

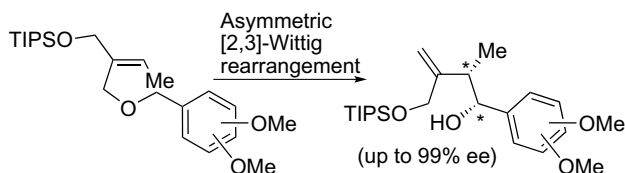
Tetrahedron: Asymmetry Vol. 19, No. 10, 2008

Contents

COMMUNICATIONS

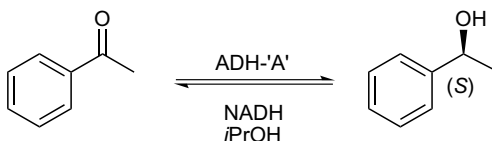
- Highly enantioselective [2,3]-Wittig rearrangement of functionalized allyl benzyl ethers: a novel approach to lignan synthesis** pp 1167–1170

Yoshimi Hirokawa, Maria Kitamura, Naoyoshi Maezaki *



- Novel immobilization routes for the covalent binding of an alcohol dehydrogenase from *Rhodococcus ruber* DSM 44541** pp 1171–1173

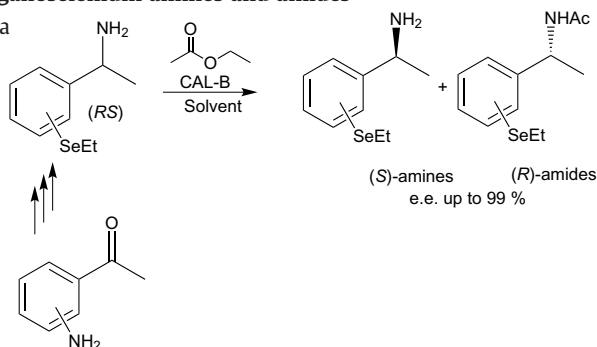
Katja Goldberg, Anke Krueger, Thomas Meinhardt, Wolfgang Kroutil, Barbara Mautner, Andreas Liese *



ARTICLES

- First chemoenzymatic synthesis of organoselenium amines and amides** pp 1175–1181

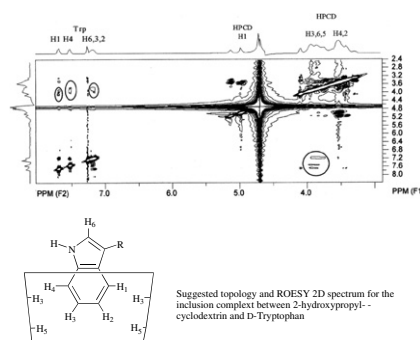
Leandro H. Andrade *, Alexandre V. Silva



Recognition mechanism of D- and L-tryptophan enantiomers using 2-hydroxypropyl- α - or β -cyclodextrins as chiral selectors

pp 1182–1188

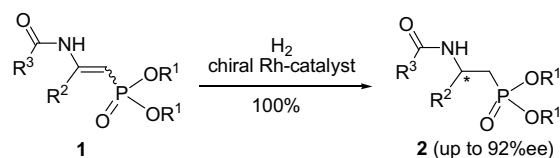
Luiz Fernando Brum Malta ^{*}, Yraima Cordeiro, Luzineide Wanderley Tinoco, Cora Cunha Campos, Marta Eloisa Medeiros, Octavio Augusto Ceva Antunes



Synthesis of chiral β -aminophosphonates via Rh-catalyzed asymmetric hydrogenation of β -amido-vinylphosphonates

pp 1189–1192

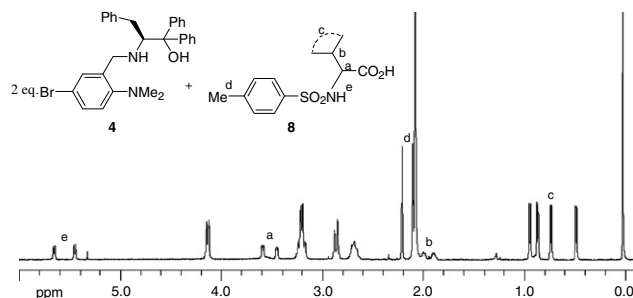
Renat Kadyrov, Jens Holz ^{*}, Benjamin Schäffner, Odalys Zayas, Juan Almena, Armin Börner ^{*}



Chiral amino alcohols derived from natural amino acids as chiral solvating agents for carboxylic acids

pp 1193–1199

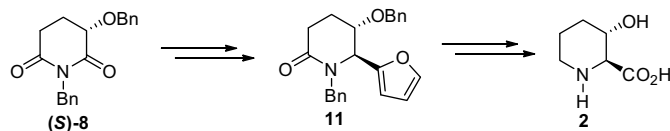
Wenge Wang, Xiumin Shen, Fengnian Ma, Zijing Li, Cong Zhang ^{*}



A new approach for the asymmetric synthesis of (2S,3S)-3-hydroxy-pipecolic acid

pp 1200–1203

Liang-Xian Liu ^{*}, Qi-Long Peng, Pei-Qiang Huang ^{*}



pp 1204–1209

a: X = Me
b: X = F

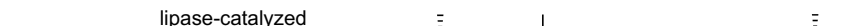
pp 1210–1214

Reaction scheme showing the asymmetric addition of Et_2Zn (2 eq.) to benzaldehyde (PhCHO) using a **chiral ligand** (2 mol%) to yield a chiral alcohol product. The product is shown with stereochemistry: Ph-CH(OH)-Et with the hydroxyl group on a wedge and the ethyl group on a dash.

