

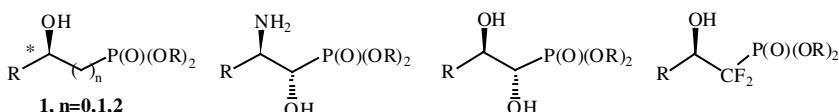
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REPORT

Asymmetric synthesis of hydroxyphosphonates

pp 3295–3340

Oleg I. Kolodiazhnyi



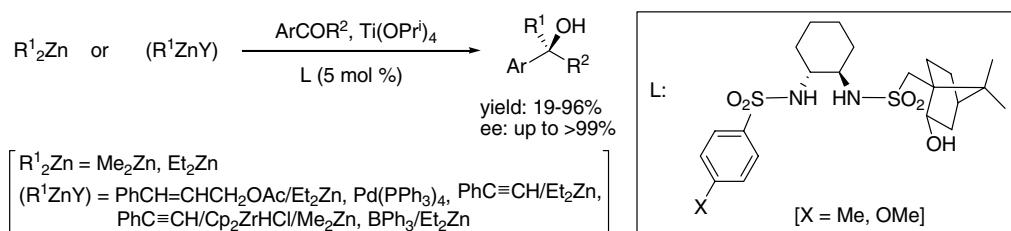
An overview of recent synthetic approaches to chiral hydroxyphosphonates and the determination of their absolute configurations is presented. Data on the practical application of hydroxyphosphonates are discussed.

COMMUNICATION

 Chiral tertiary alcohols from a *trans*-1-arenesulfonyl-amino-2-isoborneolsulfonylaminocyclohexane-catalyzed addition of organozincs to ketones

pp 3341–3344

Vicente J. Forrat, Diego J. Ramón* and Miguel Yus*

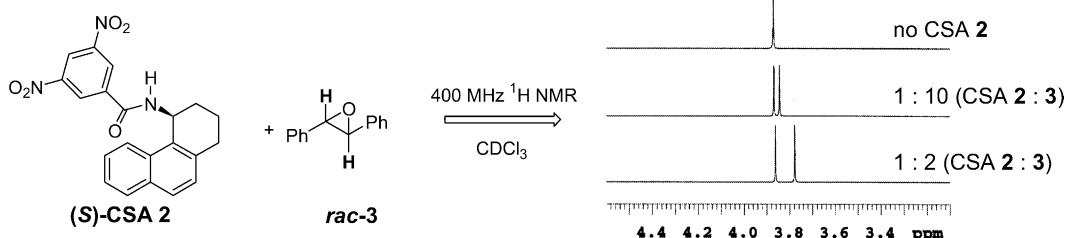


ARTICLES

Investigation of a broadly applicable chiral selector used in enantioselective chromatography (Whelk-O 1) as a chiral solvating agent for NMR determination of enantiomeric composition

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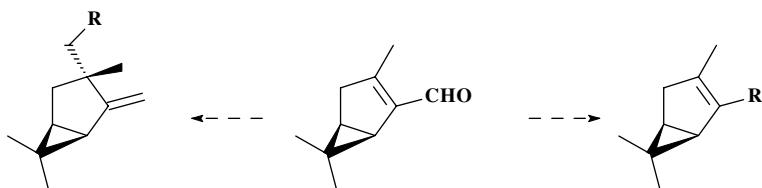
Michael E. Koscho* and William H. Pirkle



Stereochemistry of terpene derivatives. Part 4: Fragrant terpenoid derivatives with an unsaturated *gem*-dimethylbicyclo[3.1.0]hexane system

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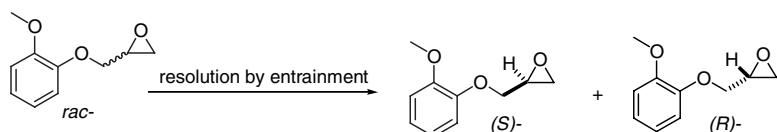
Bożena Frąckowiak, Teresa Olejniczak, Rafał Latajka, Agata Białońska,
Zbigniew Ciunik and Stanisław Lochyński*



Solid state properties of 1,2-epoxy-3-(2-methoxyphenoxy)-propane—valuable intermediate in non-racemic drug synthesis

