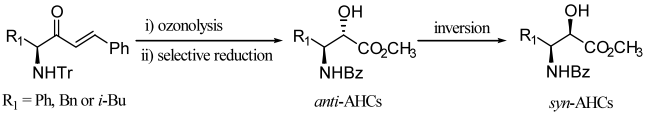
A practical diastereoselective synthesis of β-amino-α-hydroxy carboxylates

Tetrahedron: Asymmetry *14 (2003) 3639*

Jae-Mok Lee, Hyun-Suk Lim, Kyung-Chang Seo and Sung-Kee Chung*

Department of Chemistry, Division of Molecular and Life Sciences, Pohang University of Science and Technology, Pohang 790-784, Republic of Korea

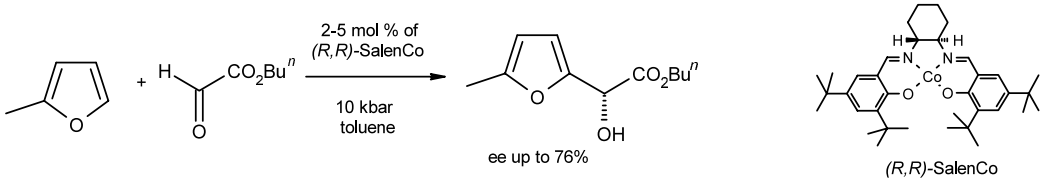


(Salen)Co(II) complex—an efficient catalyst for the high-pressure Friedel–Crafts reaction of 2-methylfuran with alkyl glyoxylates

Tetrahedron: Asymmetry *14 (2003) 3643*

Piotr Kwiatkowski,[a] Elżbieta Wojaczyńska[a] and Janusz Jurczak[a,b,*]

[a]*Institute of Organic Chemistry, Polish Academy of Sciences, Kasprzaka 44/52, 01-224 Warsaw, Poland*
[b]*Department of Chemistry, Warsaw University, Pasteura 1, 02-093 Warsaw, Poland*

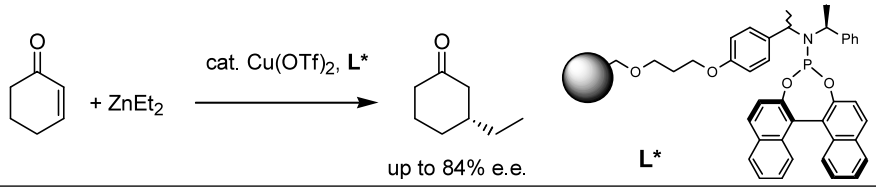


An insoluble polymer-bound phosphoramidite for the copper-catalysed enantioselective 1,4-addition of $ZnEt_2$ to 2-cyclohexenone

Tetrahedron: Asymmetry *14 (2003) 3647*

Alessandro Mandoli,[a] Massimo Calamante,[a] Ben L. Feringa[b] and Piero Salvadori[a,*]

[a]*Dipartimento di Chimica e Chimica Industriale, Università di Pisa and C.N.R.–I.C.C.O.M. (Sezione di Pisa), Via Risorgimento, 35–56126 Pisa, Italy*
[b]*Laboratory of Organic Chemistry, Strating Institute, University of Groningen, Nijenborgh 4, 9747 AG Groningen, The Netherlands*

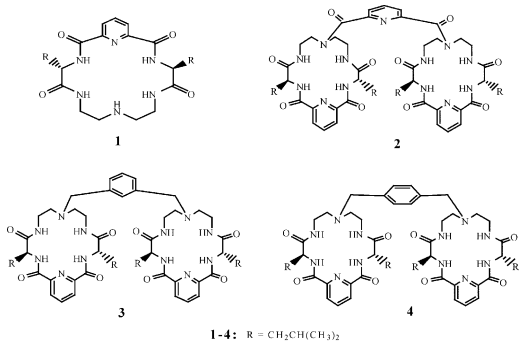


Homochiral molecular tweezers as hosts for the highly enantioselective recognition of amino acid derivatives

Tetrahedron: Asymmetry *14 (2003) 3651*

Can-Ping Du,[a,b] Jing-Song You,[a,b] Xiao-Qi Yu,[a,b,*] Chang-Lu Liu,[a,b] Jing-Bo Lan[a,b] and Ru-Gang Xie[a,b,*]

[a]*Department of Chemistry, Sichuan University, Chengdu 610064, PR China*
[b]*Sichuan Key Laboratory of Green Chemistry and Technology, Chengdu 610064, PR China*



