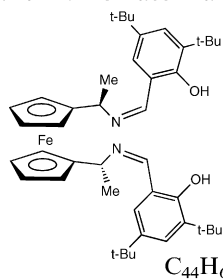


Stereochemistry abstracts

Francesco P. Ballistreri,* Angela Patti,* Sonia Pedotti,
Gaetano A. Tomaselli and Rosa M. Toscano

Tetrahedron: Asymmetry 18 (2007) 2377



$C_{44}H_{60}FeN_2O_2$

(*R,R*)-*N,N'*-Bis(3,5-di-*tert*-butylsalicydene)-1,1'-(α -aminoethyl)ferrocene

$E_e = >98\%$ (chiral HPLC of a precursor)

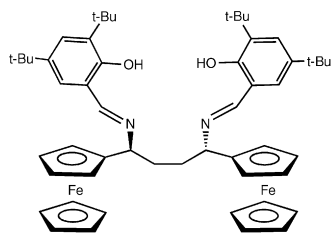
$[\alpha]_D = -164.8$ (c 0.2, $CHCl_3$)

Source of chirality: asymmetric reduction of carbonyl precursor

Absolute configuration: (*R,R*)

Francesco P. Ballistreri,* Angela Patti,* Sonia Pedotti,
Gaetano A. Tomaselli and Rosa M. Toscano

Tetrahedron: Asymmetry 18 (2007) 2377



$C_{54}H_{68}FeN_2O_2$

(*S,S*)-*N,N'*-Bis(3,5-di-*tert*-butylsalicydene)-1,4-diferrocenyl-1,4-butanediamine

$E_e = >99\%$ (chiral HPLC of a precursor)

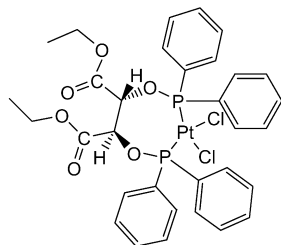
$[\alpha]_D = +129.2$ (c 0.9, $CHCl_3$)

Source of chirality: asymmetric reduction of carbonyl precursor

Absolute configuration: (*S,S*)

Rakesh K. Sharma and Ashoka G. Samuelson*

Tetrahedron: Asymmetry 18 (2007) 2387



$C_{32}H_{32}P_2O_6PtCl_2$

[(*2R,3R*)-Diethyl 2,3-bis(diphenylphosphinoxy)succinate $PtCl_2$]

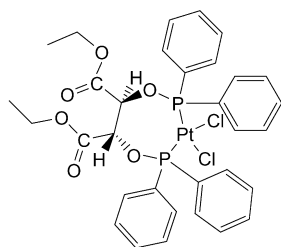
$[\alpha]_D^{25} = +68.8$ (c 2.0, $CHCl_3$)

Source of chirality: L-tartaric acid

Absolute configuration: (*2R,3R*)

Rakesh K. Sharma and Ashoka G. Samuelson*

Tetrahedron: Asymmetry 18 (2007) 2387



$C_{32}H_{32}P_2O_6PtCl_2$

[(*2S,3S*)-Diethyl 2,3-bis(diphenylphosphinoxy)succinate $PtCl_2$]

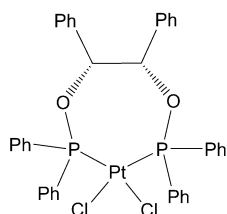
$[\alpha]_D^{25} = -61.1$ (c 2.0, $CHCl_3$)

Source of chirality: D-tartaric acid

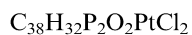
Absolute configuration: (*2S,3S*)

Rakesh K. Sharma and Ashoka G. Samuelson*

Tetrahedron: Asymmetry 18 (2007) 2387



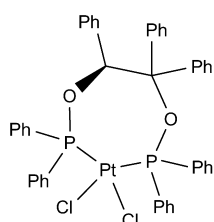
$[\alpha]_D^{25} = -12.3$ (*c* 1.2, CHCl₃)
Source of chirality: (*R,R*)-hydrobenzoin
Absolute configuration: (*1R,2R*)



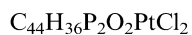
[(*1R,2R*)-1,2-Bis(diphenylphosphinoxy)-1,2-diphenylethane PtCl₂]

Rakesh K. Sharma and Ashoka G. Samuelson*

Tetrahedron: Asymmetry 18 (2007) 2387



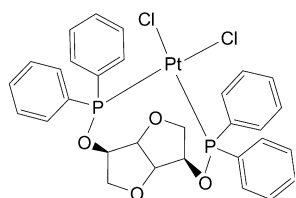
$[\alpha]_D^{25} = +9.6$ (*c* 0.5, CHCl₃)
Source of chirality: (*S*)-(+)-1,1,2-triphenylethanol
Absolute configuration: (*S*)



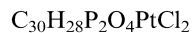
[(*S*)-1,2-Bis(diphenylphosphinoxy)-1,1,2-triphenylethane PtCl₂]

Rakesh K. Sharma and Ashoka G. Samuelson*

Tetrahedron: Asymmetry 18 (2007) 2387



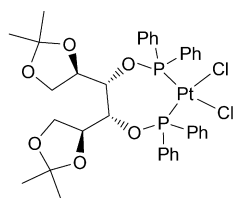
$[\alpha]_D^{25} = +16.2$ (*c* 0.5, CH₂Cl₂)
Source of chirality: isomannide
Absolute configuration: (*3S,6S*)



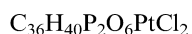
[(*3S,6S*)-3,6-Bis(diphenylphosphinoxy)-hexahydrofuro[3,2-*b*]furan PtCl₂]

Rakesh K. Sharma and Ashoka G. Samuelson*

Tetrahedron: Asymmetry 18 (2007) 2387



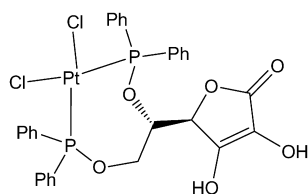
$[\alpha]_D^{25} = +23.1$ (*c* 0.2, CHCl₃)
Source of chirality: D-mannitol
Absolute configuration: (*R,S,R,S*)



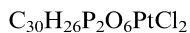
[(*R*)-4-((*1S,2R*)-2-((*S*)-2,2-Dimethyl-1,3-dioxolan-4-yl)-1,2-bis(diphenylphosphinoxy)ethyl)-2,2-dimethyl-1,3-dioxolane PtCl₂]

Rakesh K. Sharma and Ashoka G. Samuelson*

Tetrahedron: Asymmetry 18 (2007) 2387



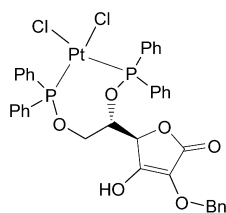
$[\alpha]_D^{25} = +29.6$ (*c* 1.1, DMSO)
Source of chirality: ascorbic acid
Absolute configuration: (*R,S*)



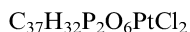
[(*R*)-5-((*S*)-1,2-Bis(diphenylphosphinoxy)ethyl)-3,4-dihydroxyfuran-2(5*H*)-one PtCl₂]

Rakesh K. Sharma and Ashoka G. Samuelson*

Tetrahedron: Asymmetry 18 (2007) 2387



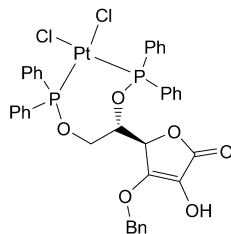
$[\alpha]_D^{25} = +18.1$ (*c* 1.7, CHCl₃)
Source of chirality: ascorbic acid
Absolute configuration: (*R,S*)



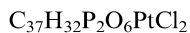
[(*R*)-5-((*S*)-1,2-Bis(diphenylphosphinoxy)ethyl)-3-(benzyloxy)-4-hydroxyfuran-2(5*H*)-one PtCl₂]

Rakesh K. Sharma and Ashoka G. Samuelson*

Tetrahedron: Asymmetry 18 (2007) 2387



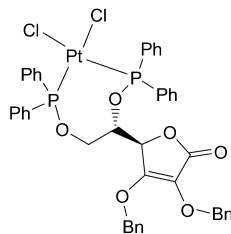
$[\alpha]_D^{25} = +26.7$ (*c* 1.3, CHCl₃)
Source of chirality: ascorbic acid
Absolute configuration: (*R,S*)



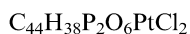
[(*R*)-5-((*S*)-1,2-Bis(diphenylphosphinoxy)ethyl)-4-(benzyloxy)-4-hydroxyfuran-2(5*H*)-one PtCl₂]

Rakesh K. Sharma and Ashoka G. Samuelson*

Tetrahedron: Asymmetry 18 (2007) 2387



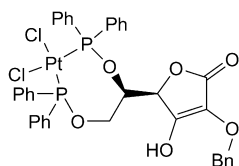
$[\alpha]_D^{25} = +31.5$ (*c* 1.0, CHCl₃)
Source of chirality: ascorbic acid
Absolute configuration: (*R,S*)



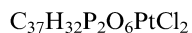
[(*R*)-5-((*S*)-1,2-Bis(diphenylphosphinoxy)ethyl)-3,4-bis(benzyloxy)furan-2(5*H*)-one PtCl₂]

Rakesh K. Sharma and Ashoka G. Samuelson*

Tetrahedron: Asymmetry 18 (2007) 2387



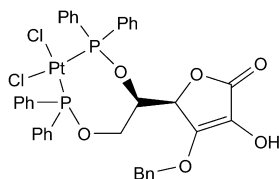
$[\alpha]_D^{25} = -20.1$ (*c* 1.0, CHCl₃)
Source of chirality: isoascorbic acid
Absolute configuration: (*R,R*)



[(*R*)-5-((*R*)-1,2-Bis(diphenylphosphinoxy)ethyl)-3-(benzyloxy)-4-hydroxyfuran-2(*5H*)-one PtCl₂]

Rakesh K. Sharma and Ashoka G. Samuelson*

Tetrahedron: Asymmetry 18 (2007) 2387



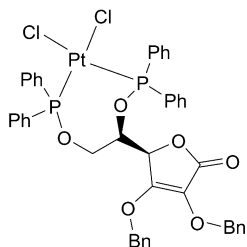
$[\alpha]_D^{25} = -16.2$ (*c* 1.0, CHCl₃)
Source of chirality: isoascorbic acid
Absolute configuration: (*R,R*)



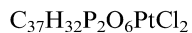
[(*R*)-5-((*R*)-1,2-Bis(diphenylphosphinoxy)ethyl)-4-(benzyloxy)-4-hydroxyfuran-2(*5H*)-one PtCl₂]

