio determination

Tetrahedron: Asymmetry 14 (2003) 2699

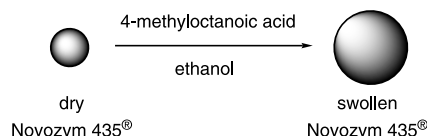
Nicole W. J. T. Heinsman,^{a,b} Carin G. P. H. Schroën,^b Albert van der Padt,^b Maurice C. R. Franssen,^{a,*} Remko M. Boom^b and Klaas van't Riet^c

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^cTNO Strategy and Planning, P.O. Box 6070, 2600 JA Delft, The Netherlands

When immobilised *Candida antarctica* lipase B (Novozym 435[®]) is used for esterification in a solventless system, sorption of substrate disturbs the accurate determination of the enantioselectivity (*E* value).



Synthesis of 16,17-*seco*-steroids with iminomethyl-2-pyridine and aminomethylene-2-pyridine structures as chiral ligands for copper ions and molecular oxygen activation

Tetrahedron: Asymmetry 14 (2003) 2705

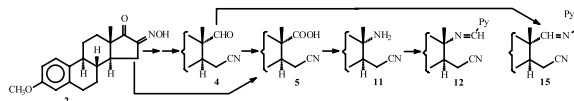
Angéla Magyar,^a Bruno Schönecker,^{b,*} János Wölfling,^a Gyula Schneider,^a Wolfgang Günther^b and Helmar Görls^c

^aDepartment of Organic Chemistry, University of Szeged, Dóm tér 8, H-6720 Szeged, Hungary

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No copper-mediated ligand hydroxylation of **12** and **15** with molecular O₂.



Diastereo- and enantioselective synthesis of *N,O*-nucleosides

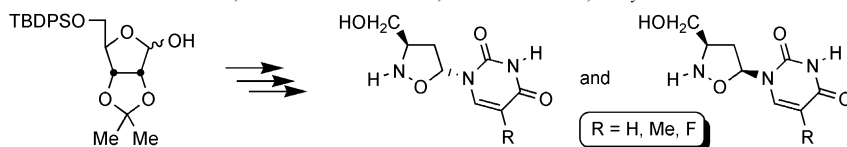
Tetrahedron: Asymmetry 14 (2003) 2717

Ugo Chiacchio,^{a,*} Antonino Corsaro,^a Daniela Iannazzo,^b Anna Piperno,^b Venerando Pistarà,^a Antonio Rescifina,^a Roberto Romeo,^b Giovanni Sindona^c and Giovanni Romeo^{b,*}

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^cDipartimento di Chimica, Università della Calabria, Arcavacata di Rende, Cosenza 87036, Italy

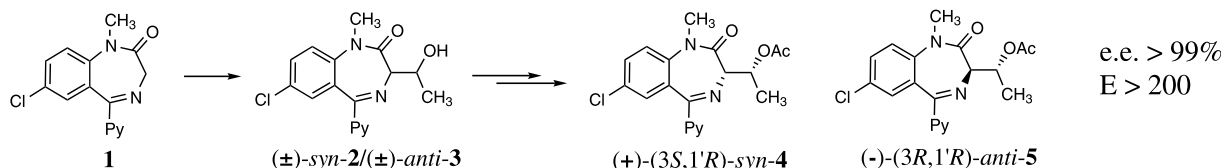


Kinetic resolution of diastereomeric racemates of 7-bromo-3-(1'-hydroxyethyl)-1-methyl-5-(2'-pyridyl)-2,3-dihydro-1*H*-1,4-benzodiazepin-2-one by immobilized CAL-B

Tetrahedron: Asymmetry 14 (2003) 2725

Maja Majerić Elenkov, Zdenko Hamersak and Vitomir Šunjić*

Ruđer Bošković Institute, Bijenička c. 54, PO Box 180, HR-10002 Zagreb, Croatia



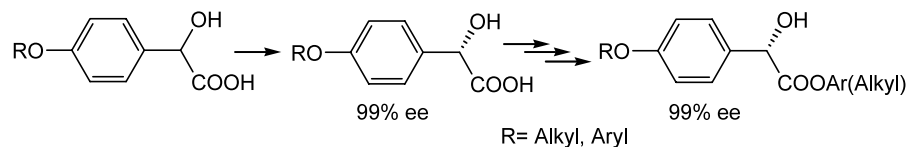
Synthesis of novel chiral dopants based on optically active *p*-substituted mandelic acids