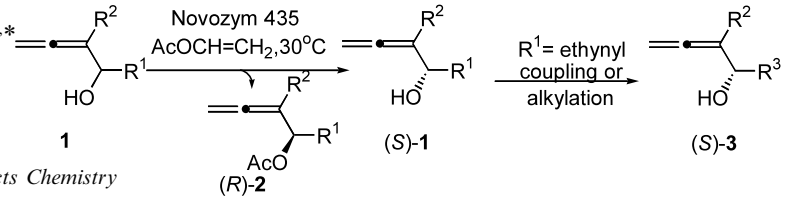
Tetrahedron: Asymmetry *14 (2003) 3657*

Novozym-435-catalyzed efficient preparation of (1*S*)-ethenyl and ethynyl 2,3-allenols and (1*R*)-ethenyl and ethynyl 2,3-allenyl acetates with high enantiomeric excess

Daiwang Xu,[a] Zuyi Li[b] and Shengming Ma[a,*]

[a]*State Key Laboratory of Organometallic Chemistry, Shanghai Institute of Organic Chemistry, Chinese Academy of Sciences, 354 Fenglin Lu, Shanghai 200032, PR China*

[b]*State Key Laboratory of Bio-Organic & Natural Products Chemistry Shanghai Institute of Organic Chemistry, Chinese Academy of Sciences, 354 Fenglin Lu, Shanghai 200032, PR China*

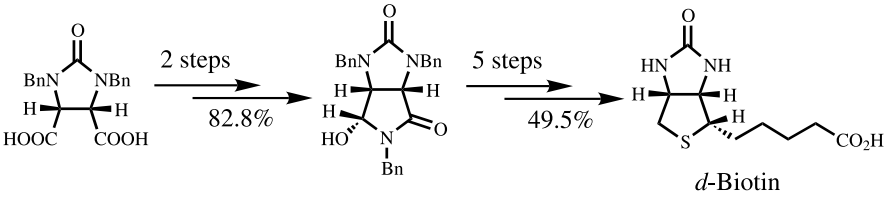


Tetrahedron: Asymmetry *14 (2003) 3667*

Synthetic studies on *d*-biotin. Part 7: A practical asymmetric total synthesis of *d*-biotin via enantioselective reduction of *meso*-cyclic imide catalyzed by oxazborolidine

Fen-Er Chen,* Hui-Fang Dai, Yun-Yan Kuang and Hui-Qing Jia

Department of Chemistry, Fudan University, Shanghai 200433, People's Republic of China



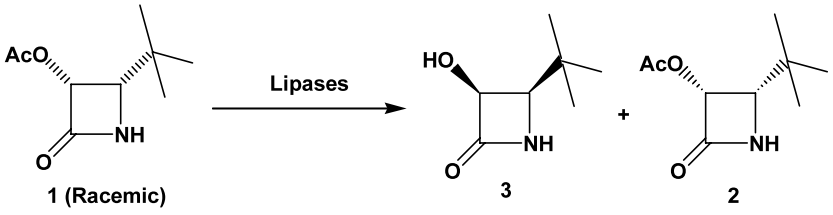
Tetrahedron: Asymmetry *14 (2003) 3673*

Enzymatic preparation of (3*R*)-*cis*-3-acetyloxy-4-(1,1-dimethyl-ethyl)-2-azetidinone: a side-chain synthon for an orally active taxane

Ramesh N. Patel,* Jeffrey Howell, Rama Chidambaram, Serge Benoit and Joydeep Kant

Process Research & Development, Bristol-Myers Squibb Pharmaceutical Research Institute, PO Box 191, New Brunswick, NJ 08903, USA

Lipase PS-30 or BMS-lipase was used to prepare (3*R*)-*cis*-3-acetyloxy-4-(1,1-dimethylethyl)-2-azetidinone **2**.



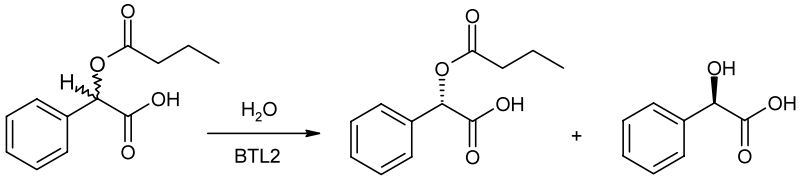
Tetrahedron: Asymmetry *14 (2003) 3679*

Evaluation of the lipase from *Bacillus thermocatenulatus* as an enantioselective biocatalyst