Chiral ligand structure: A piperidine ring substituted with a F_3C group and a ^iPr group. The stereochemistry is indicated with a wedge for the F_3C group and a dash for the ^iPr group.

ee of product: 65% ee (for the F_3C ligand) and 78% ee (for the ^iPr ligand).

pp 1215-1223



lipase-catalyzed
 asymmetric acetylation
 or Hodgson's
 intramolecular
 cyclopropanation

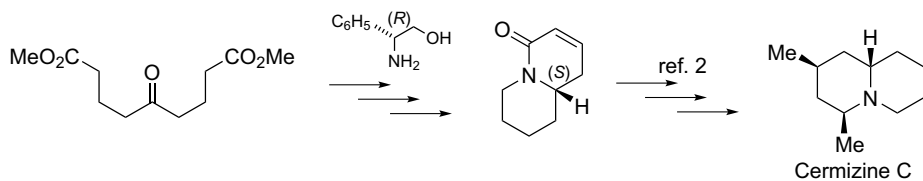
Erysarcoris lewisii pheromone

pp 1224–1232

Enantioselective synthesis of (S)-1,6,7,8,9,9a-hexahydroquinolizin-4-one. Formal synthesis of the lycopodium alkaloids senepodine G and cermizine C

pp 1233–1236

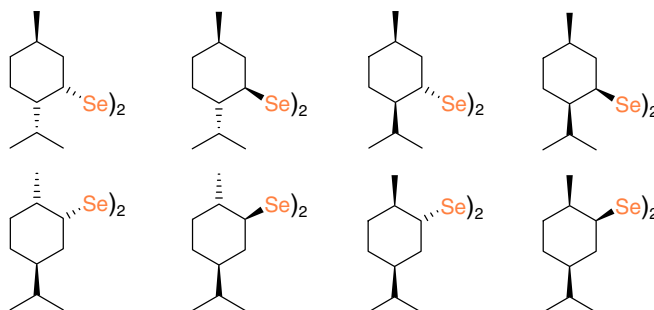
Mercedes Amat ^{*}, Rosa Grieria, Robert Fabregat, Joan Bosch



Synthesis and reactions of enantiomerically pure dialkyl diselenides from the *p*-menthane group

pp 1237–1244

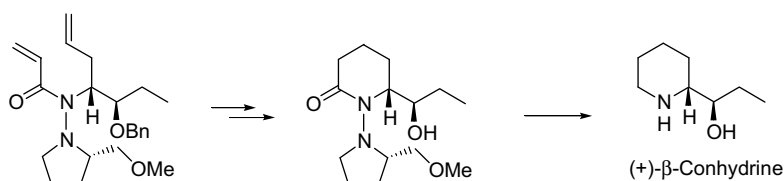
Zbigniew Rafiński, Jacek Ścianowski ^{*}



Asymmetric synthesis of the optically active piperidine alkaloid (+)-β-conhydrine

pp 1245–1249

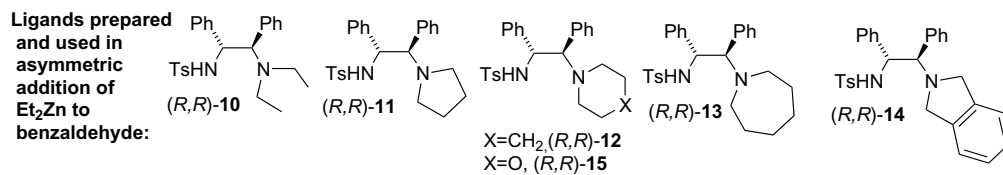
Stéphane Lebrun, Axel Couture ^{*}, Eric Deniau, Pierre Grandclaudon

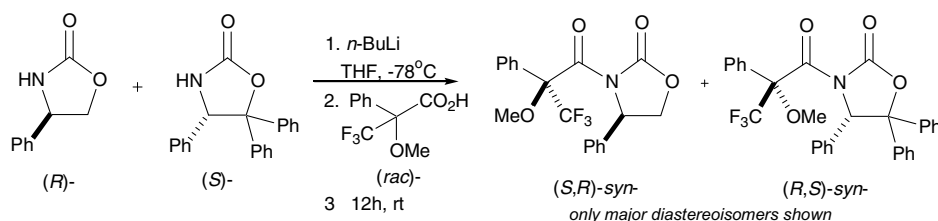
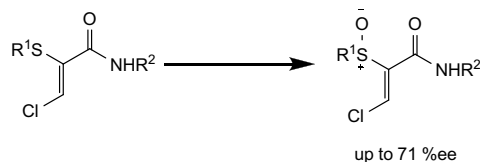


Synthesis of a series of novel *N,N*-dialkyl-TsDPEN ligands and their application to enantioselective addition of dialkylzinc to benzaldehyde

pp 1250–1255

José E. D. Martins, Martin Wills ^{*}





OTHER CONTENTS

Stereochemistry abstracts

pp A253–A280

Cumulative author index

pp I–IV

*Corresponding author

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