Rakesh K. Sharma and Ashoka G. Samuelson*

Tetrahedron: Asymmetry 18 (2007) 2387



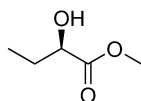
$[\alpha]_D^{25} = -27.7$ (*c* 2.0, CHCl₃)
Source of chirality: isoascorbic acid
Absolute configuration: (*R,R*)



[(*R*)-5-((*R*)-1,2-Bis(diphenylphosphinoxy)ethyl)-3,4-bis(benzyloxy)furan-2(*5H*)-one PtCl₂]

Atsushi Nakagawa, Ko Kato, Atsuhiko Shinmyo and Toshio Suzuki*

Tetrahedron: Asymmetry 18 (2007) 2394



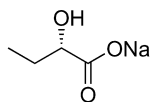
Ee >98%
 $[\alpha]_D^{20} = +2.45$ (neat)
Source of chirality: microbial resolution
Absolute configuration: (*R*)



Methyl (*R*)-2-hydroxybutyrate

Atsushi Nakagawa, Ko Kato, Atsuhiko Shinmyo and Toshio Suzuki*

Tetrahedron: Asymmetry 18 (2007) 2394



C₄H₇O₃Na

(*S*)-2-Hydroxybutyric acid sodium salt

Ee >98%

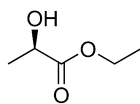
[α]_D²⁰ = -10.4 (*c* 10, H₂O)

Source of chirality: microbial resolution

Absolute configuration: (*S*)

Atsushi Nakagawa, Ko Kato, Atsuhiko Shinmyo and Toshio Suzuki*

Tetrahedron: Asymmetry 18 (2007) 2394



C₅H₁₀O₃

Ethyl (*R*)-lactate

Ee >98%

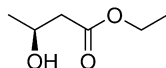
[α]_D²⁰ = +11.2 (neat)

Source of chirality: microbial resolution

Absolute configuration: (*R*)

Atsushi Nakagawa, Ko Kato, Atsuhiko Shinmyo and Toshio Suzuki*

Tetrahedron: Asymmetry 18 (2007) 2394



C₆H₁₂O₃

Ethyl (*S*)-3-hydroxybutyrate

Ee >99%

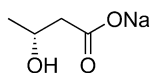
[α]_D²⁰ = +18.0 (neat)

Source of chirality: microbial resolution

Absolute configuration: (*S*)

Atsushi Nakagawa, Ko Kato, Atsuhiko Shinmyo and Toshio Suzuki*

Tetrahedron: Asymmetry 18 (2007) 2394



C₄H₇O₃Na

(*R*)-3-Hydroxybutyric acid sodium salt

Ee >99%

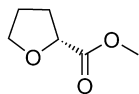
[α]_D²⁰ = -14.1 (*c* 10, H₂O)

Source of chirality: microbial resolution

Absolute configuration: (*R*)

Atsushi Nakagawa, Ko Kato, Atsuhiko Shinmyo and Toshio Suzuki*

Tetrahedron: Asymmetry 18 (2007) 2394



C₆H₁₀O₃

Methyl (*R*)-tetrahydrofuran-2-carboxylate

Ee >98%

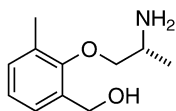
[α]_D²⁰ = -17.7 (neat)

Source of chirality: microbial resolution

Absolute configuration: (*R*)

Maria Maddalena Cavalluzzi, Alessia Catalano, Claudio Bruno, Angelo Lovece, Alessia Carocci, Filomena Corbo, Carlo Franchini, Giovanni Lentini* and Vincenzo Tortorella

Tetrahedron: Asymmetry 18 (2007) 2409



C₁₁H₁₇NO₂

(-)-(*R*)-[2-(2-Aminopropoxy)-3-methylphenyl]methanol

Ee = 98%

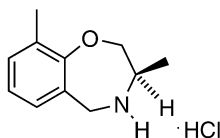
[α]_D²⁰ = -9.6 (*c* 2, CHCl₃)

Source of chirality: chiral pool

Absolute configuration: (*R*)

Maria Maddalena Cavalluzzi, Alessia Catalano, Claudio Bruno, Angelo Lovece, Alessia Carocci, Filomena Corbo, Carlo Franchini, Giovanni Lentini* and Vincenzo Tortorella

Tetrahedron: Asymmetry 18 (2007) 2409



C₁₁H₁₆ClNO

(+)-(*R*)-3,9-Dimethyl-2,3,4,5-tetrahydro-1,4-benzoxazepine hydrochloride

Ee = 98%

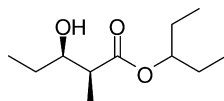
[α]_D²⁰ = +71.0 (*c* 0.4, CHCl₃)

Source of chirality: chiral pool

Absolute configuration: (*R*)

Dimitris Kalaitzakis, Spiros Kambourakis, David J. Rozzell and Ioulia Smonou*

Tetrahedron: Asymmetry 18 (2007) 2418



C₁₁H₂₂O₃

(2*S*,3*R*)-1-Ethylpropyl 3-hydroxy-2-methylpentanoate

Ee = >99%

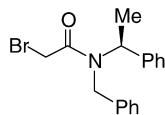
[α]_D²⁵ = -3.1 (*c* 1.7 CHCl₃)

Source of chirality: enzyme catalyzed asymmetric reduction

Absolute configuration: (2*S*,3*R*)

Mario Ordóñez,* Eugenio Hernández-Fernández, Martín Montiel-Pérez,
Rafael Bautista, Paola Bustos, Haydée Rojas-Cabrera,
Mario Fernández-Zertuche and Oscar García-Barradas

Tetrahedron: Asymmetry 18 (2007) 2427



C₁₇H₁₉BrNO

(*S*)-2-Bromoacetyl(α -methylbenzyl)benzylamine

Ee >98%

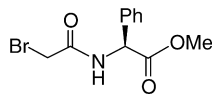
$[\alpha]_D = -115.1$ (*c* 2.8, CHCl₃)

Source of chirality: chemical reaction

Absolute configuration: (*S*)

Mario Ordóñez,* Eugenio Hernández-Fernández, Martín Montiel-Pérez,
Rafael Bautista, Paola Bustos, Haydée Rojas-Cabrera,
Mario Fernández-Zertuche and Oscar García-Barradas

Tetrahedron: Asymmetry 18 (2007) 2427



C₁₁H₁₂BrNO₃

(*S*)-Methyl 2-(2-bromoacetamide)-2-phenylacetate

Ee >98%

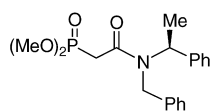
$[\alpha]_D = +120.8$ (*c* 1.16, CHCl₃)

Source of chirality: chemical reaction

Absolute configuration: (*S*)

Mario Ordóñez,* Eugenio Hernández-Fernández, Martín Montiel-Pérez,
Rafael Bautista, Paola Bustos, Haydée Rojas-Cabrera,
Mario Fernández-Zertuche and Oscar García-Barradas

Tetrahedron: Asymmetry 18 (2007) 2427



C₁₉H₂₄NO₄P

(*S*)-2-(Dimethoxyphosphorylacetyl)(α -methylbenzyl)benzylamine

Ee >98%

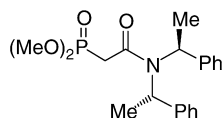
$[\alpha]_D = -80.5$ (*c* 2.14, CHCl₃)

Source of chirality: chemical reaction

Absolute configuration: (*S*)

Mario Ordóñez,* Eugenio Hernández-Fernández, Martín Montiel-Pérez,
Rafael Bautista, Paola Bustos, Haydée Rojas-Cabrera,
Mario Fernández-Zertuche and Oscar García-Barradas

Tetrahedron: Asymmetry 18 (2007) 2427



C₂₀H₂₆NO₄P

(*S,S*)-2-(Dimethoxyphosphorylacetyl)-bis(α -methylbenzyl)amine

Ee >98%

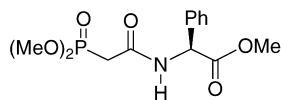
$[\alpha]_D = -112.3$ (*c* 2.02, CHCl₃)

Source of chirality: chemical reaction

Absolute configuration: (*S,S*)

Mario Ordóñez,* Eugenio Hernández-Fernández, Martín Montiel-Pérez,
Rafael Bautista, Paola Bustos, Haydée Rojas-Cabrera,
Mario Fernández-Zertuche and Oscar García-Barradas

Tetrahedron: Asymmetry 18 (2007) 2427



C₁₃H₁₉NO₆P

(*S*)-Methyl 2-[2-(dimethoxyphosphoryl)acetamide]-2-phenylacetate

Ee >98%

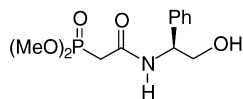
[α]_D = +122.75 (c 1.06, CHCl₃)

Source of chirality: chemical reaction

Absolute configuration: (*S*)

Mario Ordóñez,* Eugenio Hernández-Fernández, Martín Montiel-Pérez,
Rafael Bautista, Paola Bustos, Haydée Rojas-Cabrera,
Mario Fernández-Zertuche and Oscar García-Barradas

Tetrahedron: Asymmetry 18 (2007) 2427



C₁₂H₁₉NO₅P

(*S*)-2-(2-Dimethoxyphosphoryl)acetamide-2-phenylethanol

Ee >98%

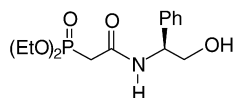
[α]_D = +34.5 (c 2.98, CHCl₃)

Source of chirality: chemical reaction

Absolute configuration: (*S*)

Mario Ordóñez,* Eugenio Hernández-Fernández, Martín Montiel-Pérez,
Rafael Bautista, Paola Bustos, Haydée Rojas-Cabrera,
Mario Fernández-Zertuche and Oscar García-Barradas

Tetrahedron: Asymmetry 18 (2007) 2427



C₁₄H₂₃NO₅P

(*S*)-2-(2-Diethoxyphosphoryl)acetamide-2-phenylethanol

Ee >98%

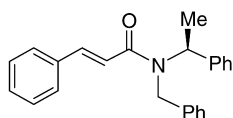
[α]_D = +41.8 (c 2.88, CHCl₃)

Source of chirality: chemical reaction

Absolute configuration: (*S*)

Mario Ordóñez,* Eugenio Hernández-Fernández, Martín Montiel-Pérez,
Rafael Bautista, Paola Bustos, Haydée Rojas-Cabrera,
Mario Fernández-Zertuche and Oscar García-Barradas

