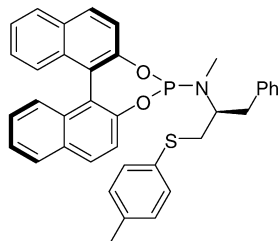


Stereochemistry abstracts

Fabien Boeda, Diane Rix, Hervé Clavier, Christophe Crévisy*
and Marc Mauduit*

Tetrahedron: Asymmetry 17 (2006) 2726



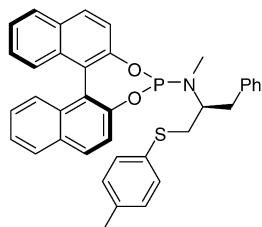
$C_{37}H_{32}NO_2PS$

O,O'-(R)-(1,1'-Dinaphthyl-2,2'-diyl)-N-methyl-N'-(S)-1-phenyl-3-(p-tolylthio)propanephosphoramidite

$[\alpha]^{20} = -246.0$ (*c* 1.7, chloroform)
Source of chirality: (*R*)-BINOL 99% ee,
(*S*)-phenylalaninol 99% ee
Absolute configuration: (*R,S*)

Fabien Boeda, Diane Rix, Hervé Clavier, Christophe Crévisy*
and Marc Mauduit*

Tetrahedron: Asymmetry 17 (2006) 2726



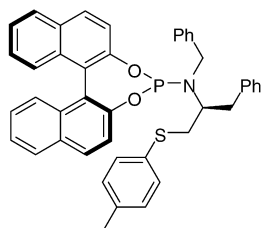
$C_{37}H_{32}NO_2PS$

O,O'-(S)-(1,1'-Dinaphthyl-2,2'-diyl)-N-methyl-N'-(S)-1-phenyl-3-(p-tolylthio)propanephosphoramidite

$[\alpha]^{20} = +250.0$ (*c* 1.2, chloroform)
Source of chirality: (*S*)-BINOL 99% ee,
(*S*)-phenylalaninol 99% ee
Absolute configuration: (*S,S*)

Fabien Boeda, Diane Rix, Hervé Clavier, Christophe Crévisy*
and Marc Mauduit*

Tetrahedron: Asymmetry 17 (2006) 2726



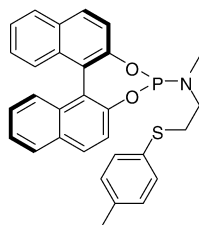
$C_{43}H_{36}NO_2PS$

O,O'-(S)-(1,1'-Dinaphthyl-2,2'-diyl)-N-benzyl-N'-(S)-1-phenyl-3-(p-tolylthio)propanephosphoramidite

$[\alpha]^{20} = +258.2$ (*c* 1.7, chloroform)
Source of chirality: (*S*)-BINOL 99% ee,
(*S*)-phenylalaninol 99% ee
Absolute configuration: (*S,S*)

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and Marc Mauduit*

Tetrahedron: Asymmetry 17 (2006) 2726



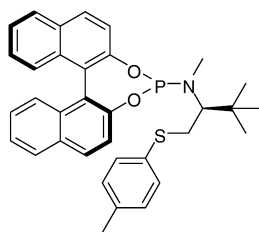
$C_{30}H_{26}NO_2PS$

O,O'-(R)-(1,1'-Dinaphthyl-2,2'-diyl)-N-methyl-N'-2-(p-tolylthio)ethanephosphoramidite

$[\alpha]^{20} = -54.3$ (*c* 0.53, chloroform)
Source of chirality: (*R*)-BINOL 99% ee
Absolute configuration: (*R*)

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and Marc Mauduit*

Tetrahedron: Asymmetry 17 (2006) 2726



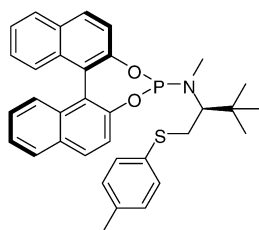
$C_{34}H_{34}NO_2PS$

O,O'-(S)-(1,1'-Dinaphthyl-2,2'-diyl)-N-methyl-N'-(S)-1,1',1''-trimethyl-3-(p-tolylthio)propanephosphoramidite

$[\alpha]^{20} = +102.6$ (*c* 0.70, chloroform)
Source of chirality: (*S*)-BINOL 99% ee,
(*S*)-*tert*-leucinol 99% ee
Absolute configuration: (*S,S*)

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and Marc Mauduit*

Tetrahedron: Asymmetry 17 (2006) 2726



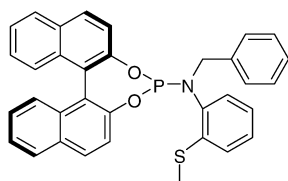
$C_{34}H_{34}NO_2PS$

O,O'-(R)-(1,1'-Dinaphthyl-2,2'-diyl)-N-methyl-N'-(S)-1,1',1''-trimethyl-3-(p-tolylthio)propanephosphoramidite

$[\alpha]^{20} = -99.2$ (*c* 0.60, chloroform)
Source of chirality: (*R*)-BINOL 99% ee,
(*S*)-*tert*-leucinol 99% ee
Absolute configuration: *R,S*

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and Marc Mauduit*

Tetrahedron: Asymmetry 17 (2006) 2726



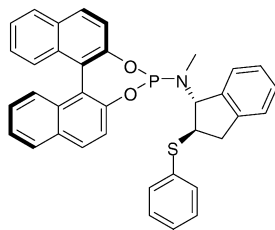
$C_{34}H_{26}NO_2PS$

O,O'-(R)-(1,1'-Dinaphthyl-2,2'-diyl)-N-benzyl-N'-2-(methylthio)phenyl phosphoramidite

$[\alpha]^{20} = -113.4$ (*c* 0.50, chloroform)
Source of chirality: (*R*)-BINOL 99% ee
Absolute configuration: *R*

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and Marc Mauduit*

Tetrahedron: Asymmetry 17 (2006) 2726



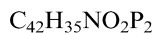
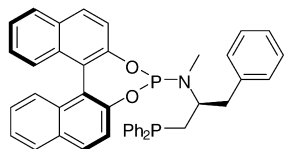
$C_{37}H_{30}NO_2PS$

O,O'-(R)-(1,1'-Dinaphthyl-2,2'-diyl)-N-methyl-N'-(1R,2R)-2-(p-tolylthio)-2,3-dihydro-1H-inden-1-yl phosphoramidite