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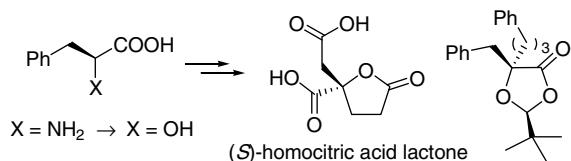
Alexander A. Bredikhin,* Elena I. Strunskaya, Dmitry V. Zakharychev, Dmitry B. Krivolapov,
Igor A. Litvinov and Zemfira A. Bredikhina



Asymmetric synthesis of (*S*)-homocitric acid lactone

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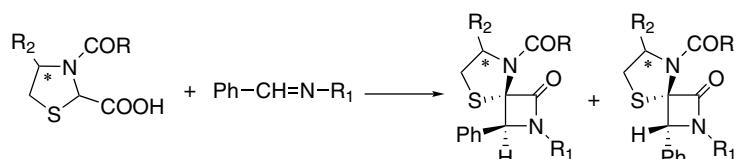
Pei-Qiang Huang* and Zhao-Ying Li



Asymmetric synthesis of 1,3-thiazolidine-derived spiro-β-lactams via a Staudinger reaction between chiral ketenes and imines

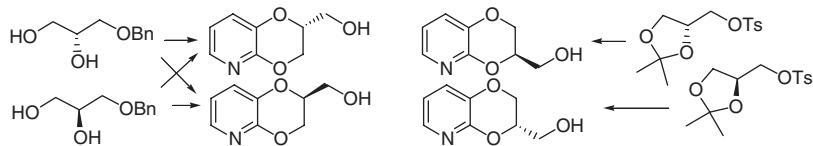
pp 3371–3379

Giuseppe Cremonesi, Piero Dalla Croce, Francesco Fontana, Alessandra Forni and
Concetta La Rosa*



Univocal syntheses of 2- and 3-hydroxymethyl-2,3-dihydro[1,4]dioxino[2,3-*b*]pyridine enantiomers
 Cristiano Bolchi, Marco Pallavicini, Laura Fumagalli, Barbara Moroni,
 Chiara Rusconi and Ermanno Valoti*

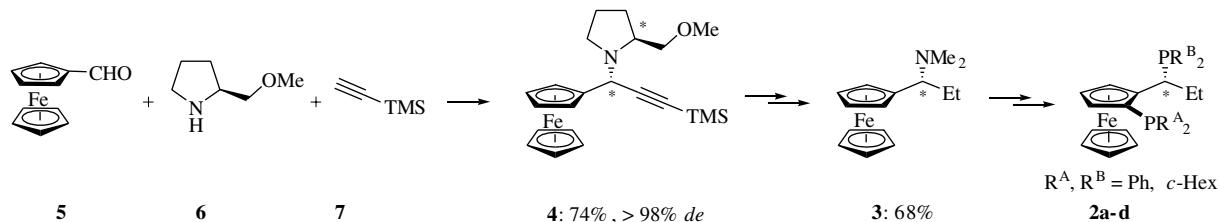
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Synthesis of JOSIPHOS-type ligands via a diastereoselective three-component reaction and their application in asymmetric rhodium-catalyzed hydroborations

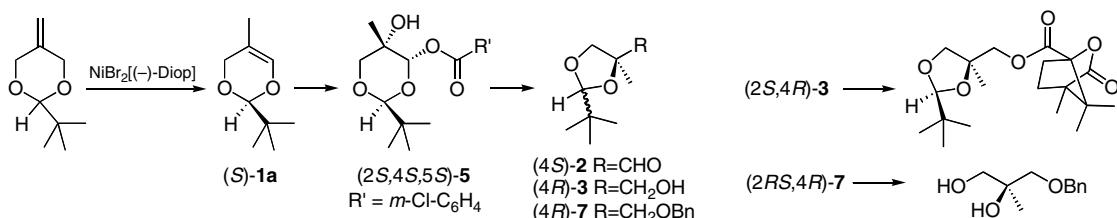
Shuji Yasuike, Christiane C. Kofink, Ralf J. Kloetzing, Nina Gommermann, Katja Tappe,
 Andrei Gavryushin and Paul Knochel*