Tetrahedron: Asymmetry 18 (2007) 2427



C₂₄H₂₃NO

(*S*)-(*E*)-*N*-(Cinnamoyl)-(α -methylbenzyl)benzylamine

Ee >98%

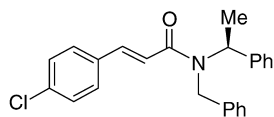
[α]_D = -182.8 (c 4.80, CHCl₃)

Source of chirality: chemical reaction

Absolute configuration: (*S*)-(*E*)

Mario Ordóñez,* Eugenio Hernández-Fernández, Martín Montiel-Pérez,
Rafael Bautista, Paola Bustos, Haydée Rojas-Cabrera,
Mario Fernández-Zertuche and Oscar García-Barradas

Tetrahedron: Asymmetry 18 (2007) 2427



C₂₄H₂₂ClNO

(*S*)-(*E*)-*N*-(*p*-Chlorocinnamoyl)-(α -methylbenzyl)benzylamine

Ee >98%

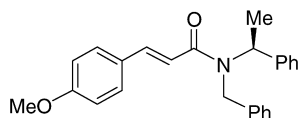
$[\alpha]_D = -170.7$ (*c* 3.03, CHCl₃)

Source of chirality: chemical reaction

Absolute configuration: (*S*)-(*E*)

Mario Ordóñez,* Eugenio Hernández-Fernández, Martín Montiel-Pérez,
Rafael Bautista, Paola Bustos, Haydée Rojas-Cabrera,
Mario Fernández-Zertuche and Oscar García-Barradas

Tetrahedron: Asymmetry 18 (2007) 2427



C₂₅H₂₅NO₂

(*S*)-(*E*)-*N*-(*p*-Methoxycinnamoyl)-(α -methylbenzyl)benzylamine

Ee >98%

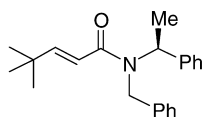
$[\alpha]_D = -185.3$ (*c* 2.42, CHCl₃)

Source of chirality: chemical reaction

Absolute configuration: (*S*)-(*E*)

Mario Ordóñez,* Eugenio Hernández-Fernández, Martín Montiel-Pérez,
Rafael Bautista, Paola Bustos, Haydée Rojas-Cabrera,
Mario Fernández-Zertuche and Oscar García-Barradas

Tetrahedron: Asymmetry 18 (2007) 2427



C₂₂H₂₇NO

(*S*)-(*E*)-*N*-(3-*tert*-Butylacryloyl)-(α -methylbenzyl)benzylamine

Ee >98%

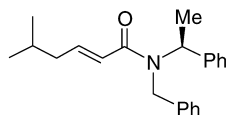
$[\alpha]_D = -156.3$ (*c* 2.63, CHCl₃)

Source of chirality: chemical reaction

Absolute configuration: (*S*)-(*E*)

Mario Ordóñez,* Eugenio Hernández-Fernández, Martín Montiel-Pérez,
Rafael Bautista, Paola Bustos, Haydée Rojas-Cabrera,
Mario Fernández-Zertuche and Oscar García-Barradas

Tetrahedron: Asymmetry 18 (2007) 2427



C₂₂H₂₇NO

(*S*)-(*E*)-*N*-(3-*iso*-Butylacryloyl)-(α -methylbenzyl)benzylamine

Ee >98%

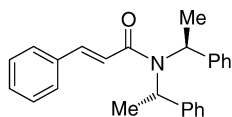
$[\alpha]_D = -142.8$ (*c* 2.0, CHCl₃)

Source of chirality: chemical reaction

Absolute configuration: (*S*)-(*E*)

Mario Ordóñez,* Eugenio Hernández-Fernández, Martín Montiel-Pérez,
Rafael Bautista, Paola Bustos, Haydée Rojas-Cabrera,
Mario Fernández-Zertuche and Oscar García-Barradas

Tetrahedron: Asymmetry 18 (2007) 2427



$C_{25}H_{25}NO$

(*S,S*)-(*E*)-*N*-(Cinnamoyl)-bis(α -methylbenzyl)amine

Ee >98%

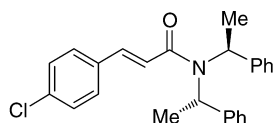
$[\alpha]_D = +6.79$ (*c* 3.22, $CHCl_3$)

Source of chirality: chemical reaction

Absolute configuration: (*S,S*)-(*E*)

Mario Ordóñez,* Eugenio Hernández-Fernández, Martín Montiel-Pérez,
Rafael Bautista, Paola Bustos, Haydée Rojas-Cabrera,
Mario Fernández-Zertuche and Oscar García-Barradas

Tetrahedron: Asymmetry 18 (2007) 2427



$C_{25}H_{24}ClNO$

(*S,S*)-(*E*)-*N*-(*p*-Chlorocinnamoyl)-bis(α -methylbenzyl)amine

Ee >98%

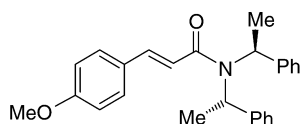
$[\alpha]_D = +48.3$ (*c* 3.66, $CHCl_3$)

Source of chirality: chemical reaction

Absolute configuration: (*S,S*)-(*E*)

Mario Ordóñez,* Eugenio Hernández-Fernández, Martín Montiel-Pérez,
Rafael Bautista, Paola Bustos, Haydée Rojas-Cabrera,
Mario Fernández-Zertuche and Oscar García-Barradas

Tetrahedron: Asymmetry 18 (2007) 2427



$C_{26}H_{27}NO_2$

(*S,S*)-(*E*)-*N*-(*p*-Methoxycinnamoyl)-bis(α -methylbenzyl)amine

Ee >98%

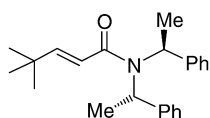
$[\alpha]_D = +56.4$ (*c* 3.77, $CHCl_3$)

Source of chirality: chemical reaction

Absolute configuration: (*S,S*)-(*E*)

Mario Ordóñez,* Eugenio Hernández-Fernández, Martín Montiel-Pérez,
Rafael Bautista, Paola Bustos, Haydée Rojas-Cabrera,
Mario Fernández-Zertuche and Oscar García-Barradas

Tetrahedron: Asymmetry 18 (2007) 2427



$C_{23}H_{29}NO$

(*S,S*)-(*E*)-*N*-(3-*tert*-Butylacryloyl)-bis(α -methylbenzyl)amine

Ee >98%

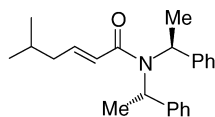
$[\alpha]_D = -170.9$ (*c* 3.64, $CHCl_3$)

Source of chirality: chemical reaction

Absolute configuration: (*S,S*)-(*E*)

Mario Ordóñez,* Eugenio Hernández-Fernández, Martín Montiel-Pérez,
Rafael Bautista, Paola Bustos, Haydée Rojas-Cabrera,
Mario Fernández-Zertuche and Oscar García-Barradas

Tetrahedron: Asymmetry 18 (2007) 2427



$C_{23}H_{29}NO$

(*S,S*)-(*E*)-*N*-(3-*iso*-Butylacryloyl)-bis(α -methylbenzyl)amine

Ee >98%

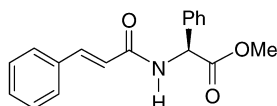
$[\alpha]_D = -81.7$ (*c* 1.66, $CHCl_3$)

Source of chirality: chemical reaction

Absolute configuration: (*S,S*)-(*E*)

Mario Ordóñez,* Eugenio Hernández-Fernández, Martín Montiel-Pérez,
Rafael Bautista, Paola Bustos, Haydée Rojas-Cabrera,
Mario Fernández-Zertuche and Oscar García-Barradas

Tetrahedron: Asymmetry 18 (2007) 2427



$C_{18}H_{17}NO_3$

(*S*)-(*E*)-Methyl *N*-(cinnamoyl)-2-amino-2-phenylacetate

Ee >98%

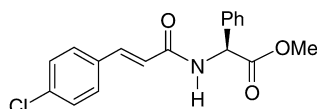
$[\alpha]_D = +39.9$ (*c* 1.26, $CHCl_3$)

Source of chirality: chemical reaction

Absolute configuration: (*S*)-(*E*)

Mario Ordóñez,* Eugenio Hernández-Fernández, Martín Montiel-Pérez,
Rafael Bautista, Paola Bustos, Haydée Rojas-Cabrera,
Mario Fernández-Zertuche and Oscar García-Barradas

Tetrahedron: Asymmetry 18 (2007) 2427



$C_{18}H_{16}ClNO_3$

(*S*)-(*E*)-Methyl *N*-(*p*-chlorocinnamoyl)-2-amino-2-phenylacetate

Ee >98%

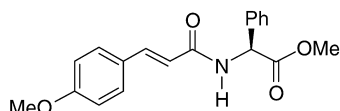
$[\alpha]_D = +69.8$ (*c* 1.1, $CHCl_3$)

Source of chirality: chemical reaction

Absolute configuration: (*S*)-(*E*)

Mario Ordóñez,* Eugenio Hernández-Fernández, Martín Montiel-Pérez,
Rafael Bautista, Paola Bustos, Haydée Rojas-Cabrera,
Mario Fernández-Zertuche and Oscar García-Barradas

Tetrahedron: Asymmetry 18 (2007) 2427



$C_{19}H_{19}NO_4$

(*S*)-(*E*)-Methyl *N*-(*p*-methoxycinnamoyl)-2-amino-2-phenylacetate

Ee >98%

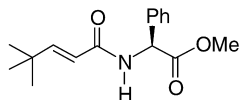
$[\alpha]_D = -2.2$ (*c* 1.1, $CHCl_3$)

Source of chirality: chemical reaction

Absolute configuration: (*S*)-(*E*)

Mario Ordóñez,* Eugenio Hernández-Fernández, Martín Montiel-Pérez,
Rafael Bautista, Paola Bustos, Haydée Rojas-Cabrera,
Mario Fernández-Zertuche and Oscar García-Barradas

Tetrahedron: Asymmetry 18 (2007) 2427



$C_{16}H_{21}NO_3$

(*S*)-(*E*)-Methyl *N*-(3-*tert*-butylacryloyl)-2-amino-2-phenylacetate

Ee >98%

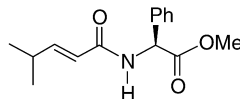
$[\alpha]_D = -1.1$ (*c* 2.8, $CHCl_3$)

Source of chirality: chemical reaction

Absolute configuration: (*S*)-(*E*)