$[\alpha]^{20} = -39.4$ (*c* 0.66, chloroform)
Source of chirality: (*R*)-BINOL 99% ee,
(1*R*,2*S*)-*cis*-1-amino-2-indanol 99% ee
Absolute configuration: (*R,R,R*)

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and Marc Mauduit*

Tetrahedron: Asymmetry 17 (2006) 2726



O,O'-(S)-(1,1'-Dinaphthyl-2,2'-diyl)-N-methyl-N'-(S)-1-phenyl-3-(diphenylphosphino)propanephosphoramidite

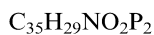
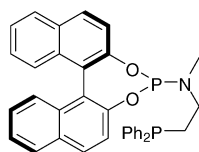
$[\alpha]^{20} = +58.5$ (*c* 0.20, chloroform)

Source of chirality: (*S*)-BINOL 99% ee,
(*S*)-phenylalaninol 99% ee

Absolute configuration: (*S,S*)

Fabien Boeda, Diane Rix, Hervé Clavier, Christophe Crévisy*
and Marc Mauduit*

Tetrahedron: Asymmetry 17 (2006) 2726



O,O'-(R)-(1,1'-Dinaphthyl-2,2'-diyl)-N-methyl-N'-2-(diphenylphosphino)ethanephosphoramidite

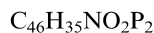
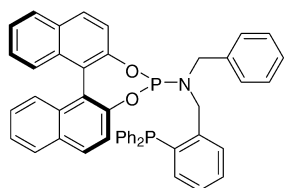
$[\alpha]^{20} = -70.7$ (*c* 0.20, chloroform)

Source of chirality: (*R*)-BINOL 99% ee

Absolute configuration: (*R*)

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and Marc Mauduit*

Tetrahedron: Asymmetry 17 (2006) 2726



O,O'-(S)-(1,1'-Dinaphthyl-2,2'-diyl)-N-benzyl-N'-2-(o-diphenylphosphino)benzyl phosphoramidite

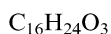
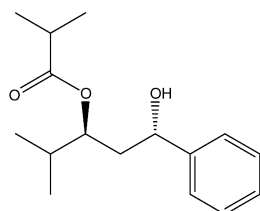
$[\alpha]^{20} = +38.0$ (*c* 0.33, chloroform)

Source of chirality: (*S*)-BINOL 99% ee

Absolute configuration: (*S*)

Christoph Schneider,* Markus Hansch and Pankajakshan Sreekumar

Tetrahedron: Asymmetry 17 (2006) 2738



(1S,3S)-1-Hydroxy-4-methyl-1-phenylpentan-3-yl isobutyrate

Ee = 60%

De >95%

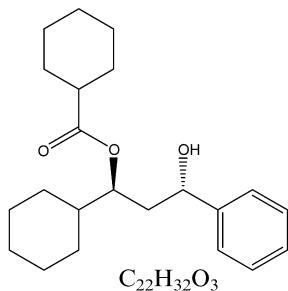
$[\alpha]_D^{20} = -5.7$ (*c* 1.0, CHCl₃)

Source of chirality: asymmetric synthesis

Absolute configuration: (*1S,3S*)

Christoph Schneider,* Markus Hansch and Pankajakshan Sreekumar

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(1*S*,3*S*)-1-Cyclohexyl-3-hydroxy-3-phenylpropyl cyclohexanecarboxylate

Ee = 54%

De >95%

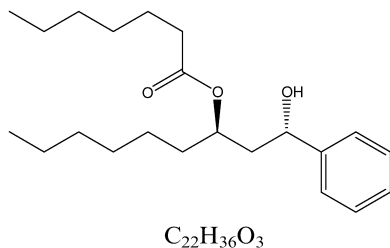
$[\alpha]_D^{20} = -17.3$ (*c* 1.1, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (1*S*,3*S*)

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(1*S*,3*R*)-1-Hydroxy-1-phenylnonan-3-yl heptanoate

Ee = 41%

De >95%

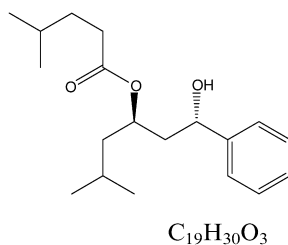
$[\alpha]_D^{20} = -3.0$ (*c* 0.5, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (1*S*,3*R*)

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(1*S*,3*R*)-1-Hydroxy-5-methyl-1-phenylhexan-3-yl 4-methylpentanoate

Ee = 42%

De >95%

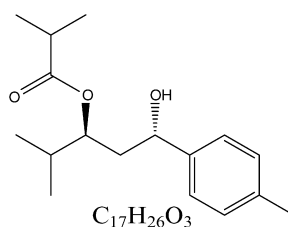
$[\alpha]_D^{20} = -4.5$ (*c* 1.2, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (1*S*,3*R*)

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(1*S*,3*S*)-1-Hydroxy-4-methyl-1-*p*-tolylpentan-3-yl isobutyrate

Ee = 50%

De >95%

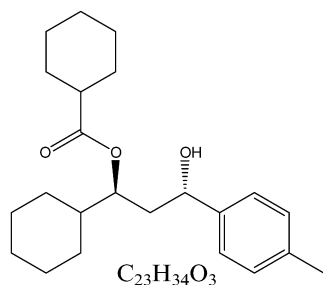
$[\alpha]_D^{20} = -14.8$ (*c* 1.2, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (1*S*,3*S*)

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Tetrahedron: Asymmetry 17 (2006) 2738



(1*S*,3*S*)-1-Cyclohexyl-3-hydroxy-3-*p*-tolylpropyl cyclohexanecarboxylate

Ee = 56%

De >95%

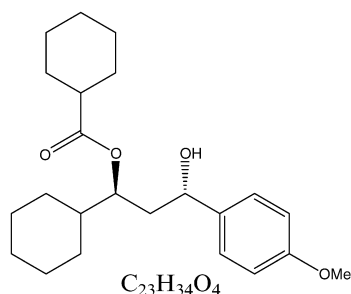
$[\alpha]_D^{20} = -15.7$ (*c* 1.1, CHCl₃)

Source of chirality: asymmetric synthesis

Absolute configuration: (1*S*,3*S*)

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(1*S*,3*S*)-1-Cyclohexyl-3-hydroxy-3-(4-methoxyphenyl)propyl cyclohexanecarboxylate

