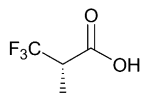


Stereochemistry abstracts

Petr Beier, Alexandra M. Z. Slawin and David O'Hagan*

Tetrahedron: Asymmetry 15 (2004) 2447



$C_4H_5O_2F_3$

(2*S*)-3,3,3-Trifluoro-2-methylpropanoic acid

$E_e > 98\%$

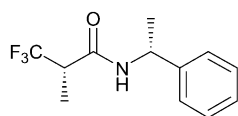
$[\alpha]_D^{19} = -0.8$ (*c* 1.23, MeOH)

Source of chirality: lipase resolution

Absolute configuration: (2*S*)

Petr Beier, Alexandra M. Z. Slawin and David O'Hagan*

Tetrahedron: Asymmetry 15 (2004) 2447



$C_{12}H_{14}OF_3N$

(2*S*)-3,3,3-Trifluoro-2-methyl-*N*-[(1*R*)-1-phenyl]-propanamide

$D_e = 100\%$

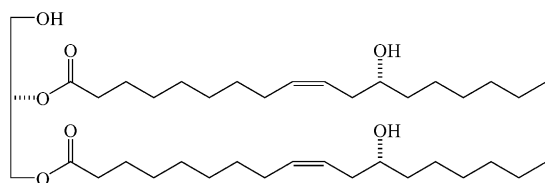
$[\alpha]_D^{25} = +88.7$ (*c* 0.345, $CHCl_3$)

Source of chirality: (1*R*)-1-phenylethylamine and (2*S*)-3,3,3-trifluoro-2-methylpropanoic acid

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

Iwao Hachiya, Akihisa Makino, Makoto Shimizu,* Masatsugu Akita and Takashi Hamaguchi

Tetrahedron: Asymmetry 15 (2004) 2451



$C_{39}H_{72}O_7$

2,3-Di[(12*R*)-12-benzoyloxy-*cis*-9-octadecenoyl]-*sn*-glycerol

$D_e = 93.0\%$ based on the d_e of its tribenzoate ester

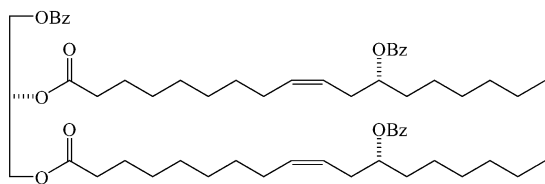
$[\alpha]_D^{24} = +4.45$ (*c* 0.245, $CHCl_3$)

Source of chirality: enzymatic hydrolysis

Absolute configuration: *R,R*

Iwao Hachiya, Akihisa Makino, Makoto Shimizu,* Masatsugu Akita and Takashi Hamaguchi

Tetrahedron: Asymmetry 15 (2004) 2451



$C_{60}H_{84}O_{10}$

1-Benzoyl-2,3-di[(12*R*)-12-benzoyloxy-*cis*-9-octadecenoyl]-*sn*-glycerol

$D_e = 93.0\%$ (chiral HPLC)

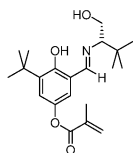
$[\alpha]_D^{23} = +11.3$ (*c* 0.336, $CHCl_3$)

Source of chirality: enzymatic hydrolysis

Absolute configuration: *R,R*

Alessandro Barbarini, Raimondo Maggi, Michele Muratori,
Giovanni Sartori* and Raffaella Sartorio

Tetrahedron: Asymmetry 15 (2004) 2467



$C_{21}H_{31}NO_4$

(*S*)-3-*tert*-Butyl-4-hydroxy-5-[(1-*tert*-butyl-2-hydroxy-ethylimino)-methyl]-phenyl methacrylate

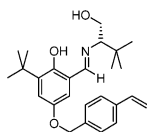
$[\alpha]_D^{20} = -4.1$ (*c* 1, EtOH)

Source of chirality: (*S*)-*tert*-leucinol

Absolute configuration: *S*

Alessandro Barbarini, Raimondo Maggi, Michele Muratori,
Giovanni Sartori* and Raffaella Sartorio