Mario Ordóñez,* Eugenio Hernández-Fernández, Martín Montiel-Pérez,
Rafael Bautista, Paola Bustos, Haydée Rojas-Cabrera,
Mario Fernández-Zertuche and Oscar García-Barradas

Tetrahedron: Asymmetry 18 (2007) 2427



$C_{15}H_{19}NO_3$

(*S*)-(*E*)-Methyl *N*-(3-*iso*-propylacryloyl)-2-amino-2-phenylacetate

Ee >98%

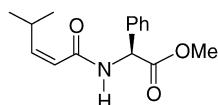
$[\alpha]_D = +0.8$ (*c* 2.37, $CHCl_3$)

Source of chirality: chemical reaction

Absolute configuration: (*S*)-(*E*)

Mario Ordóñez,* Eugenio Hernández-Fernández, Martín Montiel-Pérez,
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Mario Fernández-Zertuche and Oscar García-Barradas

Tetrahedron: Asymmetry 18 (2007) 2427



$C_{15}H_{19}NO_3$

(*S*)-(*Z*)-Methyl *N*-(3-*iso*-propylacryloyl)-2-amino-2-phenylacetate

Ee >98%

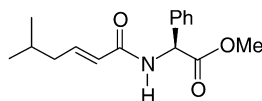
$[\alpha]_D = +7.2$ (1.36, $CHCl_3$)

Source of chirality: chemical reaction

Absolute configuration: (*S*)-(*Z*)

Mario Ordóñez,* Eugenio Hernández-Fernández, Martín Montiel-Pérez,
Rafael Bautista, Paola Bustos, Haydée Rojas-Cabrera,
Mario Fernández-Zertuche and Oscar García-Barradas

Tetrahedron: Asymmetry 18 (2007) 2427



$C_{16}H_{21}NO_3$

(*S*)-(*E*)-Methyl *N*-(3-*iso*-butylacryloyl)-2-amino-2-phenylacetate

Ee >98%

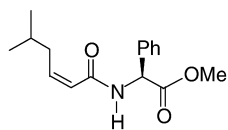
$[\alpha]_D = +86.15$ (*c* 0.78, $CHCl_3$)

Source of chirality: chemical reaction

Absolute configuration: (*S*)-(*E*)

Mario Ordóñez,* Eugenio Hernández-Fernández, Martín Montiel-Pérez,
Rafael Bautista, Paola Bustos, Haydée Rojas-Cabrera,
Mario Fernández-Zertuche and Oscar García-Barradas

Tetrahedron: Asymmetry 18 (2007) 2427



C₁₆H₂₁NO₃

(S)-(Z)-Methyl *N*-(3-*iso*-butylacryloyl)-2-amino-2-phenylacetate

Ee >98%

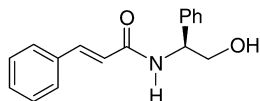
[α]_D = +0.1 (c 0.6, CHCl₃)

Source of chirality: chemical reaction

Absolute configuration: (S)-(Z)

Mario Ordóñez,* Eugenio Hernández-Fernández, Martín Montiel-Pérez,
Rafael Bautista, Paola Bustos, Haydée Rojas-Cabrera,
Mario Fernández-Zertuche and Oscar García-Barradas

Tetrahedron: Asymmetry 18 (2007) 2427



C₁₇H₁₇NO₂

(S)-*N*-(Cinnamoyl)-2-amino-2-phenylethanol

Ee >98%

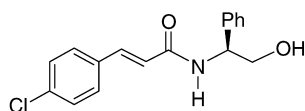
[α]_D = -29.8 (c 2.47, MeOH)

Source of chirality: chemical reaction

Absolute configuration: (S)-(E)

Mario Ordóñez,* Eugenio Hernández-Fernández, Martín Montiel-Pérez,
Rafael Bautista, Paola Bustos, Haydée Rojas-Cabrera,
Mario Fernández-Zertuche and Oscar García-Barradas

Tetrahedron: Asymmetry 18 (2007) 2427



C₁₇H₁₆ClNO₂

(S)-*N*-(*p*-Chlorocinnamoyl)-2-amino-2-phenylethanol

Ee >98%

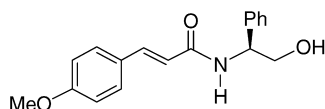
[α]_D = -51.1 (c 2.1, MeOH)

Source of chirality: chemical reaction

Absolute configuration: (S)-(E)

Mario Ordóñez,* Eugenio Hernández-Fernández, Martín Montiel-Pérez,
Rafael Bautista, Paola Bustos, Haydée Rojas-Cabrera,
Mario Fernández-Zertuche and Oscar García-Barradas

Tetrahedron: Asymmetry 18 (2007) 2427



C₁₈H₁₉NO₃

(S)-*N*-(*p*-Methoxycinnamoyl)-2-amino-2-phenylethanol

Ee >98%

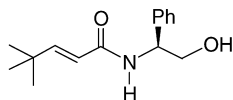
[α]_D = -71.4 (c 2.6, MeOH)

Source of chirality: chemical reaction

Absolute configuration: (S)-(E)

Mario Ordóñez,* Eugenio Hernández-Fernández, Martín Montiel-Pérez,
Rafael Bautista, Paola Bustos, Haydée Rojas-Cabrera,
Mario Fernández-Zertuche and Oscar García-Barradas

Tetrahedron: Asymmetry 18 (2007) 2427



C₁₅H₂₁NO₂

(*S*)-(*E*)-*N*-(3-*tert*-Butylacryloyl)-2-amino-2-phenylethanol

Ee >98%

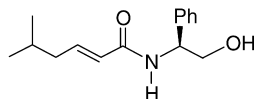
[α]_D = +97.5 (c 2.74, MeOH)

Source of chirality: chemical reaction

Absolute configuration: (*S*)-(*E*)

Mario Ordóñez,* Eugenio Hernández-Fernández, Martín Montiel-Pérez,
Rafael Bautista, Paola Bustos, Haydée Rojas-Cabrera,
Mario Fernández-Zertuche and Oscar García-Barradas

Tetrahedron: Asymmetry 18 (2007) 2427



C₁₄H₁₉NO₂

(*S*)-(*E*)-*N*-(3-*iso*-Butylacryloyl)-2-amino-2-phenylethanol

Ee >98%

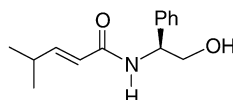
[α]_D = +66.2 (c 0.95, CHCl₃)

Source of chirality: chemical reaction

Absolute configuration: (*S*)-(*E*)

Mario Ordóñez,* Eugenio Hernández-Fernández, Martín Montiel-Pérez,
Rafael Bautista, Paola Bustos, Haydée Rojas-Cabrera,
Mario Fernández-Zertuche and Oscar García-Barradas

Tetrahedron: Asymmetry 18 (2007) 2427



C₁₅H₂₁NO₂

(*S*)-(*E*)-*N*-(3-*iso*-Propylacryloyl)-2-amino-2-phenylethanol

Ee >98%

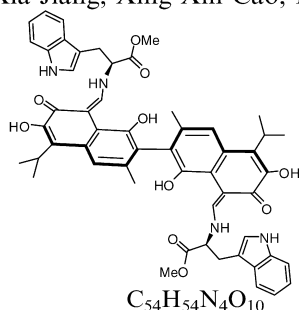
[α]_D = +75.8 (c 2.45, CHCl₃)

Source of chirality: chemical reaction

Absolute configuration: (*S*)-(*E*)

Hai-Xia Jiang, Xing-Xin Cao, Hao Huang* and Biao Jiang*

Tetrahedron: Asymmetry 18 (2007) 2437



C₅₄H₅₄N₄O₁₀

(*Rg,S*)-Gossypol-bis-(*L*-tryptophan methyl ester) schiff's base

De = 95% (by NMR)

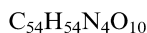
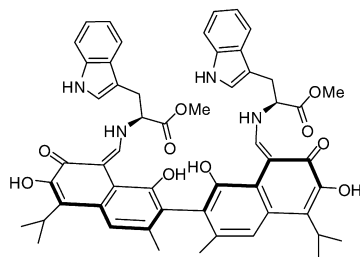
[α]_D^{19.7} = -1091 (c 0.255, CHCl₃)

Source of chirality: synthesis

Absolute configuration: (*Rg,S*)

Hai-Xia Jiang, Xing-Xin Cao, Hao Huang* and Biao Jiang*

Tetrahedron: Asymmetry 18 (2007) 2437



(*Sg,S*)-Gossypol-bis-(L-tryptophan methyl ester) schiff's base

De >99% (by NMR)

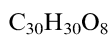
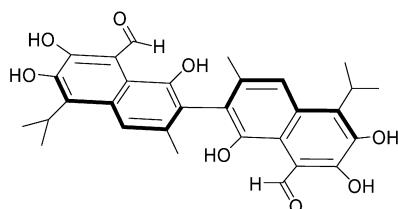
$[\alpha]_D^{26} = +288$ (*c* 0.55, CH₃OH)

Source of chirality: synthesis

Absolute configuration: (*Sg,S*)

Hai-Xia Jiang, Xing-Xin Cao, Hao Huang* and Biao Jiang*

Tetrahedron: Asymmetry 18 (2007) 2437



(*R*)-(-)-Gossypol

Ee = 94.7%

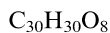
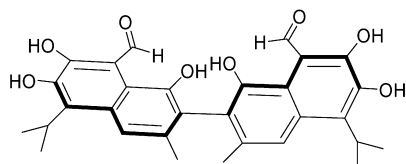
$[\alpha]_D^{24.7} = -344.98$ (*c* 0.1, CH₃OH)

Source of chirality: chemical resolution via L-amino acid ester

Absolute configuration: (*R*)

Hai-Xia Jiang, Xing-Xin Cao, Hao Huang* and Biao Jiang*

Tetrahedron: Asymmetry 18 (2007) 2437



(*S*)-(+)-Gossypol

Ee = 95.7%

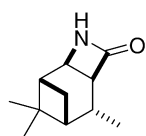
$[\alpha]_D^{26} = +364.9$ (*c* 0.22, CH₃OH)

Source of chirality: chemical resolution via L-amino acid ester

Absolute configuration: (*S*)

Zsolt Szakonyi, Tamás A. Martinek, Reijo Sillanpää and Ferenc Fülöp*

Tetrahedron: Asymmetry 18 (2007) 2442



(1*R*,2*R*,5*S*,6*R*,7*R*)-6,8,8-Trimethyl-3-azatricyclo[5.1.1.0^{2,5}]nonan-4-one

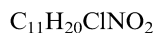
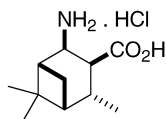
$[\alpha]_D^{20} = -85.0$ (*c* 0.25, EtOH)