Ee = 60%

De >95%

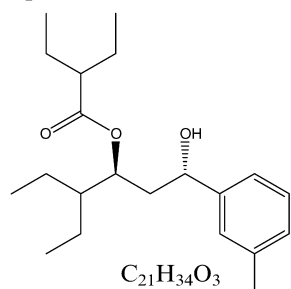
$[\alpha]_D^{20} = -9.3$ (*c* 1.1, CHCl₃)

Source of chirality: asymmetric synthesis

Absolute configuration: (1*S*,3*S*)

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(1*S*,3*S*)-4-Ethyl-1-hydroxy-1-*m*-tolylhexan-3-yl 2-ethylbutanoate

Ee = 49%

De >95%

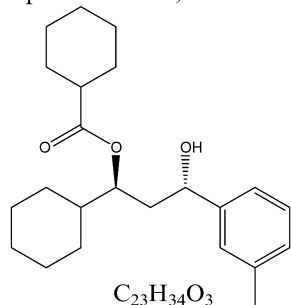
$[\alpha]_D^{20} = -10.4$ (*c* 1.2, CHCl₃)

Source of chirality: asymmetric synthesis

Absolute configuration: (1*S*,3*S*)

Christoph Schneider,* Markus Hansch and Pankajakshan Sreekumar

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(1*S*,3*S*)-1-Cyclohexyl-3-hydroxy-3-*m*-tolylpropyl cyclohexanecarboxylate

Ee = 53%

De >95%

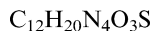
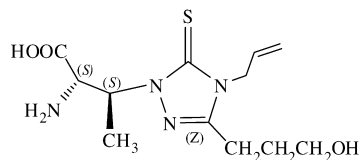
$[\alpha]_D^{20} = -11.3$ (*c* 1.1, CHCl₃)

Source of chirality: asymmetric synthesis

Absolute configuration: (1*S*,3*S*)

Ashot S. Saghiyan,* Luisa L. Manasyan, Arpine V. Geolchanyan, Anahit M. Hovhannisyanyan, Tariel V. Ghochikyan, Vilik S. Haroutunyan, Aida A. Avetisyan, Koryun S. Mirzoyan, Victor I. Maleev and Victor N. Khrustalev

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(2*S*,3*S*)-3-(4'-Allyl-3'-hydroxypropyl-5'-thioxo-1,2,4-triazol-1'-yl)-2-aminobutyric acid

Ee pure

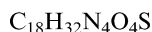
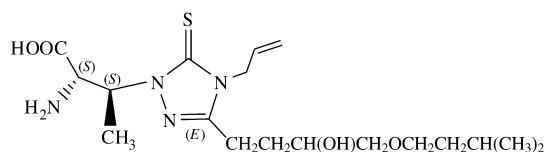
$[\alpha]_D^{20} = -30$ (*c* 0.1, 6 M HCl)

Source of chirality: asymmetric synthesis

Absolute configuration: (*S,S*)

Ashot S. Saghiyan,* Luisa L. Manasyan, Arpine V. Geolchanyan, Anahit M. Hovhannisyanyan, Tariel V. Ghochikyan, Vilik S. Haroutunyan, Aida A. Avetisyan, Koryun S. Mirzoyan, Victor I. Maleev and Victor N. Khrustalev

Tetrahedron: Asymmetry 17 (2006) 2743



(2*S*,3*S*)-3-(4'-Allyl-3'-hydroxyisoamyloxybutyl-5'-thioxo-1,2,4-triazol-1'-yl)-2-aminobutyric acid

Ee pure

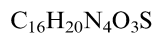
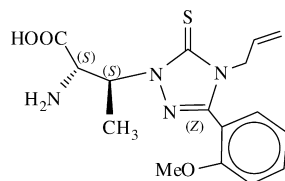
$[\alpha]_D^{20} = -22.5$ (*c* 0.04; 4.9 M HCl)

Source of chirality: asymmetric synthesis

Absolute configuration: (*S,S*)

Ashot S. Saghiyan,* Luisa L. Manasyan, Arpine V. Geolchanyan, Anahit M. Hovhannisyanyan, Tariel V. Ghochikyan, Vilik S. Haroutunyan, Aida A. Avetisyan, Koryun S. Mirzoyan, Victor I. Maleev and Victor N. Khrustalev

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(2*S*,3*S*)-3-(4'-Allyl-3'-*o*-methoxyphenyl-5'-thioxo-1,2,4-triazol-1'-yl)-2-aminobutyric acid

Ee pure

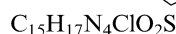
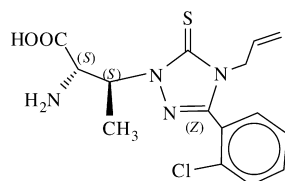
$[\alpha]_D^{20} = -33.3$ (*c* 0.1, 4.9 M HCl)

Source of chirality: asymmetric synthesis

Absolute configuration: (*S,S*)

Ashot S. Saghiyan,* Luisa L. Manasyan, Arpine V. Geolchanyan, Anahit M. Hovhannisyanyan, Tariel V. Ghochikyan, Vilik S. Haroutunyan, Aida A. Avetisyan, Koryun S. Mirzoyan, Victor I. Maleev and Victor N. Khrustalev

Tetrahedron: Asymmetry 17 (2006) 2743



(2*S*,3*S*)-3-(4'-Allyl-3'-*o*-chlorophenyl-5'-thioxo-1,2,4-triazol-1'-yl)-2-aminobutyric acid

Ee pure

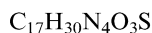
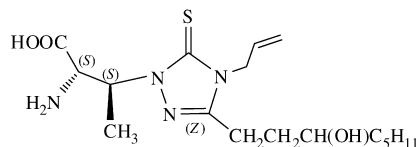
$[\alpha]_D^{20} = -25.6$ (*c* 0.1, 4.9 M HCl)

Source of chirality: asymmetric synthesis

Absolute configuration: (*S,S*)

Ashot S. Saghiyan,* Luisa L. Manasyan, Arpine V. Geolchanyan,
Anahit M. Hovhannisyanyan, Taniel V. Ghochikyan, Vilik S. Haroutunyan,
Aida A. Avetisyan, Koryun S. Mirzoyan, Victor I. Maleev
and Victor N. Khrustalev

Tetrahedron: Asymmetry 17 (2006) 2743



(2*S*,3*S*)-3-(4'-Allyl-3'-hydroxyoctyl-5'-thioxo-1,2,4-triazol-1'-yl)-2-aminobutyric acid