Tetrahedron: Asymmetry 15 (2004) 2467



$C_{26}H_{35}NO_3$

(*S*)-2-[*N*-3-*tert*-Butyl-5-(*p*-vinylbenzyloxy)salicyden]amino-3,3-dimethyl-1-butanol

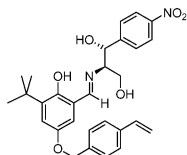
$[\alpha]_D^{20} = -6.5$ (*c* 1, EtOH)

Source of chirality: (*S*)-*tert*-leucinol

Absolute configuration: *S*

Alessandro Barbarini, Raimondo Maggi, Michele Muratori,
Giovanni Sartori* and Raffaella Sartorio

Tetrahedron: Asymmetry 15 (2004) 2467



$C_{29}H_{32}N_2O_6$

(1'*R*,2'*R*)-2-[*N*-3-*tert*-Butyl-5-(*p*-vinylbenzyloxy)salicyden]amino-1'-(*p*-nitrophenyl)-1',3'-propanediol

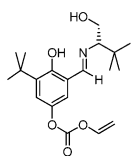
$[\alpha]_D^{20} = -107.5$ (*c* 1, EtOH)

Source of chirality: (1*R*,2*R*)-2-amino-1-(4-nitrophenyl)-1,3-propanediol

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

Alessandro Barbarini, Raimondo Maggi, Michele Muratori,
Giovanni Sartori* and Raffaella Sartorio

Tetrahedron: Asymmetry 15 (2004) 2467



$C_{20}H_{29}NO_5$

(*S*)-3-*tert*-Butyl-4-hydroxy-5-[(1-*tert*-butyl-2-hydroxy-ethylimino)-methyl]-phenyl vinyl carbonate

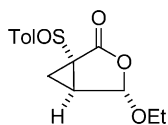
$[\alpha]_D^{20} = -4.0$ (*c* 1, EtOH)

Source of chirality: (*S*)-*tert*-leucinol

Absolute configuration: *S*

Jose Luis García Ruano,* Cristina Fajardo, M. Rosario Martín,
Wanda Midura and Marian Mikołajczyk*

Tetrahedron: Asymmetry 15 (2004) 2475



C₁₄H₁₆O₄S

(1*S*,4*S*,5*R*,*S*₅)-4-Ethoxy-1-[(4-methylphenyl)sulfinyl]-3-oxabicyclo[3.1.0]hexan-2-one

Ee = 100%

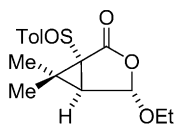
[α]_D = +310.1 (*c* 0.25, CHCl₃)

Source of chirality: diastereoselective synthesis

Absolute configuration (1*S*,4*S*,5*R*,*S*₅)

Jose Luis García Ruano,* Cristina Fajardo, M. Rosario Martín,
Wanda Midura and Marian Mikołajczyk*

Tetrahedron: Asymmetry 15 (2004) 2475



C₁₆H₂₀O₄S

(1*R*,4*S*,5*R*,*S*₅)-4-Ethoxy-6,6-dimethyl-1-[(4-methylphenyl)sulfinyl]-3-oxabicyclo[3.1.0]hexan-2-one

Ee = 100%

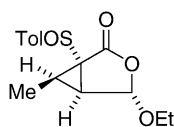
[α]_D = +114.6 (*c* 0.25, CHCl₃)

Source of chirality: diastereoselective synthesis

Absolute configuration (1*R*,4*S*,5*R*,*S*₅)

Jose Luis García Ruano,* Cristina Fajardo, M. Rosario Martín,
Wanda Midura and Marian Mikołajczyk*

Tetrahedron: Asymmetry 15 (2004) 2475



C₁₅H₁₈O₄S

(1*S*,4*S*,5*R*,6*R*,*S*₅)-4-Ethoxy-6-methyl-1-[(4-methylphenyl)sulfinyl]-3-oxabicyclo[3.1.0]hexan-2-one

Ee = 100%

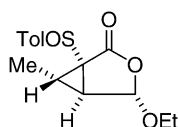
[α]_D = +231.0 (*c* 0.5, acetone)

Source of chirality: diastereoselective synthesis

Absolute configuration (1*R*,4*S*,5*R*,6*R*,*S*₅)