Source of chirality: (1*R*,2*R*,3*R*,5*S*)-(-)-iso-pinocampheol

Absolute configuration: 1*R*,2*R*,5*S*,6*R*,7*R*

Zsolt Szakonyi, Tamás A. Martinek, Reijo Sillanpää and Ferenc Fülöp*

Tetrahedron: Asymmetry 18 (2007) 2442



(1*R*,2*R*,3*S*,4*R*,5*R*)-2-Amino-4,6,6-trimethylbicyclo[3.1.1]heptane-3-carboxylic acid hydrochloride

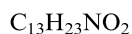
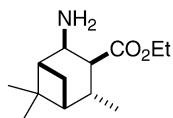
$$[\alpha]_D^{20} = -23.0 \text{ (} c \text{ 0.25, EtOH)}$$

Source of chirality: (1*R*,2*R*,3*R*,5*S*)-(–)-iso-pinocampheol

Absolute configuration: 1*R*,2*R*,3*S*,4*R*,5*R*

Zsolt Szakonyi, Tamás A. Martinek, Reijo Sillanpää and Ferenc Fülöp*

Tetrahedron: Asymmetry 18 (2007) 2442



Ethyl (1*R*,2*R*,3*S*,4*R*,5*R*)-2-amino-4,6,6-trimethylbicyclo[3.1.1]heptane-3-carboxylate

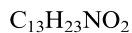
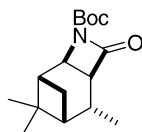
$$[\alpha]_D^{20} = -30 \text{ (} c \text{ 0.25, EtOH)}$$

Source of chirality: (1*R*,2*R*,3*R*,5*S*)-(–)-iso-pinocampheol

Absolute configuration: 1*R*,2*R*,3*S*,4*R*,5*R*

Zsolt Szakonyi, Tamás A. Martinek, Reijo Sillanpää and Ferenc Fülöp*

Tetrahedron: Asymmetry 18 (2007) 2442



(1*R*,2*R*,5*S*,6*R*,7*R*)-*N*-*tert*-Butoxycarbonyl-6,8,8-trimethyl-3-azatricyclo [5.1.1.0²⁻⁵]nonan-4-one

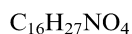
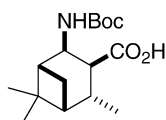
$$[\alpha]_D^{20} = -83 \text{ (} c \text{ 0.25, EtOH)}$$

Source of chirality: (1*R*,2*R*,3*R*,5*S*)-(–)-iso-pinocampheol

Absolute configuration: 1*R*,2*R*,5*S*,6*R*,7*R*

Zsolt Szakonyi, Tamás A. Martinek, Reijo Sillanpää and Ferenc Fülöp*

Tetrahedron: Asymmetry 18 (2007) 2442



(1*R*,2*R*,3*S*,4*R*,5*R*)-2-*tert*-Butoxycarbonylamino-4,6,6-trimethylbicyclo[3.1.1]heptane-3-carboxylic acid

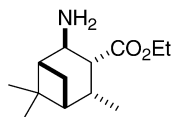
$$[\alpha]_D^{20} = -7 \text{ (} c \text{ 0.25, EtOH)}$$

Source of chirality: (1*R*,2*R*,3*R*,5*S*)-(–)-iso-pinocampheol

Absolute configuration: 1*R*,2*R*,3*S*,4*R*,5*R*

Zsolt Szakonyi, Tamás A. Martinek, Reijo Sillanpää and Ferenc Fülöp*

Tetrahedron: Asymmetry 18 (2007) 2442



$C_{13}H_{23}NO_2$

Ethyl (1*R*,2*R*,3*R*,4*R*,5*R*)-2-amino-4,6,6-trimethylbicyclo[3.1.1]heptane-3-carboxylate

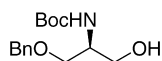
$$[\alpha]_D^{20} = -17 \text{ (} c \text{ 0.25, EtOH)}$$

Source of chirality: (1*R*,2*R*,3*R*,5*S*)-(-)-isopinocampheol

Absolute configuration: 1*R*,2*R*,3*R*,4*R*,5*R*

Jongho Jeon, Jong Hyup Lee, Jung-Won Kim and Young Gyu Kim*

Tetrahedron: Asymmetry 18 (2007) 2448



$C_{15}H_{23}NO_4$

(2*S*)-3-Benzyloxy-2-(*tert*-butoxycarbonylamino)propan-1-ol

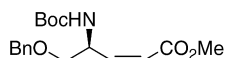
$$[\alpha]_D^{23} = -7.6 \text{ (} c \text{ 0.92, CHCl}_3)$$

Source of chirality: D-serine

Absolute configuration: (2*S*)

Jongho Jeon, Jong Hyup Lee, Jung-Won Kim and Young Gyu Kim*

Tetrahedron: Asymmetry 18 (2007) 2448



$C_{18}H_{25}NO_5$

Methyl (2*Z*,4*S*)-5-benzyloxy-4-(*tert*-butoxycarbonylamino)pent-2-enoate

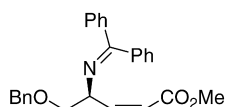
$$[\alpha]_D^{23} = -4.2 \text{ (} c \text{ 1.43, CHCl}_3)$$

Source of chirality: D-serine, asymmetric synthesis

Absolute configuration: (2*Z*,4*S*)

Jongho Jeon, Jong Hyup Lee, Jung-Won Kim and Young Gyu Kim*

Tetrahedron: Asymmetry 18 (2007) 2448



$C_{26}H_{25}NO_3$

Methyl (2*Z*,4*S*)-5-benzyloxy-4-(diphenylmethylenemino)pent-2-enoate

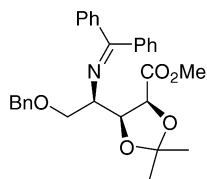
$$[\alpha]_D^{23} = -72.8 \text{ (} c \text{ 1.1, CHCl}_3)$$

Source of chirality: D-serine, asymmetric synthesis

Absolute configuration: (2*Z*,4*S*)

Jongho Jeon, Jong Hyup Lee, Jung-Won Kim and Young Gyu Kim*

Tetrahedron: Asymmetry 18 (2007) 2448



$C_{29}H_{31}NO_5$

Methyl (2*S*,3*S*,4*R*)-5-benzyloxy-4-(diphenylmethyleneamino)-2,3-isopropylidenedioxypentanoate

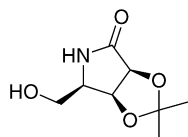
$[\alpha]_D^{24} = -28.0$ (*c* 0.72, $CHCl_3$)

Source of chirality: D-serine, asymmetric synthesis

Absolute configuration: (2*S*,3*S*,4*R*)

Jongho Jeon, Jong Hyup Lee, Jung-Won Kim and Young Gyu Kim*

Tetrahedron: Asymmetry 18 (2007) 2448



$C_8H_{13}NO_4$

(3*S*,4*S*,5*R*)-5-Hydroxymethyl-3,4-isopropylidenedioxypyrrolidin-2-one

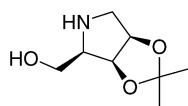
$[\alpha]_D^{23} = +22.9$ (*c* 0.71, MeOH)

Source of chirality: D-serine, asymmetric synthesis

Absolute configuration: (3*S*,4*S*,5*R*)

Jongho Jeon, Jong Hyup Lee, Jung-Won Kim and Young Gyu Kim*

Tetrahedron: Asymmetry 18 (2007) 2448



$C_8H_{15}NO_3$

(2*R*,3*S*,4*R*)-2-Hydroxymethyl-3,4-isopropylidenedioxypyrrolidine

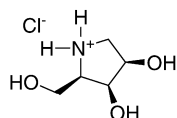
$[\alpha]_D^{25} = -48.2$ (*c* 0.12, $CHCl_3$)

Source of chirality: D-serine, asymmetric synthesis

Absolute configuration: (2*R*,3*S*,4*R*)

Jongho Jeon, Jong Hyup Lee, Jung-Won Kim and Young Gyu Kim*

Tetrahedron: Asymmetry 18 (2007) 2448



$C_5H_{12}ClNO_3$

(2*R*,3*S*,4*R*)-3,4-Dihydroxy-2-hydroxymethylpyrrolidine hydrochloride

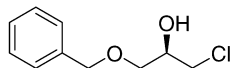
$[\alpha]_D^{27} = +15.4$ (*c* 0.56, H_2O)

Source of chirality: D-serine, asymmetric synthesis

Absolute configuration: (2*R*,3*S*,4*R*)

Fenglai Sun, Gang Xu, Jianping Wu and Lirong Yang*

Tetrahedron: Asymmetry 18 (2007) 2454



$C_{10}H_{13}ClO_2$

(*R*)-1-Chloro-3-benzyloxy-2-propanol

Ee = 97.3% [by chiral HPLC]

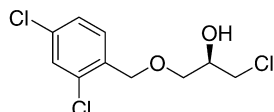
$[\alpha]_D^{20} = +1.5$ (*c* 3.3, $CHCl_3$)

Source of chirality: enzymatic resolution

Absolute configuration: (*2R*)

Fenglai Sun, Gang Xu, Jianping Wu and Lirong Yang*

Tetrahedron: Asymmetry 18 (2007) 2454



$C_{10}H_{11}Cl_3O_2$

(*R*)-1-Chloro-3-(2,4-dichlorobenzyloxy)-2-propanol

Ee = 96.8% [by chiral HPLC]

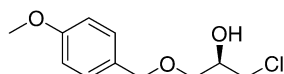
$[\alpha]_D^{20} = +2.2$ (*c* 3.4, $CHCl_3$)

Source of chirality: enzymatic resolution

Absolute configuration: (*2R*)

Fenglai Sun, Gang Xu, Jianping Wu and Lirong Yang*

Tetrahedron: Asymmetry 18 (2007) 2454



$C_{10}H_{15}ClO_3$

(*R*)-1-Chloro-3-(4-methoxybenzyloxy)-2-propanol

Ee = 98.2% [by chiral HPLC]

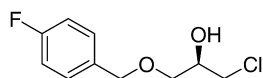
$[\alpha]_D^{20} = +1.9$ (*c* 3.9, $CHCl_3$)

Source of chirality: enzymatic resolution

Absolute configuration: (*2R*)

Fenglai Sun, Gang Xu, Jianping Wu and Lirong Yang*

Tetrahedron: Asymmetry 18 (2007) 2454



$C_{10}H_{12}ClFO_2$

(*R*)-1-Chloro-3-(4-fluorobenzyloxy)-2-propanol

Ee = 98.1% [by chiral HPLC]