Ee pure

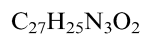
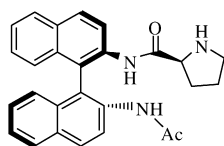
$[\alpha]_D^{20} = -5.0$ (c 0.1, 4.9 M HCl)

Source of chirality: asymmetric synthesis

Absolute configuration: (*S,S*)

Stefania Guizzetti, Maurizio Benaglia,* Luca Pignataro
and Alessandra Puglisi

Tetrahedron: Asymmetry 17 (2006) 2754



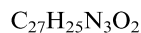
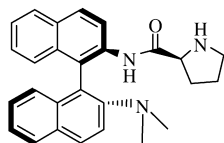
N'-Acetyl-*N*-(*S*)-prolyl-(*R*)-1,1'-binaphthyl-2,2'-diamine

Ee = 100%

$[\alpha]_D^{23} = +25.3$ (c 0.31, DCM)

Stefania Guizzetti, Maurizio Benaglia,* Luca Pignataro
and Alessandra Puglisi

Tetrahedron: Asymmetry 17 (2006) 2754



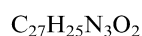
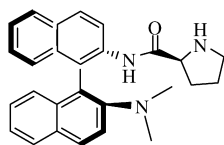
N',N'-Dimethyl-*N*-(*S*)-prolyl-(*R*)-1,1'-binaphthyl-2,2'-diamine

Ee = 100%

$[\alpha]_D^{23} = -95.9$ (c 0.21, DCM)

Stefania Guizzetti, Maurizio Benaglia,* Luca Pignataro
and Alessandra Puglisi

Tetrahedron: Asymmetry 17 (2006) 2754



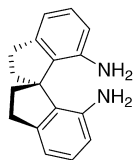
N',N'-Dimethyl-*N*-(*S*)-prolyl-(*S*)-1,1'-binaphthyl-2,2'-diamine

Ee = 100%

$[\alpha]_D^{23} = -16.2$ (c 0.35, DCM)

Chao Chen, Shou-Fei Zhu, Xin-Yan Wu* and Qi-Lin Zhou*

Tetrahedron: Asymmetry 17 (2006) 2761



$C_{17}H_{18}N_2$

(*S*)-1,1'-Spirobiindane-7,7'-diamine

Ee = 100%

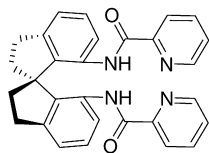
$[\alpha]_D^{20} = -128$ (*c* 0.2, CH_2Cl_2)

Source of chirality: resolution

Absolute configuration: *S*

Chao Chen, Shou-Fei Zhu, Xin-Yan Wu* and Qi-Lin Zhou*

Tetrahedron: Asymmetry 17 (2006) 2761



$C_{29}H_{24}N_4O_2$

(*S*)-7,7'-Bis(2-pyridinecarboxamido)-1,1'-spirobiindane

Ee = 100%

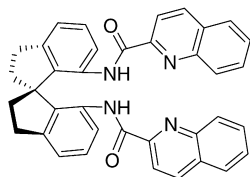
$[\alpha]_D^{20} = -364$ (*c* 0.5, CH_2Cl_2)

Source of chirality: resolution

Absolute configuration: *S*

Chao Chen, Shou-Fei Zhu, Xin-Yan Wu* and Qi-Lin Zhou*

Tetrahedron: Asymmetry 17 (2006) 2761



$C_{37}H_{28}N_4O_2$

(*S*)-7,7'-Bis(2-quinolinecarboxamido)-1,1'-spirobiindane

Ee = 100%

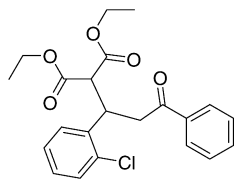
$[\alpha]_D^{20} = -442$ (*c* 0.5, CH_2Cl_2)

Source of chirality: resolution

Absolute configuration: *S*

Chao Chen, Shou-Fei Zhu, Xin-Yan Wu* and Qi-Lin Zhou*

Tetrahedron: Asymmetry 17 (2006) 2761



$C_{22}H_{23}ClO_5$

Diethyl 2-[1-(2-chlorophenyl)-3-oxo-3-phenylpropyl]malonate

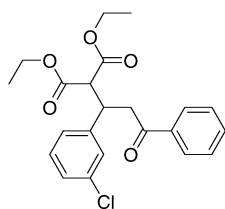
Ee = 49%

$[\alpha]_D^{26} = +35.3$ (*c* 0.15, CH_2Cl_2)

Source of chirality: asymmetric catalysis

Chao Chen, Shou-Fei Zhu, Xin-Yan Wu* and Qi-Lin Zhou*

Tetrahedron: Asymmetry 17 (2006) 2761



$C_{22}H_{23}ClO_5$

Diethyl 2-[1-(3-chlorophenyl)-3-oxo-3-phenylpropyl]malonate

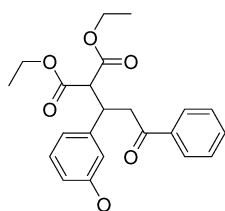
Ee = 53%

$[\alpha]_D^{26} = +17.0$ (c 0.5, CH_2Cl_2)

Source of chirality: asymmetric catalysis

Chao Chen, Shou-Fei Zhu, Xin-Yan Wu* and Qi-Lin Zhou*

Tetrahedron: Asymmetry 17 (2006) 2761



$C_{23}H_{26}O_6$

Diethyl 2-[1-(3-methoxyphenyl)-3-oxo-3-phenylpropyl]malonate

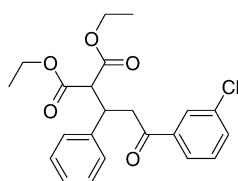
Ee = 49%

$[\alpha]_D^{26} = +12.0$ (c 0.5, CH_2Cl_2)

Source of chirality: asymmetric catalysis

Chao Chen, Shou-Fei Zhu, Xin-Yan Wu* and Qi-Lin Zhou*

Tetrahedron: Asymmetry 17 (2006) 2761



$C_{22}H_{23}ClO_5$

Diethyl 2-[3-(3-chlorophenyl)-3-oxo-1-phenylpropyl]malonate

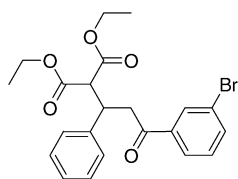
Ee = 53%

$[\alpha]_D^{26} = +13.4$ (c 0.5, CH_2Cl_2)