Tetrahedron: Asymmetry 14 (2003) 2731

Andreja Lesac,^a Sanja Narančić,^a Maja Šepelj,^a Duncan W. Bruce^b and Vitomir Šunjić^{a,*}

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^b*School of Chemistry, University of Exeter, Stocker Road, Exeter EX4 4QD, UK*



Economic preparation of 1,3-diphenyl-1,3-bis(diphenylphosphino)propane: a versatile chiral diphosphine ligand for enantioselective hydrogenations

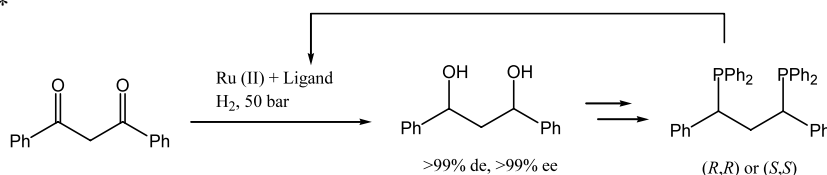
Tetrahedron: Asymmetry 14 (2003) 2739

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^c*Fachbereich Chemie der Universität Rostock, A. Einstein Straße 3a, D-18059 Rostock, Germany*



Michael reactions of unsubstituted aromatic chiral imines with substituted unsaturated acid esters

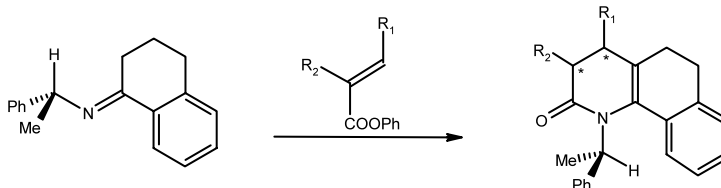
Tetrahedron: Asymmetry 14 (2003) 2747

Nicolas Monnier-Benoit,^a Ivan Jabin,^{a,*} Mohamed Selkti,^b Alain Tomas^b and Gilbert Revial^{c,*}

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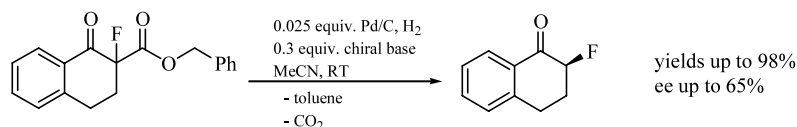
Catalytic asymmetric protonation of fluoro-enolic species: access to optically active 2-fluoro-1-tetralone

Tetrahedron: Asymmetry 14 (2003) 2755

Markus A. Baur,^{a,b} Abdelkhalek Riahi,^a Françoise Hénin^{a,*} and Jacques Muzart^a

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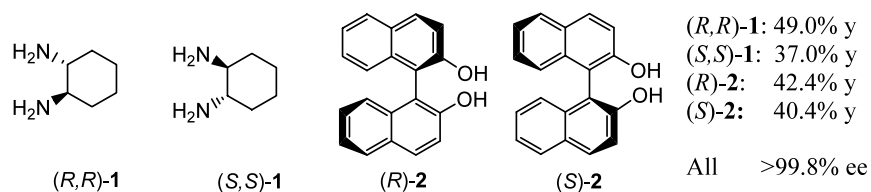


Improved resolution methods for (*R,R*)- and (*S,S*)-cyclohexane-1,2-diamine and (*R*)- and (*S*)-BINOL

Tetrahedron: Asymmetry 14 (2003) 2763

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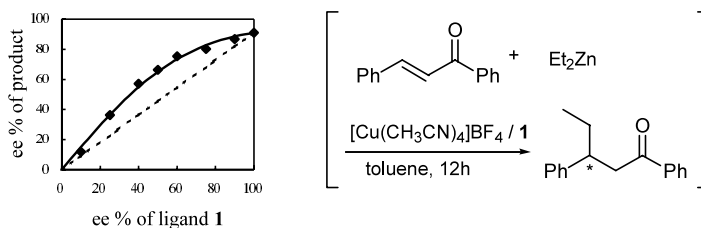