Jose Luis García Ruano,* Cristina Fajardo, M. Rosario Martín,
Wanda Midura and Marian Mikołajczyk*

Tetrahedron: Asymmetry 15 (2004) 2475



C₁₅H₁₈O₄S

(1*S*,4*S*,5*R*,6*S*,*S*₅)-4-Ethoxy-6-methyl-1-[(4-methylphenyl)sulfinyl]-3-oxabicyclo[3.1.0]hexan-2-one

Ee = 100%

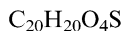
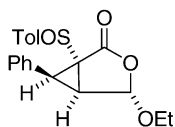
[α]_D = +137.7 (*c* 0.2, acetone)

Source of chirality: diastereoselective synthesis

Absolute configuration (1*S*,4*S*,5*R*,6*S*,*S*₅)

Jose Luis García Ruano,* Cristina Fajardo, M. Rosario Martín,
Wanda Midura and Marian Mikołajczyk*

Tetrahedron: Asymmetry 15 (2004) 2475



(1*S*,4*S*,5*R*,6*R*,*S*₅)-4-Ethoxy-6-phenyl-1-[(4-methylphenyl)sulfinyl]-3-oxabicyclo[3.1.0]hexan-2-one

Ee = 100%

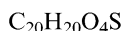
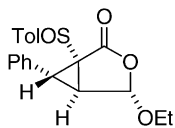
$[\alpha]_D = -37.7$ (*c* 0.25, $CHCl_3$)

Source of chirality: diastereoselective synthesis

Absolute configuration (1*S*,4*S*,5*R*,6*R*,*S*₅)

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Wanda Midura and Marian Mikołajczyk*

Tetrahedron: Asymmetry 15 (2004) 2475



(1*S*,4*S*,5*R*,6*S*,*S*₅)-4-Ethoxy-6-phenyl-1-[(4-methylphenyl)sulfinyl]-3-oxabicyclo[3.1.0]hexan-2-one

Ee = 100%

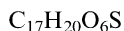
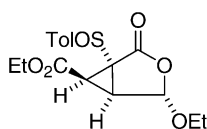
$[\alpha]_D = +117.2$ (*c* 0.25, $CHCl_3$)

Source of chirality: diastereoselective synthesis

Absolute configuration (1*S*,4*S*,5*R*,6*S*,*S*₅)

Jose Luis García Ruano,* Cristina Fajardo, M. Rosario Martín,
Wanda Midura and Marian Mikołajczyk*

Tetrahedron: Asymmetry 15 (2004) 2475



Ethyl (1*R*,4*S*,5*R*,6*S*,*S*₅)-4-ethoxy-1-[(4-methylphenyl)sulfinyl]-2-oxo-3-oxabicyclo[3.1.0]hexan-6-carboxylate

Ee = 100%

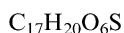
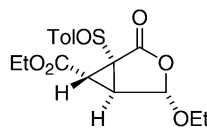
$[\alpha]_D = +80.1$ (*c* 0.85, acetone)

Source of chirality: diastereoselective synthesis

Absolute configuration (1*R*,4*S*,5*R*,6*S*,*S*₅)

Jose Luis García Ruano,* Cristina Fajardo, M. Rosario Martín,
Wanda Midura and Marian Mikołajczyk*

Tetrahedron: Asymmetry 15 (2004) 2475



Ethyl (1*R*,4*S*,5*R*,6*R*,*S*₅)-4-ethoxy-1-[(4-methylphenyl)sulfinyl]-2-oxo-3-oxabicyclo[3.1.0]hexan-6-carboxylate

Ee = 100%

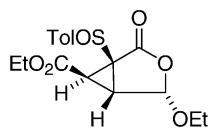
$[\alpha]_D = +139.6$ (*c* 0.25, acetone)

Source of chirality: diastereoselective synthesis

Absolute configuration (1*R*,4*S*,5*R*,6*R*,*S*₅)

Jose Luis García Ruano,* Cristina Fajardo, M. Rosario Martín,
Wanda Midura and Marian Mikołajczyk*

Tetrahedron: Asymmetry 15 (2004) 2475



$C_{17}H_{20}O_6S$

Ethyl (1S,4S,5R,6S,6S)-4-ethoxy-1-[(4-methylphenyl)sulfonyl]-2-oxo-3-oxabicyclo[3.1.0]hexan-6-carboxylate