Source of chirality: asymmetric catalysis

Chao Chen, Shou-Fei Zhu, Xin-Yan Wu* and Qi-Lin Zhou*

Tetrahedron: Asymmetry 17 (2006) 2761



$C_{22}H_{23}BrO_5$

Diethyl 2-[3-(3-bromophenyl)-3-oxo-1-phenylpropyl]malonate

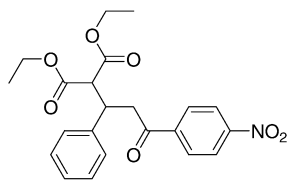
Ee = 53%

$[\alpha]_D^{26} = +12.4$ (c 0.5, CH_2Cl_2)

Source of chirality: asymmetric catalysis

Chao Chen, Shou-Fei Zhu, Xin-Yan Wu* and Qi-Lin Zhou*

Tetrahedron: Asymmetry 17 (2006) 2761



$C_{22}H_{23}NO_7$

Diethyl 2-[3-(4-nitrophenyl)-3-oxo-1-phenylpropyl]malonate

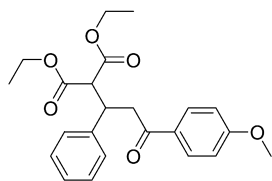
Ee = 54%

$[\alpha]_D^{26} = +15.0$ (c 0.8, CH_2Cl_2)

Source of chirality: asymmetric catalysis

Chao Chen, Shou-Fei Zhu, Xin-Yan Wu* and Qi-Lin Zhou*

Tetrahedron: Asymmetry 17 (2006) 2761



$C_{23}H_{26}O_6$

Diethyl 2-[3-(4-methoxyphenyl)-3-oxo-1-phenylpropyl]malonate

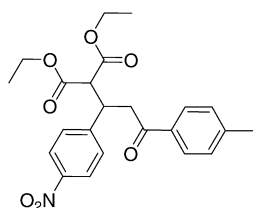
Ee = 53%

$[\alpha]_D^{26} = +15.0$ (c 0.5, CH_2Cl_2)

Source of chirality: asymmetric catalysis

Chao Chen, Shou-Fei Zhu, Xin-Yan Wu* and Qi-Lin Zhou*

Tetrahedron: Asymmetry 17 (2006) 2761



$C_{23}H_{25}NO_7$

Diethyl 2-[1-(4-nitrophenyl)-3-oxo-3-p-tolylpropyl]malonate

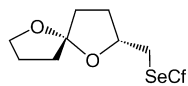
Ee = 51%

$[\alpha]_D^{26} = +19.0$ (c 0.2, CH_2Cl_2)

Source of chirality: asymmetric catalysis

Marcello Tiecco,* Lorenzo Testaferri, Luana Bagnoli, Catalina Scarponi, Andrea Temperini, Francesca Marini and Claudio Santi

Tetrahedron: Asymmetry 17 (2006) 2768



$C_{18}H_{28}O_3Se$

(2*R*,5*S*)-2-[(Camphorseleño)methyl]-1,6-dioxaspiro[4.4]nonane

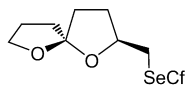
$[\alpha]_D^{17} = +73.0$ (c 1.95, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: 2*R*,5*S*

Marcello Tiecco,* Lorenzo Testaferri, Luana Bagnoli, Catalina Scarponi,
Andrea Temperini, Francesca Marini and Claudio Santi

Tetrahedron: Asymmetry 17 (2006) 2768



$C_{18}H_{28}O_3Se$

(2*S*,5*R*)-2-[(Camphorseleno)methyl]-1,6-dioxaspiro[4.4]nonane

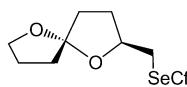
$[\alpha]_D^{18} = -18.2$ (*c* 2.18, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: 2*S*,5*R*

Marcello Tiecco,* Lorenzo Testaferri, Luana Bagnoli, Catalina Scarponi,
Andrea Temperini, Francesca Marini and Claudio Santi

Tetrahedron: Asymmetry 17 (2006) 2768



$C_{18}H_{28}O_3Se$

(2*S*,5*S*)-2-[(Camphorseleno)methyl]-1,6-dioxaspiro[4.4]nonane

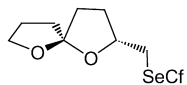
$[\alpha]_D^{16} = +32.7$ (*c* 2.57, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: 2*S*,5*S*

Marcello Tiecco,* Lorenzo Testaferri, Luana Bagnoli, Catalina Scarponi,
Andrea Temperini, Francesca Marini and Claudio Santi

Tetrahedron: Asymmetry 17 (2006) 2768



$C_{18}H_{28}O_3Se$

(2*R*,5*R*)-2-[(Camphorseleno)methyl]-1,6-dioxaspiro[4.4]nonane

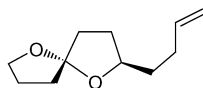
$[\alpha]_D^{18} = -20.2$ (*c* 1.82, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: 2*R*,5*R*

Marcello Tiecco,* Lorenzo Testaferri, Luana Bagnoli, Catalina Scarponi,
Andrea Temperini, Francesca Marini and Claudio Santi

Tetrahedron: Asymmetry 17 (2006) 2768



$C_{11}H_{18}O_2$

(2*R*,5*S*)-2-But-3-enyl-1,6-dioxaspiro[4.4]nonane

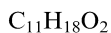
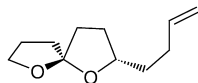
$[\alpha]_D^{16} = +55.3$ (*c* 1.22, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: 2*R*,5*S*

Marcello Tiecco,* Lorenzo Testaferri, Luana Bagnoli, Catalina Scarponi,
Andrea Temperini, Francesca Marini and Claudio Santi

Tetrahedron: Asymmetry 17 (2006) 2768



(2*S*,5*R*)-2-But-3-enyl-1,6-dioxaspiro[4.4]nonane

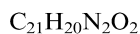
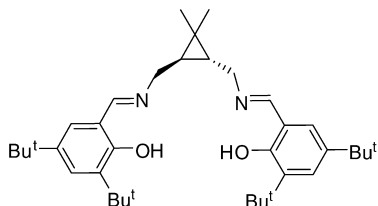
$$[\alpha]_D^{16} = -57.7 (c 1.25, CHCl_3)$$