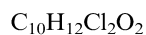
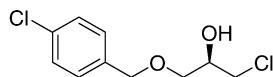
$[\alpha]_D^{20} = +2.4$ (*c* 1.8, $CHCl_3$)

Source of chirality: enzymatic resolution

Absolute configuration: (*2R*)

Fenglai Sun, Gang Xu, Jianping Wu and Lirong Yang*

Tetrahedron: Asymmetry 18 (2007) 2454



(*R*)-1-Chloro-3-(4-chlorobenzoyloxy)-2-propanol

Ee = 96.7% [by chiral HPLC]

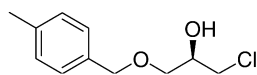
$[\alpha]_D^{20} = +2.2$ (*c* 3.2, $CHCl_3$)

Source of chirality: enzymatic resolution

Absolute configuration: (*2R*)

Fenglai Sun, Gang Xu, Jianping Wu and Lirong Yang*

Tetrahedron: Asymmetry 18 (2007) 2454



(*R*)-1-Chloro-3-(4-methylbenzoyloxy)-2-propanol

Ee = 98.0% [by chiral HPLC]

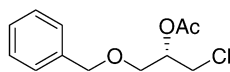
$[\alpha]_D^{20} = +2.0$ (*c* 3.5, $CHCl_3$)

Source of chirality: enzymatic resolution

Absolute configuration: (*2R*)

Fenglai Sun, Gang Xu, Jianping Wu and Lirong Yang*

Tetrahedron: Asymmetry 18 (2007) 2454



(*S*)-2-Acetoxy-1-chloro-3-benzoyloxy-2-propanol

Ee = 88.5% [by chiral HPLC]

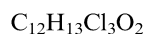
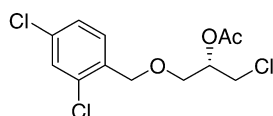
$[\alpha]_D^{20} = +7.3$ (*c* 3.3, $CHCl_3$)

Source of chirality: enzymatic resolution

Absolute configuration: (*2S*)

Fenglai Sun, Gang Xu, Jianping Wu and Lirong Yang*

Tetrahedron: Asymmetry 18 (2007) 2454



(*S*)-2-Acetoxy-1-chloro-3-(2,4-dichlorobenzoyloxy)-2-propanol

Ee = 84.5% [by chiral HPLC]

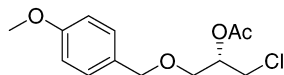
$[\alpha]_D^{20} = +6.8$ (*c* 3.4, $CHCl_3$)

Source of chirality: enzymatic resolution

Absolute configuration: (*2S*)

Fenglai Sun, Gang Xu, Jianping Wu and Lirong Yang*

Tetrahedron: Asymmetry 18 (2007) 2454



$C_{13}H_{17}ClO_4$

(*S*)-2-Acetoxy-1-chloro-3-(4-methoxybenzyloxy)-2-propanol

Ee = 90.1% [by chiral HPLC]

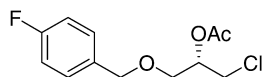
$[\alpha]_D^{20} = +8.8$ (*c* 3.5, $CHCl_3$)

Source of chirality: enzymatic resolution

Absolute configuration: (*2S*)

Fenglai Sun, Gang Xu, Jianping Wu and Lirong Yang*

Tetrahedron: Asymmetry 18 (2007) 2454



$C_{12}H_{14}ClFO_5$

(*S*)-2-Acetoxy-1-chloro-3-(4-fluorobenzyloxy)-2-propanol

Ee = 91.5% [by chiral HPLC]

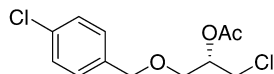
$[\alpha]_D^{20} = +8.4$ (*c* 3.7, $CHCl_3$)

Source of chirality: enzymatic resolution

Absolute configuration: (*2S*)

Fenglai Sun, Gang Xu, Jianping Wu and Lirong Yang*

Tetrahedron: Asymmetry 18 (2007) 2454



$C_{12}H_{14}Cl_2O_2$

(*S*)-2-Acetoxy-1-chloro-3-(4-chlorobenzyloxy)-2-propanol

Ee = 96.0% [by chiral HPLC]

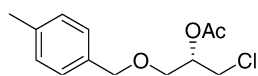
$[\alpha]_D^{20} = +8.9$ (*c* 3.1, $CHCl_3$)

Source of chirality: enzymatic resolution

Absolute configuration: (*2S*)

Fenglai Sun, Gang Xu, Jianping Wu and Lirong Yang*

Tetrahedron: Asymmetry 18 (2007) 2454



$C_{13}H_{17}ClO_5$

(*S*)-2-Acetoxy-1-chloro-3-(4-methylbenzyloxy)-2-propanol

Ee = 96.0% [by chiral HPLC]

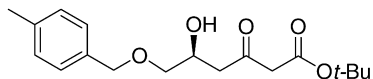
$[\alpha]_D^{20} = +8.7$ (*c* 2.2, $CHCl_3$)

Source of chirality: enzymatic resolution

Absolute configuration: (*2S*)

Fenglai Sun, Gang Xu, Jianping Wu and Lirong Yang*

Tetrahedron: Asymmetry 18 (2007) 2454



$C_{18}H_{26}O_5$

tert-Butyl (*S*)-6-(4-methoxybenzyloxy)-5-hydroxy-3-oxohexanoate

Ee = 98.0% [by chiral HPLC]

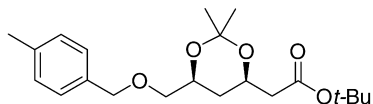
$[\alpha]_D^{20} = -13.0$ (*c* 2.5, $CHCl_3$)

Source of chirality: enzymatic resolution

Absolute configuration: (*S*)

Fenglai Sun, Gang Xu, Jianping Wu and Lirong Yang*

Tetrahedron: Asymmetry 18 (2007) 2454



$C_{21}H_{32}O_5$

tert-Butyl (*3R,5S*)-6-(4-methoxybenzyloxy)-3,5-*O*-isopropylidene-3,5-dihydroxyhexanoate

De = 98.0% [by GC]

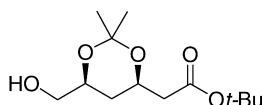
$[\alpha]_D^{20} = -6.5$ (*c* 2.0, $CHCl_3$)

Source of chirality: enzymatic resolution and chemical resolution

Absolute configuration: (*3R,5S*)

Fenglai Sun, Gang Xu, Jianping Wu and Lirong Yang*

Tetrahedron: Asymmetry 18 (2007) 2454



$C_{13}H_{24}O_5$

tert-Butyl (*3R,5S*)-6-hydroxy-3,5-*O*-isopropylidene-3,5-dihydroxyhexanoate

De = 98.0% [by GC]

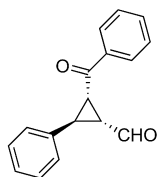
$[\alpha]_D^{20} = +9.9$ (*c* 2.0, $CHCl_3$)

Source of chirality: enzymatic resolution and chemical resolution

Absolute configuration: (*3R,5S*)

Yun-Hui Zhao, Gang Zhao* and Wei-Guo Cao*

Tetrahedron: Asymmetry 18 (2007) 2462



$C_{17}H_{14}O_2$

(*1R,2S,3R*)-2-Benzoyl-3-phenyl-cyclopropanecarbaldehyde

Ee = 98%

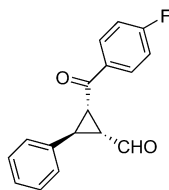
$[\alpha]_D^{25} = -167.7$ (*c* 0.50, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (*1R,2S,3R*)

Yun-Hui Zhao, Gang Zhao* and Wei-Guo Cao*

Tetrahedron: Asymmetry 18 (2007) 2462



$C_{17}H_{13}FO_2$

(1*R*,2*S*,3*R*)-2-(4-Fluorobenzoyl)-3-phenyl-cyclopropanecarbaldehyde

Ee = 97%

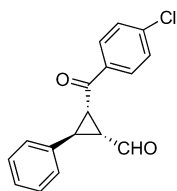
$[\alpha]_D^{25} = -137.1$ (c 0.34, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (1*R*,2*S*,3*R*)

Yun-Hui Zhao, Gang Zhao* and Wei-Guo Cao*

Tetrahedron: Asymmetry 18 (2007) 2462



$C_{17}H_{13}ClO_2$

(1*R*,2*S*,3*R*)-2-(4-Chlorobenzoyl)-3-phenyl-cyclopropanecarbaldehyde

Ee = 96%

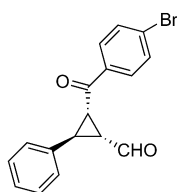
$[\alpha]_D^{26} = -86.4$ (c 0.48, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (1*R*,2*S*,3*R*)

Yun-Hui Zhao, Gang Zhao* and Wei-Guo Cao*

Tetrahedron: Asymmetry 18 (2007) 2462



$C_{17}H_{13}BrO_2$

(1*R*,2*S*,3*R*)-2-(4-Bromobenzoyl)-3-phenyl-cyclopropanecarbaldehyde

Ee = 96%

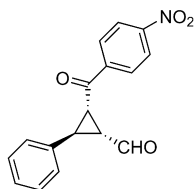
$[\alpha]_D^{26} = -80.6$ (c 1.00, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (1*R*,2*S*,3*R*)

Yun-Hui Zhao, Gang Zhao* and Wei-Guo Cao*

Tetrahedron: Asymmetry 18 (2007) 2462



$C_{17}H_{13}NO_4$

(1*R*,2*S*,3*R*)-2-(4-Nitrobenzoyl)-3-phenyl-cyclopropanecarbaldehyde

Ee = 98%

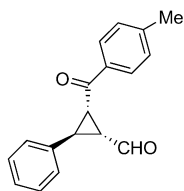
$[\alpha]_D^{26} = -119.1$ (c 0.43, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (1*R*,2*S*,3*R*)

Yun-Hui Zhao, Gang Zhao* and Wei-Guo Cao*

Tetrahedron: Asymmetry 18 (2007) 2462



$C_{18}H_{16}O_2$

(1*R*,2*S*,3*R*)-2-(4-Methylbenzoyl)-3-phenyl-cyclopropanecarbaldehyde

Ee = 98%

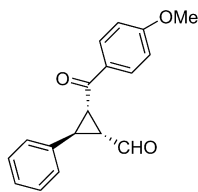
$[\alpha]_D^{26} = -81.4$ (*c* 0.34, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (1*R*,2*S*,3*R*)