Ee = 100%

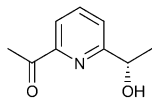
$[\alpha]_D^{25} = +507.8$ (c 0.95, $CHCl_3$)

Source of chirality: diastereoselective synthesis

Absolute configuration (1S,4S,5R,6S,6S)

Gábor Sztzker, Ildikó Móczár, Pál Kolonits, Lajos Novák,
Péter Huszthy* and László Poppe*

Tetrahedron: Asymmetry 15 (2004) 2483



$C_9H_{11}NO_2$

(S)-1-[6-(1-Hydroxyethyl)pyridin-2-yl]ethanone

Ee >98% (by GC on Beta-DEX 120 column)

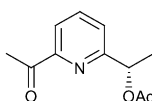
$[\alpha]_D^{25} = -62.0$ (c 2.0, ethanol)

Source of chirality: lipase-catalyzed kinetic resolution

Absolute configuration: S

Gábor Sztzker, Ildikó Móczár, Pál Kolonits, Lajos Novák,
Péter Huszthy* and László Poppe*

Tetrahedron: Asymmetry 15 (2004) 2483



$C_{11}H_{13}NO_3$

(S)-1-[6-(1-Acetoxyethyl)pyridin-2-yl]ethanone

Ee >98% (by GC on Beta-DEX 120 column)

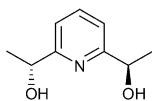
$[\alpha]_D^{25} = -75.8$ (c 2.0, ethanol)

Source of chirality: lipase-catalyzed kinetic resolution

Absolute configuration: S

Gábor Sztzker, Ildikó Móczár, Pál Kolonits, Lajos Novák,
Péter Huszthy* and László Poppe*

Tetrahedron: Asymmetry 15 (2004) 2483



$C_{11}H_{13}NO_2$

(R,R)-2,6-Bis(1-hydroxyethyl)pyridine

Ee >98% (by GC on HP Chiral column)

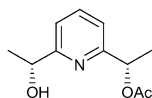
$[\alpha]_D^{25} = +70.0$ (c 2.0, ethanol)

Source of chirality: lipase-catalyzed kinetic resolution

Absolute configuration: R,R

Gábor Szatzker, Ildikó Móczár, Pál Kolonits, Lajos Novák,
Péter Huszthy* and László Poppe*

Tetrahedron: Asymmetry 15 (2004) 2483



C₁₃H₁₅NO₃

(*S,R*)-1-[6-(1-Hydroxyethyl)-pyridin-2-yl]ethyl acetate

Ee >98% (by GC on HP Chiral column)

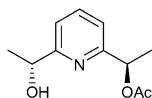
[α]_D²⁵ = -49.8 (c 2.0, ethanol)

Source of chirality: lipase-catalyzed asymmetric hydrolysis

Absolute configuration: *S,R*

Gábor Szatzker, Ildikó Móczár, Pál Kolonits, Lajos Novák,
Péter Huszthy* and László Poppe*

Tetrahedron: Asymmetry 15 (2004) 2483



C₁₃H₁₅NO₃

(*R,R*)-1-[6-(1-Hydroxyethyl)-pyridin-2-yl]ethyl acetate

Ee >98% (by GC on HP Chiral column)

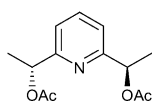
[α]_D²⁵ = +138.4 (c 2.0, ethanol)

Source of chirality: lipase-catalyzed kinetic resolution

Absolute configuration: *R,R*

Gábor Szatzker, Ildikó Móczár, Pál Kolonits, Lajos Novák,
Péter Huszthy* and László Poppe*

Tetrahedron: Asymmetry 15 (2004) 2483



C₁₃H₁₅NO₃

(*R,R*)-2,6-Bis(1-acetoxyethyl)pyridine

Ee >98% (by GC on HP Chiral column after hydrolysis)

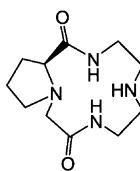
[α]_D²⁵ = +182.6 (c 2.0, ethanol)