Source of chirality: asymmetric synthesis

Absolute configuration: 2*S*,5*R*

Guo-Qiang Feng, De-Xian Wang, Qi-Yu Zheng and Mei-Xiang Wang*

Tetrahedron: Asymmetry 17 (2006) 2775



Ee >99%

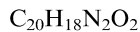
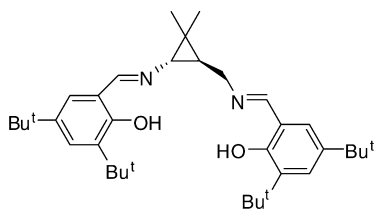
$$[\alpha]_D^{25} = -40 (c 1.0, CH_2Cl_2)$$

Source of chirality: chemoenzymatic synthesis

Absolute configuration: (1*R*,2*R*)

Guo-Qiang Feng, De-Xian Wang, Qi-Yu Zheng and Mei-Xiang Wang*

Tetrahedron: Asymmetry 17 (2006) 2775



Ee >99%

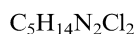
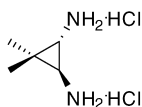
$$[\alpha]_D^{25} = +16 (c 1.5, CH_2Cl_2)$$

Source of chirality: chemoenzymatic synthesis

Absolute configuration: (1*S*,3*S*)

Guo-Qiang Feng, De-Xian Wang, Qi-Yu Zheng and Mei-Xiang Wang*

Tetrahedron: Asymmetry 17 (2006) 2775



(1*S*,2*S*)-3,3-Dimethylcyclopropane-1,2-diamine dihydrochloride

Ee >99%

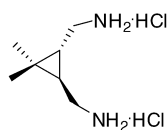
$$[\alpha]_D^{25} = +5.5 (c 1.0, CH_3OH)$$

Source of chirality: chemoenzymatic synthesis

Absolute configuration: (1*S*,2*S*)

Guo-Qiang Feng, De-Xian Wang, Qi-Yu Zheng and Mei-Xiang Wang*

Tetrahedron: Asymmetry 17 (2006) 2775



((1*R*,2*R*)-3,3-dimethylcyclopropane-1,2-diyl) dimethanamine dihydrochloride

Ee >99%

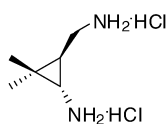
$[\alpha]_D^{25} = -5$ (c 1.0, CH₃OH)

Source of chirality: chemoenzymatic synthesis

Absolute configuration: (1*R*,2*R*)

Guo-Qiang Feng, De-Xian Wang, Qi-Yu Zheng and Mei-Xiang Wang*

Tetrahedron: Asymmetry 17 (2006) 2775



(1*S*,3*S*)-3-(Aminomethyl)-2,2-dimethylcyclopropanamine

Ee >99%

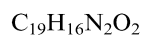
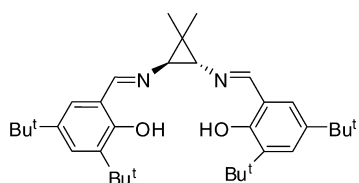
$[\alpha]_D^{25} = -6$ (c 1.0, CH₃OH)

Source of chirality: chemoenzymatic synthesis

Absolute configuration: (1*S*,3*S*)

Guo-Qiang Feng, De-Xian Wang, Qi-Yu Zheng and Mei-Xiang Wang*

Tetrahedron: Asymmetry 17 (2006) 2775



Ee >99%

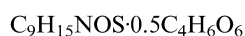
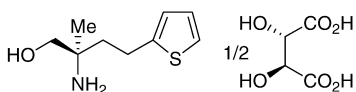
$[\alpha]_D^{25} = +560$ (c 1.0, CHCl₃)

Source of chirality: chemoenzymatic synthesis

Absolute configuration: (1*S*,2*S*)

Tsuyoshi Nakamura, Takashi Tsuji, Yukiko Iio, Shojiro Miyazaki, Toshiyasu Takemoto and Takahide Nishi*

Tetrahedron: Asymmetry 17 (2006) 2781



(2*R*)-Amino-2-methyl-4-(thiophen-2-yl)butan-1-ol 1/2 D-(-)-tartaric acid

Ee = >99%

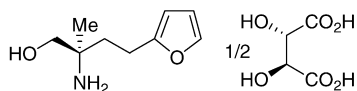
$[\alpha]_D^{24} = -14.0$ (c 1.0, H₂O)

Source of chirality: enzymatic desymmetrization

Absolute configuration: 2*R*

Tsuyoshi Nakamura, Takashi Tsuji, Yukiko Iio, Shojiro Miyazaki,
Toshiyasu Takemoto and Takahide Nishi*

Tetrahedron: Asymmetry 17 (2006) 2781



Ee = >99%

$[\alpha]_D^{24} = -11.9$ (c 1.0, H₂O)

Source of chirality: enzymatic desymmetrization

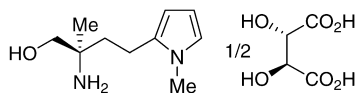
Absolute configuration: 2R

C₉H₁₅NO₂·0.5C₄H₆O₆

(2R)-Amino-2-methyl-4-(furan-2-yl)butan-1-ol 1/2 D-(-)-tartrate

Tsuyoshi Nakamura, Takashi Tsuji, Yukiko Iio, Shojiro Miyazaki,
Toshiyasu Takemoto and Takahide Nishi*

Tetrahedron: Asymmetry 17 (2006) 2781



Ee = >99%

$[\alpha]_D^{24} = -13.3$ (c 1.0, H₂O)

Source of chirality: enzymatic desymmetrization

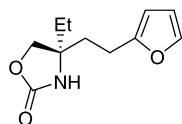
Absolute configuration: 2R

C₁₀H₁₈N₂O·0.5C₄H₆O₆

(2R)-Amino-2-methyl-4-(1-methylpyrrol-2-yl)butan-1-ol 1/2 D-(-)-tartrate

Tsuyoshi Nakamura, Takashi Tsuji, Yukiko Iio, Shojiro Miyazaki,
Toshiyasu Takemoto and Takahide Nishi*

Tetrahedron: Asymmetry 17 (2006) 2781



Ee = 93%

$[\alpha]_D^{24} = +13.9$ (c 3.1, CHCl₃)

Source of chirality: enzymatic desymmetrization

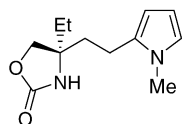
Absolute configuration: 4R

C₁₁H₁₅NO₃

(4R)-Ethyl-4-[2-(furan-2-yl)ethyl]-1,3-oxazolidin-2-one

Tsuyoshi Nakamura, Takashi Tsuji, Yukiko Iio, Shojiro Miyazaki,
Toshiyasu Takemoto and Takahide Nishi*