Jose M. Palomo,[a] Gloria Fernández-Lorente,[a] Maria L. Rúa,[b] José M. Guisán[a,*] and Roberto Fernández-Lafuente[a,*]

[a]*Departmento de Biocatalisis, Instituto de Catalisis. CSIC, Campus Autonoma University, 28049 Madrid, Spain*

[b]*Area de Bioquímica y Biología Molecular, Facultade de Ciencias de Ourense, Universidade de Vigo, As Lagoas s/n, 32004, Ourense, Spain*

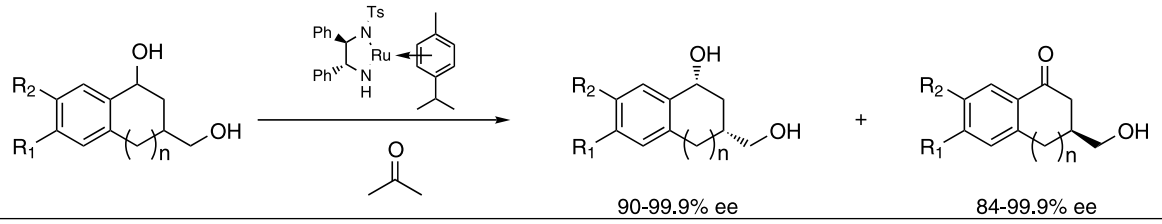


Kinetic resolution of 3-hydroxymethylbenzocycloalkanols by selective asymmetric hydrogen-transfer oxidation

Tetrahedron: Asymmetry *14 (2003) 3689*

Yolanda Caro, María Torrado, 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

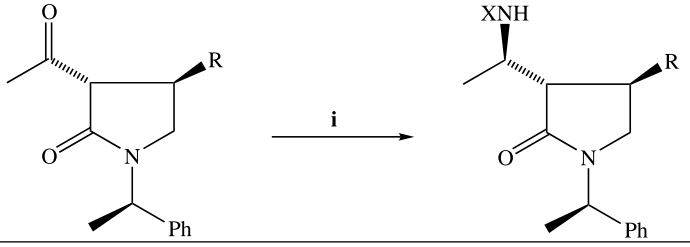


Stereoselective reductive amination of chiral *trans*-3-acetyl-4-alkylpyrrolidin-2-ones

Tetrahedron: Asymmetry *14 (2003) 3697*

Cristiana Fava, Roberta Galeazzi, Giovanna Mobbili and Mario Orena*

Dipartimento di Scienze dei Materiali e della Terra, Università Politecnica delle Marche-Via Brecce Bianche, I-60131 Ancona, Italy



i. $NaBH_3(CN)$, CH_3COONH_4, CH_3OH, -15°C, MS 4A, 12 h., then acylating agent

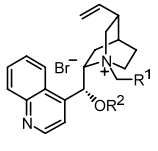
a. R = $CH{=}CH_2$, X = Ac, 73%
b. R = CH_2COOEt, X = Ac, 74%
c. R = $CH{=}CH_2$, X = Boc, 72%

Chiroptical properties and applications in PTC of new dendritic cinchonidine-derived ammonium salts

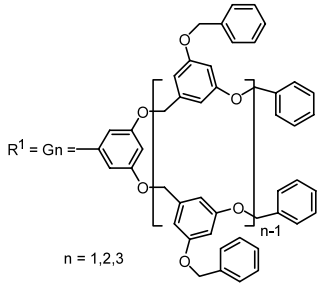
Tetrahedron: Asymmetry *14 (2003) 3705*

Gabriela Guillena,[a] Robert Kreiter,[a] Rob van de Coevering,[a] Robertus J. M. Klein Gebbink,[a] Gerard van Koten,[a,*] Patricia Mazón,[b] Rafael Chinchilla[b] and Carmen Nájera[b,*]

[a]*Debye Institute, Department of Metal-Mediated Synthesis, Utrecht University, Padualaan 8, 3584 CH Utrecht, The Netherlands*
[b]*Departamento de Química Orgánica, Facultad de Ciencias, Universidad de Alicante, Apdo 99, E-03080 Alicante, Spain*