Yun-Hui Zhao, Gang Zhao* and Wei-Guo Cao*

Tetrahedron: Asymmetry 18 (2007) 2462



$C_{18}H_{16}O_3$

(1*R*,2*S*,3*R*)-2-(4-Methoxybenzoyl)-3-phenyl-cyclopropanecarbaldehyde

Ee = 98%

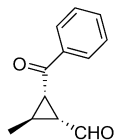
$[\alpha]_D^{25} = -174.6$ (*c* 0.27, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (1*R*,2*S*,3*R*)

Yun-Hui Zhao, Gang Zhao* and Wei-Guo Cao*

Tetrahedron: Asymmetry 18 (2007) 2462



$C_{12}H_{12}O_2$

(1*R*,2*S*,3*R*)-2-Benzoyl-3-methyl-cyclopropanecarbaldehyde

Ee = 78%

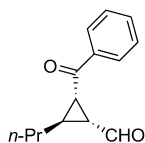
$[\alpha]_D^{25} = -6.1$ (*c* 0.76, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (1*R*,2*S*,3*R*)

Yun-Hui Zhao, Gang Zhao* and Wei-Guo Cao*

Tetrahedron: Asymmetry 18 (2007) 2462



$C_{14}H_{16}O_4$

(1*R*,2*S*,3*R*)-2-Benzoyl-3-propyl-cyclopropanecarbaldehyde

Ee = 96%

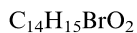
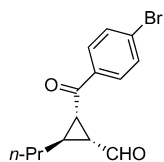
$[\alpha]_D^{25} = -16.4$ (*c* 1.38, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (1*R*,2*S*,3*R*)

Yun-Hui Zhao, Gang Zhao* and Wei-Guo Cao*

Tetrahedron: Asymmetry 18 (2007) 2462



(1*R*,2*S*,3*R*)-2-(4-Bromobenzoyl)-3-propyl-cyclopropanecarbaldehyde

Ee = 95%

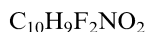
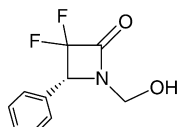
$[\alpha]_D^{26} = -38.6$ (*c* 0.27, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (1*R*,2*S*,3*R*)

Xiang-Guo Li and Liisa T. Kanerva*

Tetrahedron: Asymmetry 18 (2007) 2468



(*R*)-1-Hydroxymethyl-3,3-difluoro-4-phenylazetidin-2-one

Ee = 99%

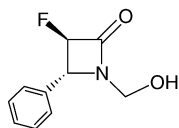
$[\alpha]_D^{22} = -139.4$ (*c* 1.05, $CHCl_3$)

Source of chirality: lipase PS-D-catalyzed resolution

Absolute configuration: (*R*)

Xiang-Guo Li and Liisa T. Kanerva*

Tetrahedron: Asymmetry 18 (2007) 2468



(3*R*,4*R*)-1-Hydroxymethyl-3-fluoro-4-phenylazetidin-2-one

Ee = 99%

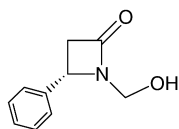
$[\alpha]_D^{22} = -64.2$ (*c* 1.10, $CHCl_3$)

Source of chirality: lipase PS-catalyzed resolution

Absolute configuration: (3*R*,4*R*)

Xiang-Guo Li and Liisa T. Kanerva*

Tetrahedron: Asymmetry 18 (2007) 2468



(*S*)-1-Hydroxymethyl-4-phenylazetidin-2-one

Ee = 99%

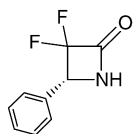
$[\alpha]_D^{22} = -171.2$ (*c* 1.00, EtOH)

Source of chirality: lipase PS-D-catalyzed resolution

Absolute configuration: (*S*)

Xiang-Guo Li and Liisa T. Kanerva*

Tetrahedron: Asymmetry 18 (2007) 2468



C₉H₇F₂NO

(*R*)-3,3-Difluoro-4-phenylazetidin-2-one

Ee = 99%

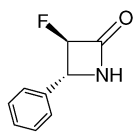
$[\alpha]_D^{22} = -76.1$ (*c* 1.00, CHCl₃)

Source of chirality: derivative of a product of lipase
PS-D-catalyzed resolution

Absolute configuration: (*R*)

Xiang-Guo Li and Liisa T. Kanerva*

Tetrahedron: Asymmetry 18 (2007) 2468



C₉H₈FNO

(3*R*,4*R*)-3-Fluoro-4-phenylazetidin-2-one

Ee = 99%

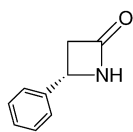
$[\alpha]_D^{22} = -19.3$ (*c* 1.00, CHCl₃)

Source of chirality: derivative of a product of lipase
PS-catalyzed resolution

Absolute configuration: (3*R*,4*R*)

Xiang-Guo Li and Liisa T. Kanerva*

Tetrahedron: Asymmetry 18 (2007) 2468



C₉H₉NO

(*S*)-4-Phenylazetidin-2-one

Ee = 99%

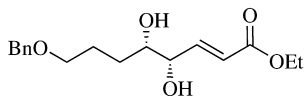
$[\alpha]_D^{22} = -140.5$ (*c* 0.50, EtOH)

Source of chirality: derivative of a product of lipase
PS-catalyzed resolution

Absolute configuration: (*S*)

S. Chandrasekhar,* K. Vijeender, G. Chandrashekar and Ch. Raji Reddy

Tetrahedron: Asymmetry 18 (2007) 2473



C₁₇H₂₄O₅

(4*S*,5*S*,2*E*)-Ethyl-8-(benzyloxy)-4,5-dihydroxyoct-2-enoate

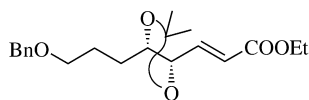
$[\alpha]_D^{25} = -12.2$ (*c* 5.7, CHCl₃)

Source of chirality: ADmix- α

Absolute configuration: (4*S*,5*S*,2*E*)

S. Chandrasekhar,* K. Vijeender, G. Chandrashekar and Ch. Raji Reddy

Tetrahedron: Asymmetry 18 (2007) 2473



C₂₀H₂₈O₅

(*E*)-Ethyl 3-((4*S*,5*S*)-5-(3-(benzyloxy)propyl)-2,2-dimethyl-1,3-dioxolan-4-yl)acrylate

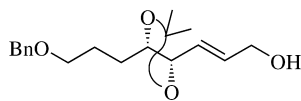
$[\alpha]_D^{25} = -14.5$ (*c* 4.6, CHCl₃)

Source of chirality: ADmix- α

Absolute configuration: (4*S*,5*S*,*E*)

S. Chandrasekhar,* K. Vijeender, G. Chandrashekar and Ch. Raji Reddy

Tetrahedron: Asymmetry 18 (2007) 2473



C₁₈H₂₆O₄

(*E*)-3-((4*S*,5*S*)-5-(3-(Benzyloxy)propyl)-2,2-dimethyl-1,3-dioxolan-4-yl)prop-2-en-1-ol

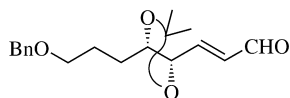
$[\alpha]_D^{25} = -6.3$ (*c* 3.15, CHCl₃)

Source of chirality: ADmix- α

Absolute configuration: (4*S*,5*S*,*E*)

S. Chandrasekhar,* K. Vijeender, G. Chandrashekar and Ch. Raji Reddy

Tetrahedron: Asymmetry 18 (2007) 2473



C₁₈H₂₄O₄

(*E*)-3-((4*S*,5*S*)-5-(3-(Benzyloxy)propyl)-2,2-dimethyl-1,3-dioxolan-4-yl)acrylaldehyde

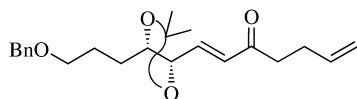
$[\alpha]_D^{25} = -13.1$ (*c* 0.7, CHCl₃)

Source of chirality: ADmix- α

Absolute configuration: (4*S*,5*S*,*E*)

S. Chandrasekhar,* K. Vijeender, G. Chandrashekar and Ch. Raji Reddy

Tetrahedron: Asymmetry 18 (2007) 2473



C₂₂H₃₀O₄

(*E*)-1-((4*S*,5*S*)-5-(3-(Benzyloxy)-propyl)-2,2-dimethyl-1,3-dioxolan-4-yl)hepta-1,6-diene-3-one

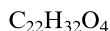
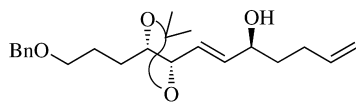
$[\alpha]_D^{25} = -11.9$ (*c* 5.1, CHCl₃)

Source of chirality: ADmix- α

Absolute configuration: (4*S*,5*S*,*E*)

S. Chandrasekhar,* K. Vijeender, G. Chandrashekar and Ch. Raji Reddy

Tetrahedron: Asymmetry 18 (2007) 2473



(*S,E*)-1-((4*S*,5*S*)-5-(3-(Benzyloxy)propyl)-2,2-dimethyl-1,3-dioxolan-4-yl)hepta-1,6-dien-3-ol

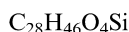
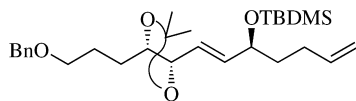
$$[\alpha]_D^{25} = -46.95 (c 1.45, CHCl_3)$$

Source of chirality: ADmix- α , CBS-reduction

Absolute configuration: (4*S*,5*S*,*S,E*)

S. Chandrasekhar,* K. Vijeender, G. Chandrashekar and Ch. Raji Reddy

Tetrahedron: Asymmetry 18 (2007) 2473



((*S,E*)-1-((4*S*,5*S*)-5-(3-(Benzyloxy)propyl)-2,2-dimethyl-1,3-dioxolan-4-yl)hepta-1,6-dien-3-yloxy)(*tert*-butyl)dimethylsilane

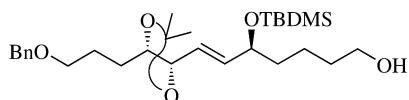
$$[\alpha]_D^{25} = -6.5 (c 1.3, CHCl_3)$$

Source of chirality: ADmix- α , CBS-reduction

Absolute configuration: (4*S*,5*S*,*S,E*)

S. Chandrasekhar,* K. Vijeender, G. Chandrashekar and Ch. Raji Reddy

Tetrahedron: Asymmetry 18 (2007) 2473



(*S,E*)-7-((4*S*,5*S*)-5-(3-(Benzyloxy)propyl)-2,2-dimethyl-1,3-dioxolan-4-yl)-5-(*tert*-butyl dimethyl silyloxy)hept-6-en-1-ol