Tetrahedron: Asymmetry 17 (2006) 2781



Ee = 94%

$[\alpha]_D^{24} = +10.3$ (c 1.0, CHCl₃)

Source of chirality: enzymatic desymmetrization

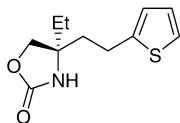
Absolute configuration: 4R

C₁₂H₁₈N₂O₂

(4R)-Ethyl-4-[2-(1-methylpyrrol-2-yl)ethyl]-1,3-oxazolidin-2-one

Tsuyoshi Nakamura, Takashi Tsuji, Yukiko Iio, Shojiro Miyazaki,
Toshiyasu Takemoto and Takahide Nishi*

Tetrahedron: Asymmetry 17 (2006) 2781



$C_{11}H_{15}NO_2S$

(4R)-Ethyl-4-[2-(thiophen-2-yl)ethyl]-1,3-oxazolidin-2-one

Ee = 93%

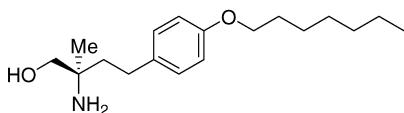
$[\alpha]_D^{24} = +11.9$ (c 1.0, $CHCl_3$)

Source of chirality: enzymatic desymmetrization

Absolute configuration: 4R

Tsuyoshi Nakamura, Takashi Tsuji, Yukiko Iio, Shojiro Miyazaki,
Toshiyasu Takemoto and Takahide Nishi*

Tetrahedron: Asymmetry 17 (2006) 2781



$C_{18}H_{31}NO_2$

(2R)-Amino-4-[4-(heptyloxy)phenyl]-2-methylbutan-1-ol

Ee = >99%

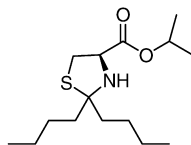
$[\alpha]_D^{24} = -5.6$ (c 0.21, $CHCl_3$)

Source of chirality: enzymatic desymmetrization

Absolute configuration: 2R

Antonio Luiz Braga,* Priscila Milani, Fabrício Vargas,
Márcio W. Paixão and Jasquer A. Sehnem

Tetrahedron: Asymmetry 17 (2006) 2793



$C_{15}H_{29}NO_2S$

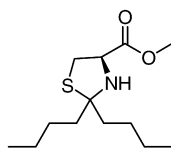
(R)-Isopropyl 2,2-dibutylthiazolidine-4-carboxylate

Calculated: 288.19918; Found: 288.1991

$[\alpha]_D^{20} = -17$ (c 1.0, dichloromethane)

Antonio Luiz Braga,* Priscila Milani, Fabrício Vargas,
Márcio W. Paixão and Jasquer A. Sehnem

Tetrahedron: Asymmetry 17 (2006) 2793



$C_{13}H_{25}NO_2S$

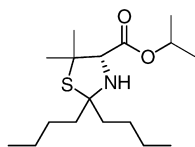
(R)-Methyl 2,2-dibutylthiazolidine-4-carboxylate

Calculated: 260.16788; Found: 260.16787

$[\alpha]_D^{20} = -88$ (c 1.0, dichloromethane)

Antonio Luiz Braga,* Priscila Milani, Fabrício Vargas,
Márcio W. Paixão and Jasquer A. Sehnem

Tetrahedron: Asymmetry 17 (2006) 2793



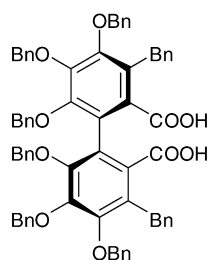
$C_{17}H_{33}NO_2S$

(*S*)-Isopropyl 2,2-dibutyl-5,5-dimethylthiazolidine-4-carboxylate

Calculated: 316.23048; Found: 316.23047
 $[\alpha]_D^{20} = +26$ (*c* 1.0, dichloromethane)

Karamali Khanbabaee,* Sinan Basceken and Ulrich Flörke

Tetrahedron: Asymmetry 17 (2006) 2804



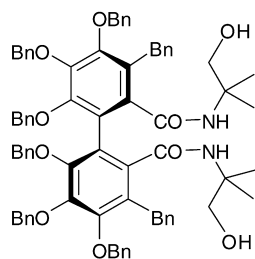
$C_{70}H_{58}O_{10}$

(*aR*)-2,2',3,3',4,4'-Hexabenzoyloxy-5,5'-dibenzyl-6,6'-diphenic acid

$[\alpha]_D = -66$ (*c* 1 g/100 ml, $CHCl_3$)
Absolute configuration: (*aR*)

Karamali Khanbabaee,* Sinan Basceken and Ulrich Flörke

Tetrahedron: Asymmetry 17 (2006) 2804



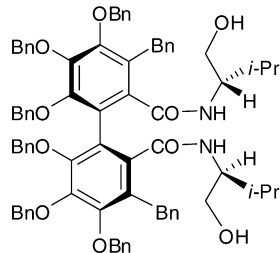
$C_{78}H_{76}N_2O_{10}$

(*aR*)-2,2',3,3',4,4'-Hexabenzoyloxy-5,5'-dibenzyl-6,6'-bis[*N*-(1,1-dimethyl-2-hydroxyethyl)carboxamido]-1,1'-biphenyl

$[\alpha]_D = -19.6$ (*c* 1 g/100 ml, $CHCl_3$)
Absolute configuration: (*aR*)

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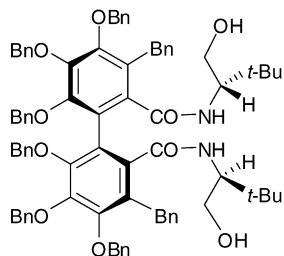
$C_{80}H_{80}N_2O_{10}$

(*aS*)-2,2',3,3',4,4'-Hexabenzoyloxy-5,5'-dibenzyl-6,6'-bis[*N*-(1*S*)-(1-*iso*-propyl-2-hydroxyethyl)carboxamido]-1,1'-biphenyl

$[\alpha]_D = +1.5$ (*c* 1 g/100 ml, $CHCl_3$)
Absolute configuration: (*aS,S,S*)