Source of chirality: lipase-catalyzed kinetic resolution

Absolute configuration: *R,R*

Xuemei Yang, Xiaojun Wu, Maohai Fang, Quan Yuan and Enqin Fu*

Tetrahedron: Asymmetry 15 (2004) 2491



C₁₁H₂₀N₄O₂

(12*S*)-1,4,7,10-Tetraazadicyclo[10.3.0]pentadecane-3,11-dione

Ee = 100%

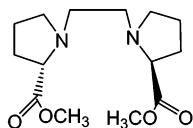
[α]_D²⁰ = -18.0 (c 0.5, MeOH)

Source of chirality: (-)-proline

Absolute configuration: (12*S*)

Xuemei Yang, Xiaojun Wu, Maohai Fang, Quan Yuan and Enqin Fu*

Tetrahedron: Asymmetry 15 (2004) 2491



$C_{14}H_{24}N_2O_4$

1,2-Bis[(2*S*)-2-carbomethoxy-1-pyrrolidinyl]ethane

Ee = 100%

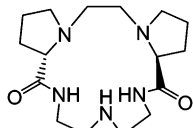
$[\alpha]_D^{20} = -138.0$ (*c* 4.0, H₂O)

Source of chirality: (-)-proline

Absolute configuration: (2*S*)

Xuemei Yang, Xiaojun Wu, Maohai Fang, Quan Yuan and Enqin Fu*

Tetrahedron: Asymmetry 15 (2004) 2491



$C_{16}H_{29}N_5O_2$

(8*S*,18*S*)-1,4,10,13,16-Pentaaza-tricyclo[16.3.0.0^{4,8}]heneicosane-9,17-dione

Ee = 100%

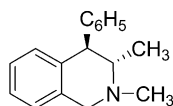
$[\alpha]_D^{20} = -234.8$ (*c* 1.0, MeOH)

Source of chirality: (-)-proline

Absolute configuration: (8*S*,18*S*)

Agata Głuszyńska, Iwona Maćkowska, Maria D. Rozwadowska* and Wiesława Sienniak

Tetrahedron: Asymmetry 15 (2004) 2499



$C_{17}H_{19}N$

(3*S*,4*R*)-2,3-Dimethyl-4-phenyl-1,2,3,4-tetrahydroisoquinoline

Ee = 100%

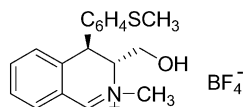
$[\alpha]_D = -71.3$ (*c* 0.96, MeOH)

Source of chirality: (3*R*,4*R*)-3-hydroxymethyl-2-methyl-4-(4-methylthiophenyl)-1,2,3,4-tetrahydroisoquinoline

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

Agata Głuszyńska, Iwona Maćkowska, Maria D. Rozwadowska* and Wiesława Sienniak

Tetrahedron: Asymmetry 15 (2004) 2499



$C_{18}H_{20}BF_4NOS$

(3*R*,4*R*)-3-Hydroxymethyl-2-methyl-4-(4-methylthiophenyl)-3,4-dihydroisoquinolinium tetrafluoroborate

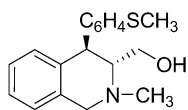
Ee = 100%

$[\alpha]_D = -285.2$ (*c* 0.5, MeOH)

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

Agata Głuszyńska, Iwona Maćkowska, Maria D. Rozwadowska* and
Wiesława Sienniak

Tetrahedron: Asymmetry 15 (2004) 2499



$C_{18}H_{21}NOS$

(3*R*,4*R*)-3-Hydroxymethyl-2-methyl-4-(4-methylthiophenyl)-
1,2,3,4-tetrahydroisoquinoline

Ee = 100%

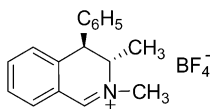
$[\alpha]_D = -118.5$ (*c* 0.98, MeOH)

Source of chirality: (3*R*,4*R*)-3-hydroxymethyl-
4-(4-methylthiophenyl)-1,2,3,4-
tetrahydroisoquinoline

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

Agata Głuszyńska, Iwona Maćkowska, Maria D. Rozwadowska* and
Wiesława Sienniak

Tetrahedron: Asymmetry 15 (2004) 2499



$C_{17}H_{18}NBF_4$

(3*S*,4*R*)-2,3-Dimethyl-4-phenyl-3,4-dihydroisoquinolinium tetrafluoroborate

Ee = 100%

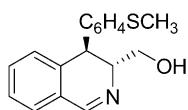
$[\alpha]_D = -148.3$ (*c* 1, CHCl₃)