R^2 = H, allyl

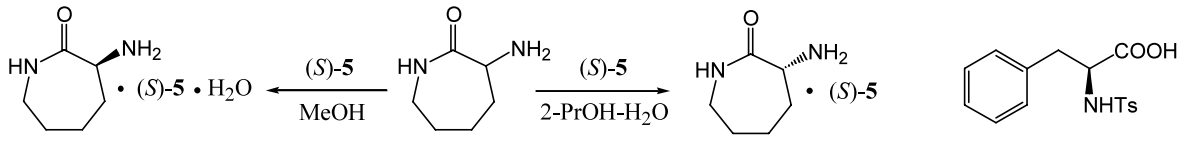


Practical continuous resolution of α-amino-ε-caprolactam by diastereomeric salt formation using a single resolving agent with a solvent switch method

Tetrahedron: Asymmetry *14 (2003) 3713*

Kenichi Sakai,[a,*] Rumiko Sakurai,[a] Atsushi Yuzawa[a] and Noriaki Hirayama[b]

[a]*R & D Division, Yamakawa Chemical Industry Co., Ltd., Kitaibaraki 319-1541, Japan*
[b]*Basic Medical Science and Molecular Medicine, Tokai University School of Medicine, Isehara 259-1193, Japan*



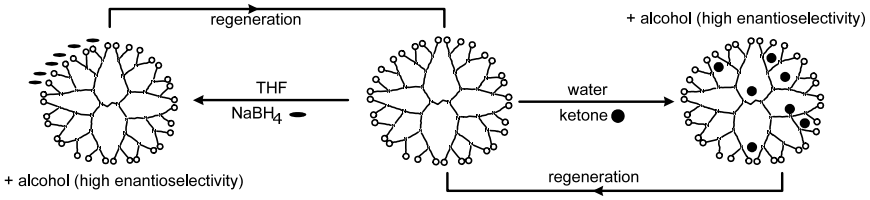
(*S*)-**1** (*RS*)-**1** (*R*)-**1** (*S*)-**5**

Mechanistic study of the enantioselective reduction of ketones in the presence of glycodendrimers

Tetrahedron: Asymmetry *14 (2003) 3719*

Andreea Schmitzer, Emile Perez, Isabelle Rico-Lattes and Armand Lattes*

Laboratoire des interactions moléculaires et Réactivité Chimique et Photochimique, UMR 5623, CNRS-Université Paul Sabatier, 118 route de Narbonne, 31062 Toulouse Cedex 4, France

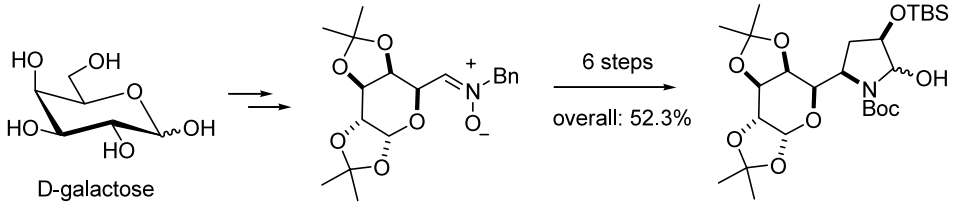


1,3-Dipolar cycloaddition between *N*-benzyl-*C*-glycosyl nitrones and methyl acrylate en route to glycosyl pyrrolidines

Tetrahedron: Asymmetry *14 (2003) 3731*

Pedro Merino,* Santiago Franco, Francisco L. Merchan, Pilar Romero, Tomas Tejero and Santiago Uriel

Departamento de Química Orgánica, ICMA, Facultad de Ciencias, Universidad de Zaragoza-CSIC, E-50009 Zaragoza, Aragon, Spain



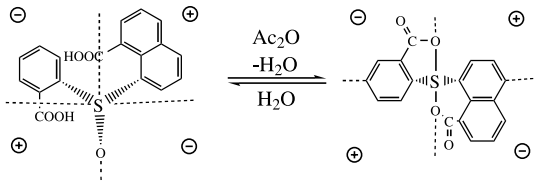
Synthesis and hydrolysis of optically active naphthyl-phenyl-bis(acyloxy)spiro-λ^4-sulfane: absolute configurations of spiro-λ^4-sulfanes, related sulfonium salts and naphthyl phenyl sulfoxides determined by CD spectroscopy using exciton chirality and empirical rules

Tetrahedron: Asymmetry *14 (2003) 3745*

Jenő Varga, József Rábai, Ferenc Ruff,* Árpád Kucsman, Elemér Vass, Miklós Hollósi and Dénes Szabó*

Department of Organic Chemistry, Eötvös Loránd University, H-1518 Budapest 112, PO Box 32, Hungary

Exciton chirality and empirical rules predict (*S*)- and (*R*)-configurations for (+)-sulfoxide and (−)-λ^4-sulfane, respectively.