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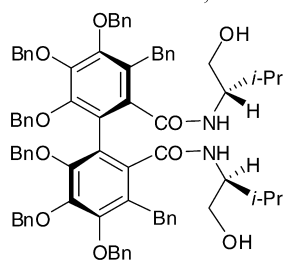
(aS)-2,2',3,3',4,4'-Hexabenzoyloxy-5,5'-dibenzyl-6,6'-bis[N-(1S)-(1-tert-butyl-2-hydroxyethyl)carboxamido]-1,1'-biphenyl

$[\alpha]_D = +16.5$ (c 1 g/100 ml, $CHCl_3$)

Absolute configuration: (aS,S,S)

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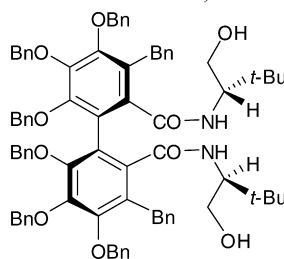
(aR)-2,2',3,3',4,4'-Hexabenzoyloxy-5,5'-dibenzyl-6,6'-bis[N-(1S)-(1-iso-propyl-2-hydroxyethyl)carboxamido]-1,1'-biphenyl

$[\alpha]_D = -45.8$ (c 1 g/100 ml, $CHCl_3$)

Absolute configuration: (aR,S,S)

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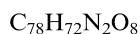
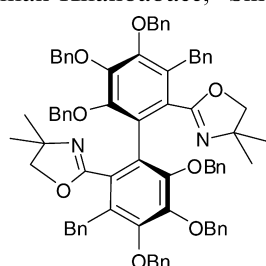
(aR)-2,2',3,3',4,4'-Hexabenzoyloxy-5,5'-dibenzyl-6,6'-bis[N-(1S)-(1-tert-butyl-2-hydroxyethyl)carboxamido]-1,1'-biphenyl

$[\alpha]_D = -57$ (c 1 g/100 ml, $CHCl_3$)

Absolute configuration: (aR,S,S)

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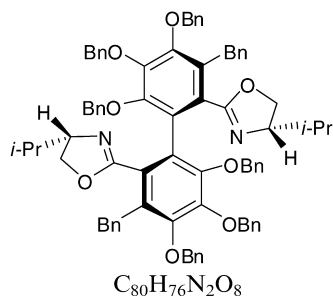
(aR)-2,2',3,3',4,4'-Hexabenzoyloxy-5,5'-dibenzyl-6,6'-bis(4,4-dimethylxazolin-2-yl)-1,1'-biphenyl **9**

$[\alpha]_D = +21.7$ (c 1 g/100 ml, $CHCl_3$)

Absolute configuration: (aR)

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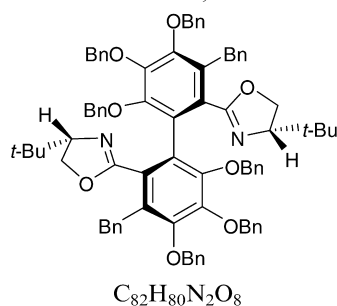
(aS)-2,2',3,3',4,4'-Hexabenzoyloxy-5,5'-dibenzyl-6,6'-bis[(4S)-(iso-propyloxazolin-2-yl)]-1,1'-biphenyl

$[\alpha]_D = -51$ (*c* 1 g/100 ml, $CHCl_3$)

Absolute configuration: (aS,S,S)

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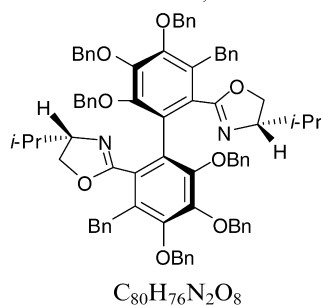
(aS)-2,2',3,3',4,4'-Hexabenzoyloxy-5,5'-dibenzyl-6,6'-bis[(4S)-(tert-butyloxazolin-2-yl)]-1,1'-biphenyl

$[\alpha]_D = -58$ (*c* 1 g/100 ml, $CHCl_3$)

Absolute configuration: (aS,S,S)

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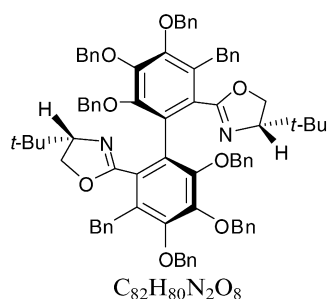
(aR)-2,2',3,3',4,4'-Hexabenzoyloxy-5,5'-dibenzyl-6,6'-bis[(4S)-(iso-propyloxazolin-2-yl)]-1,1'-biphenyl

$[\alpha]_D = +35.5$ (*c* 1 g/100 ml, $CHCl_3$)

Absolute configuration: (aR,S,S)

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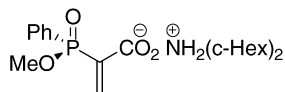
(aR)-2,2',3,3',4,4'-Hexabenzoyloxy-5,5'-dibenzyl-6,6'-bis[(4S)-(tert-butyloxazolin-2-yl)]-1,1'-biphenyl

$[\alpha]_D = +36.5$ (*c* 1 g/100 ml, $CHCl_3$)

Absolute configuration: (aR,S,S)

Henryk Krawczyk,* Marcin Śliwiński and Jacek Kędzia

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$C_{22}H_{34}NO_4P$

(*R*)-2-[Methoxy(phenyl)phosphoryl]acrylic acid, dicyclohexylammonium salt

Ee = 99%

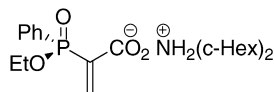
$[\alpha]_D = -14.1$ (*c* 0.57, $CHCl_3$)

Source of chirality: optical resolution

Absolute configuration: (*R*)

Henryk Krawczyk,* Marcin Śliwiński and Jacek Kędzia

Tetrahedron: Asymmetry 17 (2006) 2817



$C_{23}H_{36}NO_4P$

(*R*)-2-[Ethoxy(phenyl)phosphoryl]acrylic acid, dicyclohexylammonium salt

Ee = 99%

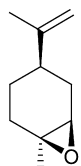
$[\alpha]_D = -14.4$ (*c* 1.06, $CHCl_3$)

Source of chirality: optical resolution

Absolute configuration: (*R*)

Philip C. Andrews,* Michael Blair, Benjamin H. Fraser,
Peter C. Junk, Massimiliano Massi and Kellie L. Tuck

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$C_{10}H_{16}O$

(+)-*trans*-Limonene oxide

Ee 98%

$[\alpha]_D = +78$ (neat)

Source of chirality: kinetic separation of commercially available diastereoisomers

Absolute configuration: (1*S*,2*R*,4*R*)