Synthesis and applications of non-racemic cyanohydrins

Tetrahedron: Asymmetry *14 (2003) 147*

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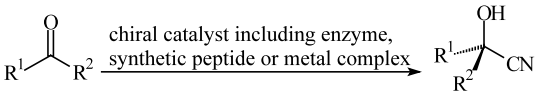

An efficient synthetic approach to optically active β-carboline derivatives via Pictet–Spengler reaction promoted by trimethylchlorosilane

Tetrahedron: Asymmetry *14 (2003) 177*

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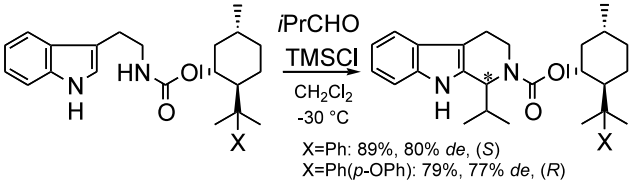

Asymmetric synthesis of chiral *N*-(1-methylbenzyl)aminophosphines

Tetrahedron: Asymmetry *14 (2003) 181*

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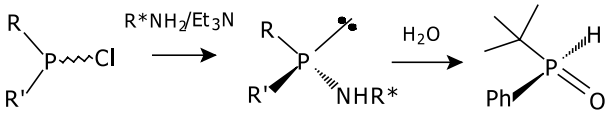
The reactions of *t*-butylphenylchlorophosphine with (*S*)- or (*R*)-1-methylbenzylamine proceed stereoselectively to give *N*-(1-methylbenzyl)aminophosphines, which were isolated as crystalline borane complexes in 100% diastereomeric purity. The absolute configuration of the new chiral compounds was established by X-ray analysis and chemical extrapolation.



Asymmetric synthesis of pyrimidyl alkanol without adding chiral substances by the addition of diisopropylzinc to pyrimidine-5-carbaldehyde in conjunction with asymmetric autocatalysis

Tetrahedron: Asymmetry *14 (2003) 185*

Kenso Soai,[a,*] Itaru Sato,[a] Takanori Shibata,[a] Soichiro Komiya,[a] Masanobu Hayashi,[a] Yohei Matsueda,[a] Hikaru Imamura,[a] Tadakatsu Hayase,[a] Hiroshi Morioka,[a] Hayami Tabira,[a] Jun Yamamoto[a] and Yasunori Kowata[b]

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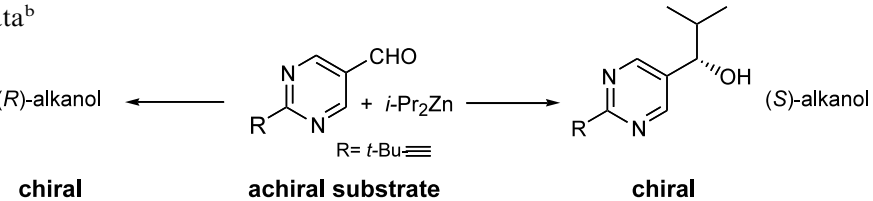

Self-assembly of chiral hydrogen-bonded grid layers from terephthalic Siamese twins

Tetrahedron: Asymmetry *14 (2003) 245*

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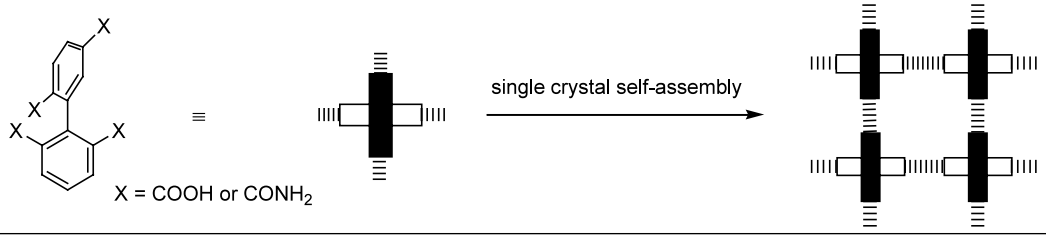

New *P,N*-ferrocenyl ligands for rhodium-catalyzed hydroboration and palladium-catalyzed allylic alkylation

Tetrahedron: Asymmetry *14 (2003) 255*

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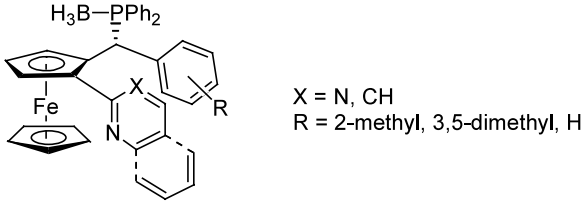

Chiral, non-racemic α-hydroxyphosphonates and phosphonic acids via stereoselective hydroxylation of diallyl benzylphosphonates

Tetrahedron: Asymmetry *14 (2003) 265*

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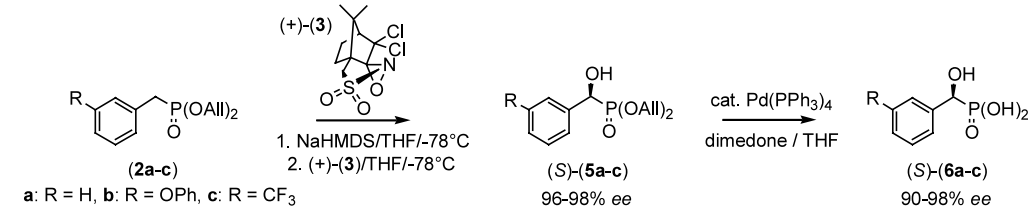

Biocatalytic oxidative kinetic resolution of *sec*-alcohols: stereocontrol through substrate-modification

Tetrahedron: Asymmetry *14 (2003) 275*

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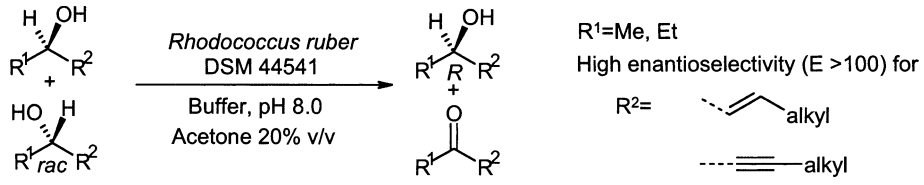

Tetrahedron: Asymmetry *14 (2003) 281*

A novel method for the asymmetric synthesis of 4,4-disubstituted 2-cyclopentenones from optically active 1-chlorovinyl *p*-tolyl sulfoxides and its application to the asymmetric total synthesis of (+)-α-cuparenone

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