Source of chirality: (3*S*,4*R*)-2,3-dimethyl-
4-phenyl-1,2,3,4-tetrahydroisoquinoline

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

Agata Głuszyńska, Iwona Maćkowska, Maria D. Rozwadowska* and
Wiesława Sienniak

Tetrahedron: Asymmetry 15 (2004) 2499



$C_{17}H_{17}NOS$

(3*R*,4*R*)-3-Hydroxymethyl-4-(4-methylthiophenyl)-3,4-dihydroisoquinoline

Ee = 100%

$[\alpha]_D = -100.4$ (*c* 0.56, MeOH)

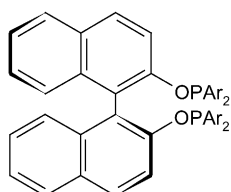
$[\alpha]_D = +64.4$ (*c* 0.25, CHCl₃)

Source of chirality: (3*R*,4*R*)-3-hydroxymethyl-4-
(4-methylthiophenyl)-1,2,3,4-tetrahydroisoquinoline

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

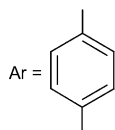
Csaba Hegedüs, József Madarász, Ildikó Gergely, Áron Szöllösy,
Axel Monsees, Thomas Riermeier and József Bakos*

Tetrahedron: Asymmetry 15 (2004) 2507



$C_{48}H_{40}O_2P_2$

(*S*)-2,2'-Bis{[di(4-methylphenyl)phosphinyl]oxy}-1,1'-binaphthyl



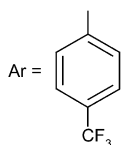
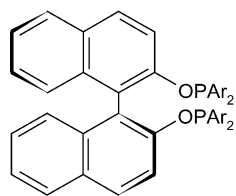
$[\alpha]_D^{20} = -32.6$ (*c* 1.0, CH₂Cl₂)

Source of chirality: (*S*)-(-)-1,1'-bi-2-naphthol

Absolute configuration: *S*

Csaba Hegedüs, József Madarász, Ildikó Gergely, Áron Szöllősy,
Axel Monsees, Thomas Riermeier and József Bakos*

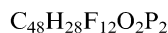
Tetrahedron: Asymmetry 15 (2004) 2507



$$[\alpha]_D^{20} = -11.0 (c 1.0, \text{CH}_2\text{Cl}_2)$$

Source of chirality: (S)-(-)-1,1'-bi-2-naphthol

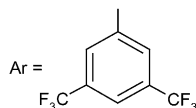
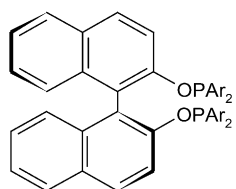
Absolute configuration: S



(S)-2,2'-Bis[di(4-trifluoromethylphenyl)phosphinyl]oxy-1,1'-binaphthyl

Csaba Hegedüs, József Madarász, Ildikó Gergely, Áron Szöllősy,
Axel Monsees, Thomas Riermeier and József Bakos*

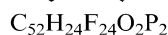
Tetrahedron: Asymmetry 15 (2004) 2507



$$[\alpha]_D^{20} = -19.1 (c 1.0, \text{CH}_2\text{Cl}_2)$$

Source of chirality: (S)-(-)-1,1'-bi-2-naphthol

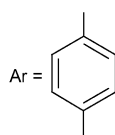
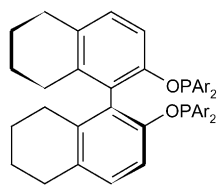
Absolute configuration: S



(S)-2,2'-Bis[di(3,5-bis(trifluoromethyl)phenyl)phosphinyl]oxy-1,1'-binaphthyl

Csaba Hegedüs, József Madarász, Ildikó Gergely, Áron Szöllősy,
Axel Monsees, Thomas Riermeier and József Bakos*