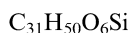
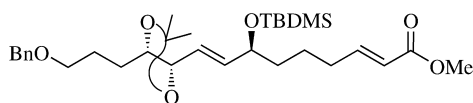
$$[\alpha]_D^{25} = -79.7 (c 0.9 CHCl_3)$$

Source of chirality: ADmix- α , CBS-reduction

Absolute configuration: (4*S*,5*S*,*S,E*)

S. Chandrasekhar,* K. Vijeender, G. Chandrashekar and Ch. Raji Reddy

Tetrahedron: Asymmetry 18 (2007) 2473



(*S,2E,8E*)-Methyl 9-((4*S*,5*S*)-5-(3-(benzyloxy)propyl)-2,2-dimethyl-1,3-dioxolan-4-yl)-7-(*tert*-butyl dimethyl silyloxy)nona-2,8-dienoate

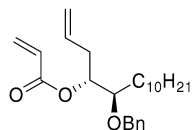
$$[\alpha]_D^{25} = -29.6 (c 2.85, CHCl_3)$$

Source of chirality: ADmix- α , CBS-reduction

Absolute configuration: (*S,2E,8E*) (4*S*,5*S*)

Kavirayani R. Prasad* and Pazhamalai Anbarasan

Tetrahedron: Asymmetry 18 (2007) 2479

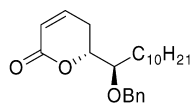


$C_{25}H_{38}O_3$
(4*R*,5*R*)-4-Acryloxy-5-benzyloxypentadec-1-ene

$[\alpha]_D = +13.0$ (*c* 1.0, $CHCl_3$)
Source of chirality: L-(+)-tartaric acid
Absolute configuration: (4*R*,5*R*)

Kavirayani R. Prasad* and Pazhamalai Anbarasan

Tetrahedron: Asymmetry 18 (2007) 2479

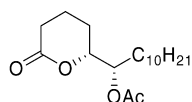


$C_{23}H_{34}O_3$
(*R*)-6-((*R*)-1-(Benzyloxy)undecyl)-5,6-dihydropyran-2-one

$[\alpha]_D = +61.9$ (*c* 2.1, $CHCl_3$)
Source of chirality: L-(+)-tartaric acid
Absolute configuration: (5*R*,6*R*)

Kavirayani R. Prasad* and Pazhamalai Anbarasan

Tetrahedron: Asymmetry 18 (2007) 2479

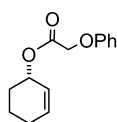


$C_{18}H_{32}O_4$
(-)-(5*R*,6*S*)-6-Acetoxy-5-hexadecanolide

$[\alpha]_D = -37.5$ (*c* 0.4, $CHCl_3$)
Source of chirality: L-(+)-tartaric acid
Absolute configuration: (5*R*,6*S*)

Han Shi-Hui, Takuya Hirakawa, Takaaki Fukuba, Shuichi Hayase,
Motoi Kawatsura and Toshiyuki Itoh*

Tetrahedron: Asymmetry 18 (2007) 2484

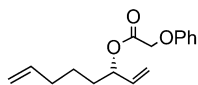


$C_{14}H_{16}O_3$
(*S*)-Cyclohex-2-enyl 2-phenoxyacetate

Ee = 99.6%
 $[\alpha]_D^{25} = -56.9$ (*c* 0.9, $CHCl_3$)
Absolute configuration: (*S*)

Han Shi-Hui, Takuya Hirakawa, Takaaki Fukuba, Shuichi Hayase,
Motoi Kawatsura and Toshiyuki Itoh*

Tetrahedron: Asymmetry 18 (2007) 2484



$C_{16}H_{20}O_3$

(*S*)-Octa-1,7-dien-3-yl 2-phenoxyacetate

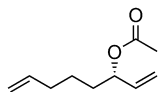
Ee = 99.6%

$[\alpha]_D^{25} = -11.9$ (*c* 1.2, $CHCl_3$)

Absolute configuration: (*S*)

Han Shi-Hui, Takuya Hirakawa, Takaaki Fukuba, Shuichi Hayase,
Motoi Kawatsura and Toshiyuki Itoh*

Tetrahedron: Asymmetry 18 (2007) 2484



$C_{10}H_{16}O_2$

(*S*)-Octa-1,7-dien-3-yl acetate

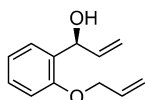
Ee = 97%

$[\alpha]_D^{23} = -12.0$ (*c* 1.12, $CHCl_3$)

Absolute configuration: (*S*)

Han Shi-Hui, Takuya Hirakawa, Takaaki Fukuba, Shuichi Hayase,
Motoi Kawatsura and Toshiyuki Itoh*

Tetrahedron: Asymmetry 18 (2007) 2484



$C_{12}H_{14}O_2$

(*S*)-1-(2-(Allyloxy)phenyl)prop-2-en-1-ol

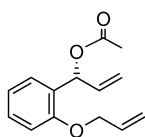
Ee >99%

$[\alpha]_D^{22} = -18.6$ (*c* 1.0, $CHCl_3$)

Absolute configuration: (*S*)

Han Shi-Hui, Takuya Hirakawa, Takaaki Fukuba, Shuichi Hayase,
Motoi Kawatsura and Toshiyuki Itoh*

Tetrahedron: Asymmetry 18 (2007) 2484



$C_{14}H_{16}O_3$

(*R*)-1-(2-(Allyloxy)phenyl)allyl acetate

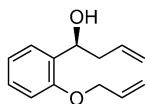
Ee >99%

$[\alpha]_D^{22} = +41.4$ (*c* 1.0, $CHCl_3$)

Absolute configuration: (*R*)

Han Shi-Hui, Takuya Hirakawa, Takaaki Fukuba, Shuichi Hayase,
Motoi Kawatsura and Toshiyuki Itoh*

Tetrahedron: Asymmetry 18 (2007) 2484



$C_{13}H_{16}O_2$

(*S*)-1-(2-(Allyloxy)phenyl)but-3-en-1-ol

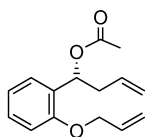
Ee = 32%

$[\alpha]_D^{25} = -4.5$ (c 1.0, $CHCl_3$)

Absolute configuration: (*S*)

Han Shi-Hui, Takuya Hirakawa, Takaaki Fukuba, Shuichi Hayase,
Motoi Kawatsura and Toshiyuki Itoh*

Tetrahedron: Asymmetry 18 (2007) 2484



$C_{15}H_{18}O_3$

(*R*)-1-(2-(Allyloxy)phenyl)but-3-enyl acetate

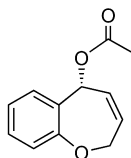
Ee >99%

$[\alpha]_D^{22} = +53.2$ (c 1.0, $CHCl_3$)

Absolute configuration: (*R*)

Han Shi-Hui, Takuya Hirakawa, Takaaki Fukuba, Shuichi Hayase,
Motoi Kawatsura and Toshiyuki Itoh*

Tetrahedron: Asymmetry 18 (2007) 2484



$C_{12}H_{12}O_3$

(*R,Z*)-2,5-Dihydrobenzo[*b*]oxepin-5-yl acetate

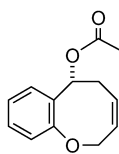
Ee >99%

$[\alpha]_D^{25} = +3.4$ (c 1.0, $CHCl_3$)

Absolute configuration: (*R*)

Han Shi-Hui, Takuya Hirakawa, Takaaki Fukuba, Shuichi Hayase,
Motoi Kawatsura and Toshiyuki Itoh*

Tetrahedron: Asymmetry 18 (2007) 2484



$C_{13}H_{14}O_3$

(*R,Z*)-5,6-Dihydro-2*H*-benzo[*b*]oxocin-6-yl acetate

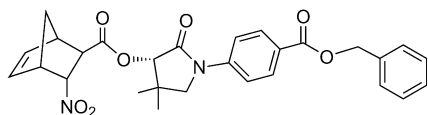
Ee >99%

$[\alpha]_D^{25} = -7.5$ (c 1.0, $CHCl_3$)

Absolute configuration: (*R*)

Monique Calmès,* Françoise Escale, Claude Didierjean,
Guillaume Cazals and Jean Martinez

Tetrahedron: Asymmetry 18 (2007) 2491



$C_{28}H_{28}N_2O_7$

[*N*-(4-Benzyloxycarbonylphenyl)-4,4-dimethyl-2-oxopyrrolidin-3-yl] 3-nitrobicyclo[2.2.1]hept-5-ene-2-carboxylate

De = 99%

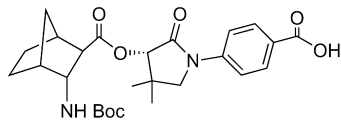
$[\alpha]_D = -102$ (*c* 0.9, CH_2Cl_2)

Source of chirality: (*S*)-benzyl-4-(3-hydroxy-4,4-dimethyl-2-oxopyrrolidin-1-yl)benzoate

Absolute configuration: (1*R*,2*R*,3*R*,4*S*,3'*S*)

Monique Calmès,* Françoise Escale, Claude Didierjean,
Guillaume Cazals and Jean Martinez

Tetrahedron: Asymmetry 18 (2007) 2491



$C_{26}H_{35}N_2O_7$

[*N*-(4-Carboxyphenyl)-4,4-dimethyl-2-oxopyrrolidin-3-yl] 3-*tert*-butoxycarbonylaminobicyclo[2.2.1]heptane-2-carboxylate

De = 99%

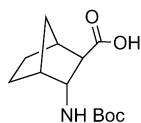
$[\alpha]_D = -14$ (*c* 1.5, CH_2Cl_2)

Source of chirality: (*S*)-benzyl-4-(3-hydroxy-4,4-dimethyl-2-oxopyrrolidin-1-yl)benzoate

Absolute configuration: (1*S*,2*R*,3*R*,4*R*,3'*S*)

Monique Calmès,* Françoise Escale, Claude Didierjean,
Guillaume Cazals and Jean Martinez

Tetrahedron: Asymmetry 18 (2007) 2491



$C_{13}H_{22}NO_4$

3-*tert*-Butoxycarbonylaminobicyclo[2.2.1]heptane-2-carboxylic acid

De = 99%

$[\alpha]_D = -22$ (*c* 0.9, CH_2Cl_2)

Source of chirality: (*S*)-benzyl-4-(3-hydroxy-4,4-dimethyl-2-oxopyrrolidin-1-yl)benzoate

Absolute configuration: (1*S*,2*R*,3*R*,4*R*)