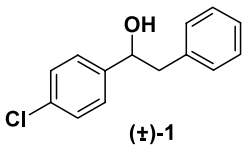


Studies on biotransformation of (±)-1-(4′-chlorophenyl)-2-phenylethanol

Tetrahedron: Asymmetry *14 (2003) 3755*

Antonio J. Bustillo, Carlos M. García-Pajón, Josefina Aleu, Rosario Hernández-Galán and Isidro G. Collado*

Departamento de Química Orgánica, Facultad de Ciencias, Universidad de Cádiz, Apdo. 40, 11510 Puerto Real, Cádiz, Spain



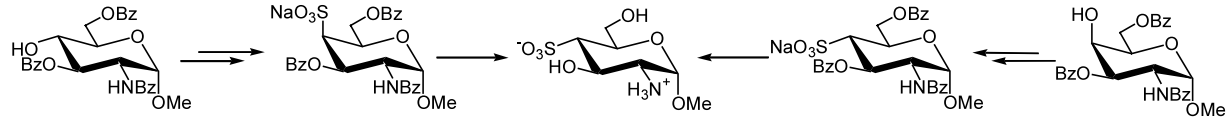
The metabolism of (±)-1-(4′-chlorophenyl)-2-phenylethanol **1** by the phytopathogenic fungi *Colletotrichum gloeosporioides* and *Botrytis cinerea* has been studied. The chemistry involved in determining the configuration of the biotransformation products is also described.

Tetrahedron: Asymmetry *14 (2003) 3761*

Synthesis of 4-*C*-sulfoaminosugar derivatives: isomerization of 4-*C*-sulfogalactosamine to its *gluco* epimer

José G. Fernández-Bolaños,[a,*] Salud García,[a] José Fernández-Bolaños,[a] M[a] Jesús Diánez,[b] M[a] Dolores Estrada,[b] Amparo López-Castro[b] and Simeón Pérez-Garrido[b]

[a]*Departamento de Química Orgánica, Facultad de Química, Universidad de Sevilla, Apartado de Correos 553, E-41071 Seville, Spain*
[b]*Instituto de Ciencias de Materiales de Sevilla and Departamento de Física de la Materia Condensada, C.S.I.C.—Universidad de Sevilla, Apartado de Correos 1065, E-41071 Seville, Spain*

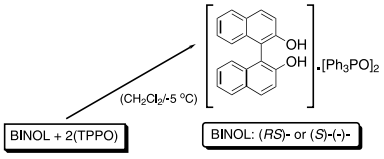


Tetrahedron: Asymmetry *14 (2003) 3769*

A complex of Ph_3PO with a chiral hydrogen-bond donor: X-ray crystal structures of the complexes with (*RS*)-(±)- and (*S*)-(−)-1,1′-bi-2,2′-naphthol: homochiral Ph_3PO

Sosale Chandrasekhar,[a,*] Guruprasad Kulkarni,[a] Muktha B[b] and Tayur N. Guru Row[b,*]

[a]*Department of Organic Chemistry, Indian Institute of Science, Bangalore 560 012, India*
[b]*Solid State and Structural Chemistry Unit, Indian Institute of Science, Bangalore 560 012, India*

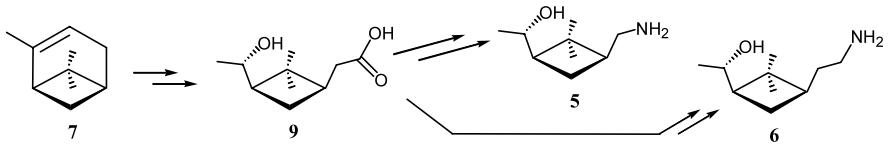


Tetrahedron: Asymmetry *14 (2003) 3773*

Synthesis of two enantiomerically pure precursors of cyclobutane carbocyclic nucleosides

Antonio R. Hergueta, Carmen López,* Franco Fernández, Olga Caamaño and José M. Blanco

Departamento de Química Orgánica, Facultade de Farmacia, Universidade de Santiago, E-15782 Santiago de Compostela, Spain



Tetrahedron: Asymmetry *14 (2003) 3779*

A short entry to enantiopure 2-substituted-1,4-benzodioxanes by efficient resolution methods

Cristiano Bolchi, Laura Fumagalli, Barbara Moroni, Marco Pallavicini and Ermanno Valoti*

Istituto di Chimica Farmaceutica e Tossicologica, Università di Milano, viale Abruzzi 42, I-20131 Milano, Italy