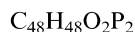
Tetrahedron: Asymmetry 15 (2004) 2507



$$[\alpha]_D^{20} = -43.5 (c 1.0, \text{CH}_2\text{Cl}_2)$$

Source of chirality: (S)-(-)-1,1'-bi-2-naphthol

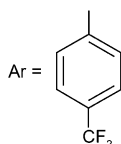
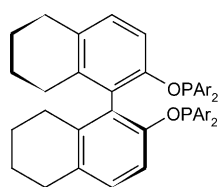
Absolute configuration: S



(S)-2,2'-Bis[di(4-methylphenyl)phosphinyl]oxy-5,5',6,6',7,7',8,8'-octahydro-1,1'-binaphthyl

Csaba Hegedüs, József Madarász, Ildikó Gergely, Áron Szöllősy,
Axel Monsees, Thomas Riermeier and József Bakos*

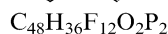
Tetrahedron: Asymmetry 15 (2004) 2507



$$[\alpha]_D^{20} = -8.0 (c 1.0, \text{CH}_2\text{Cl}_2)$$

Source of chirality: (S)-(-)-1,1'-bi-2-naphthol

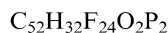
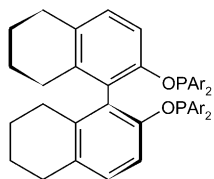
Absolute configuration: S



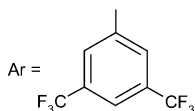
(S)-2,2'-Bis[di(4-trifluoromethylphenyl)phosphinyl]oxy-5,5',6,6',7,7',8,8'-octahydro-1,1'-binaphthyl

Csaba Hegedüs, József Madarász, Ildikó Gergely, Áron Szöllösy,
Axel Monsees, Thomas Riermeier and József Bakos*

Tetrahedron: Asymmetry 15 (2004) 2507



(*S*)-2,2'-Bis{[di(3,5-di(trifluoromethyl)phenyl)phosphinyl]oxy}-5,5',6,6',7,7',8,8'-octahydro-1,1'-binaphthyl



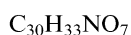
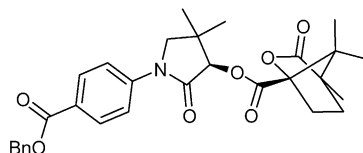
$$[\alpha]_D^{20} = +16.4 (c 1.0, CH_2Cl_2)$$

Source of chirality: (*S*)-(-)-1,1'-bi-2-naphthol

Absolute configuration: *S*

Rhalid Akkari, Monique Calmès,* Françoise Escale, Julien Iapichella,
Marc Rolland and Jean Martinez

Tetrahedron: Asymmetry 15 (2004) 2515



[1-(4-Benzyloxycarbonylphenyl)-4,4-dimethyl-2-oxopyrrolidin-3-yl] 4,7,7-trimethyl-3-oxo-2-oxabicyclo [2.2.1]-heptane-1-carboxylate

$$[\alpha]_D^{20} = -6 (c 2, acetone)$$

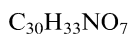
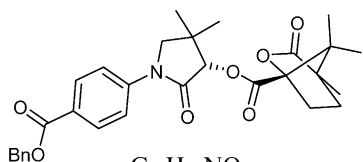
De = 99%

Source of chirality: (1*S*)-camphanic acid chloride

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

Rhalid Akkari, Monique Calmès,* Françoise Escale, Julien Iapichella,
Marc Rolland and Jean Martinez

Tetrahedron: Asymmetry 15 (2004) 2515



[1-(4-Benzyloxycarbonylphenyl)-4,4-dimethyl-2-oxopyrrolidin-3-yl] 4,7,7-trimethyl-3-oxo-2-oxabicyclo [2.2.1]-heptane-1-carboxylate

$$[\alpha]_D^{20} = -15 (c 2, CH_2Cl_2)$$

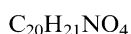
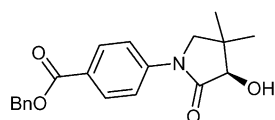
De = 95%

Source of chirality: (1*S*)-camphanic acid chloride

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

Rhalid Akkari, Monique Calmès,* Françoise Escale, Julien Iapichella,
Marc Rolland and Jean Martinez