Nonlinear effects in the enantioselective 1,4-conjugate addition of diethylzinc to chalcone

Tetrahedron: Asymmetry 14 (2003) 2771

Yuanchun Hu, Xinmiao Liang, Zhuo Zheng and Xinquan Hu*

Dalian Institute of Chemical Physics, the Chinese Academy of Sciences, Dalian 116023, PR China



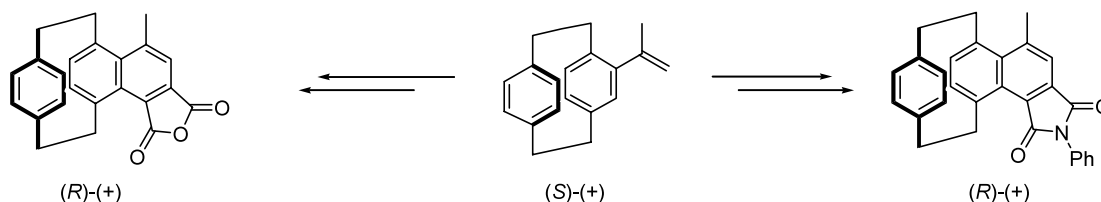
Synthesis of enantiopure helical cyclophanes containing five-membered heterocyclic rings

Tetrahedron: Asymmetry 14 (2003) 2775

Lucio Minuti,^{a,*} Aldo Taticchi,^{a,*} Daniela Lanari,^a Assunta Marrocchi^a and Eszter Gacs-Baitz^b

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^b*Central Institute for Chemistry, Hungarian Academy of Sciences, PO Box 17, 1525 Budapest, Hungary*

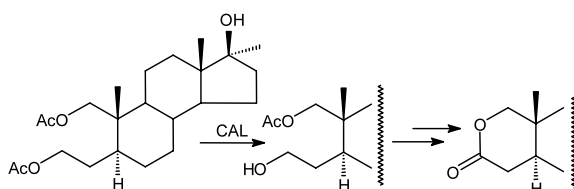


A convenient synthesis of oxandrolone through a regioselective *Candida antarctica* lipase-catalyzed transformation

Tetrahedron: Asymmetry 14 (2003) 2781

Patrizia Ferraboschi,* Diego Colombo and Paolo Prestileo

Department of Medical Chemistry, Biochemistry and Biotechnology, Università degli Studi di Milano, Via Saldini 50, 20133 Milan, Italy



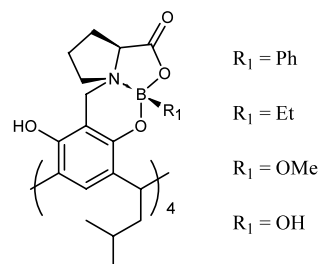
Synthesis of enantiomerically and diastereomerically pure oxazaborolo-benzoxaborininone derivatives of resorcinarene from L-proline

Tetrahedron: Asymmetry 14 (2003) 2787

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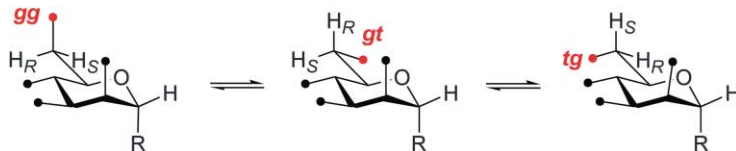


Conformational study of the hydroxymethyl group in α -D-mannose derivatives

Tetrahedron: Asymmetry 14 (2003) 2793

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Synthesis of new optically active pyridino- and pyridono-18-crown-6 type ligands containing four lipophilic chains

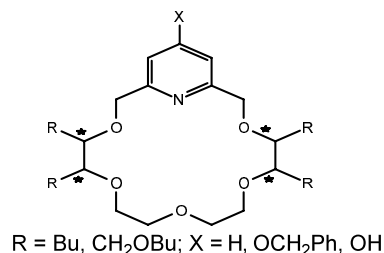
Tetrahedron: Asymmetry 14 (2003) 2803

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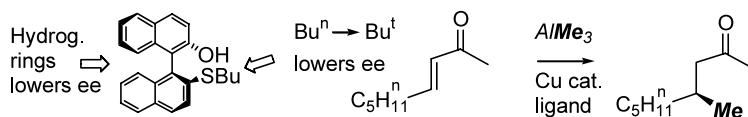
Synthesis of an octahydro-1,1'-binaphthyl thioether ligand and comparison with unhydrogenated binaphthyl analogues