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5-Methyl-4*H*-1,3-dioxins, new chiral building blocks: transformation into (*R*)- and (*S*)-4-hydroxymethyl-4-methyl-1,3-dioxolanes via oxidation and rearrangement and determination of the absolute configuration

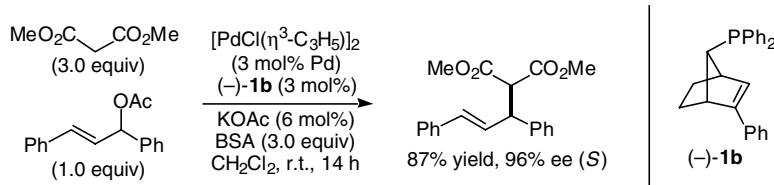
Susanne Flock, Herbert Frauenrath* and Carsten Wattenbach



Palladium/chiral phosphine–olefin complexes: X-ray crystallographic analysis and the use in catalytic asymmetric allylic alkylation

Ryo Shintani, Wei-Liang Duan, Kazuhiro Okamoto and Tamio Hayashi*

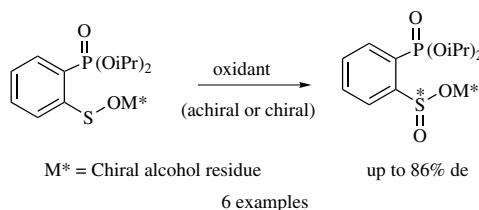
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Asymmetric oxidation of sulfenates to sulfinates as a new route to optically active *ortho*-phosphorylated phenyl sulfoxides

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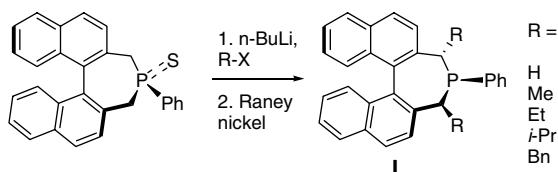
Matthieu Hamel, Guillaume Grach, Isabelle Abrunhosa, Mihaela Gulea, Serge Masson, Michel Vazeux,* Jozef Drabowicz* and Marian Mikolajczyk



Chiral α -branched mono phosphine auxiliaries, reversal of sense of asymmetric induction upon substitution

pp 3416–3426

Peter Kasák, Kurt Mereiter and Michael Widhalm*

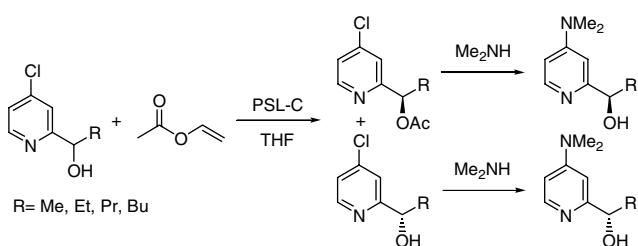


Ligands **L** were applied in asymmetric catalysis (hydrogenation, hydroboration, and Suzuki–Miyaura cross-coupling) affording asymmetric inductions up to 91% ee.

Chemoenzymatic synthesis of chiral 4-(*N,N*-dimethylamino)pyridine derivatives

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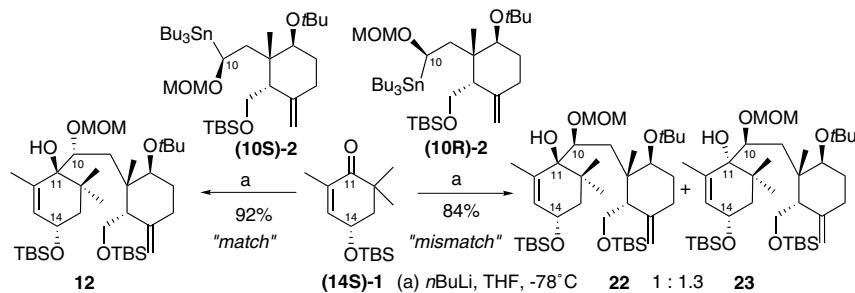
Eduardo Bustó, Vicente Gotor-Fernández and Vicente Gotor*



Matched and mismatched pairings in B-secotaxane construction: a structure elucidation study

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Imad Safir, José I. Candela Lena, Laure Finet, Nicolas Birlirakis and Siméon Arseniyadis*



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*Corresponding author



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