Tetrahedron: Asymmetry 14 (2003) 2813

Victoria Albrow,^a Kallolmay Biswas,^a Andrew Crane,^a Nicholas Chaplin,^a Tim Easun,^a Serafino Gladiali,^b Barry Lygo^a and Simon Woodward^{a,*}

^a*School of Chemistry, The University of Nottingham, Nottingham NG7 2RD, UK*

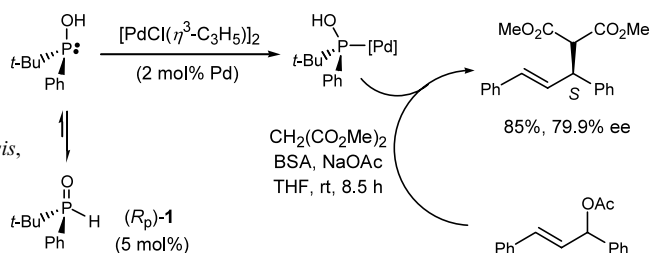
^b*Dipartimento di Chimica, Università di Sassari, Via Vienna 2, I-07100 Sassari, Italy*



Air-stable *P*-stereogenic secondary phosphine oxides as chiral monodentate ligands for asymmetric catalytic carbon–carbon bond formation

Wei-Min Dai,* Kelly Ka Yim Yeung, Wa Hung Leung and Richard K. Haynes

Department of Chemistry and Open Laboratory of Chirotechnology of The Institute of Molecular Technology for Drug Discovery and Synthesis, The Hong Kong University of Science and Technology, Clear Water Bay, Kowloon, Hong Kong SAR, China

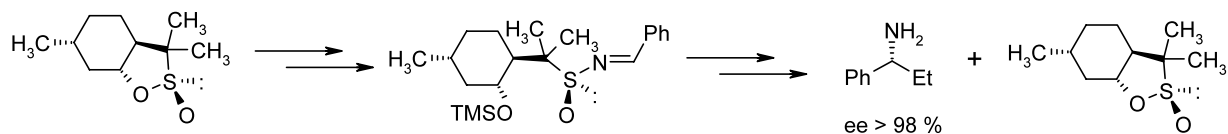


Tetrahedron: Asymmetry 14 (2003) 2821

New, recoverable and highly effective sulfinyl chiral auxiliary

Robert Kawęcki*

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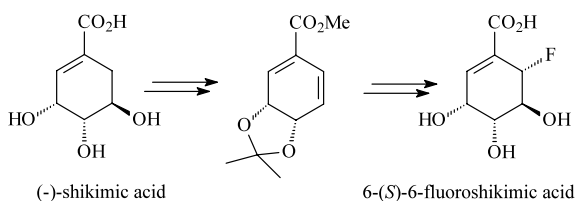
Tetrahedron: Asymmetry 14 (2003) 2827

Synthesis of (6*S*)-6-fluoroshikimic acid

Chuanjun Song, Shende Jiang and Gurdial Singh*

Department of Chemistry, University of Sunderland, Sunderland, SR1 3SD, UK

(6*S*)-6-Fluoroshikimic acid **2** and (6*R*)-6-hydroxyshikimic acid **16** have been synthesised via an OsO_4 -catalysed dihydroxylation of diene **8**, which was derived from (–)-shikimic acid **1**.

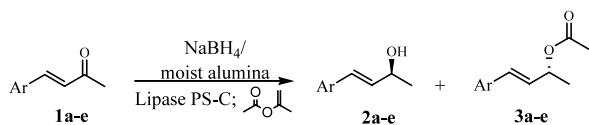


Tetrahedron: Asymmetry 14 (2003) 2833

One-pot synthesis and resolution of chiral allylic alcohols

Ahmed Kamal,* Mahendra Sandbhor, Ahmad Ali Shaik and V. Sravanthi

Biotransformation Laboratory, Division of Organic Chemistry, Indian Institute of Chemical Technology, Hyderabad 500 007, India



Tetrahedron: Asymmetry 14 (2003) 2839