Tetrahedron: Asymmetry 15 (2004) 2515



Benzyl 4-(3-hydroxy-4,4-dimethyl-2-oxopyrrolidin-1-yl)benzoate

$$[\alpha]_D^{20} = +16 (c 3, CH_2Cl_2)$$

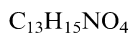
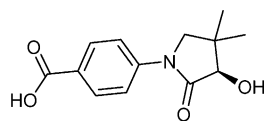
De = 99%

Source of chirality: (1*S*)-camphanic acid chloride

Absolute configuration: (*R*)

Rhalid Akkari, Monique Calmès,* Françoise Escale, Julien Iapichella,
Marc Rolland and Jean Martinez

Tetrahedron: Asymmetry 15 (2004) 2515



4-(3-Hydroxy-4,4-dimethyl-2-oxopyrrolidin-1-yl) benzoic acid

$[\alpha]_D^{20} = +13$ (c 1.5, acetone)

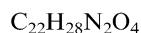
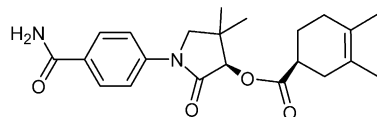
De = 99%

Source of chirality: (1*S*)-camphanic acid chloride

Absolute configuration: (*R*)

Rhalid Akkari, Monique Calmès,* Françoise Escale, Julien Iapichella,
Marc Rolland and Jean Martinez

Tetrahedron: Asymmetry 15 (2004) 2515



(-)-[1-(4-Carbamoylphenyl)-4,4-dimethyl-2-oxopyrrolidin-3-yl]-3,4-dimethylcyclohex-3-ene-1-carboxylate

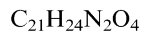
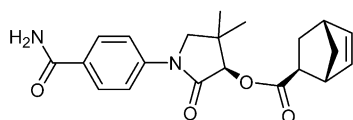
$[\alpha]_D^{20} = -4$ (c 1.7, EtOH)

De = 99%

Source of chirality: resin-supported (*R*)-4-(3-hydroxy-4,4-dimethyl-2-oxopyrrolidin-1-yl)benzoic acid (-)-isomer

Rhalid Akkari, Monique Calmès,* Françoise Escale, Julien Iapichella,
Marc Rolland and Jean Martinez

Tetrahedron: Asymmetry 15 (2004) 2515



[1-(4-Carbamoylphenyl)-4,4-dimethyl-2-oxopyrrolidin-3-yl]bicyclo[2.2.1]hept-5-ene-2-carboxylate

$[\alpha]_D^{20} = -29$ (c 1.6, EtOH)

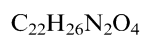
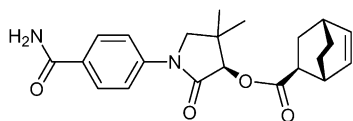
De = 86%

Source of chirality: resin-supported (*R*)-4-(3-hydroxy-4,4-dimethyl-2-oxopyrrolidin-1-yl)benzoic acid

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

Rhalid Akkari, Monique Calmès,* Françoise Escale, Julien Iapichella,
Marc Rolland and Jean Martinez

Tetrahedron: Asymmetry 15 (2004) 2515



[1-(4-Carbamoylphenyl)-4,4-dimethyl-2-oxopyrrolidin-3-yl]bicyclo[2.2.2]hept-5-ene-2-carboxylate

$[\alpha]_D^{20} = -24$ (c 1.5, EtOH)

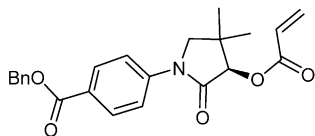
De = 85%

Source of chirality: resin-supported (*R*)-4-(3-hydroxy-4,4-dimethyl-2-oxopyrrolidin-1-yl)benzoic acid

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

Rhalid Akkari, Monique Calmès,* Françoise Escale, Julien Iapichella,
Marc Rolland and Jean Martinez

Tetrahedron: Asymmetry 15 (2004) 2515



$C_{23}H_{23}NO_5$

Benzyl-4-(3-acryloyloxy-4,4-dimethyl-2-oxopyrrolidin-1-yl)-benzoate

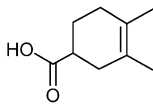
$[\alpha]_D^{20} = +20$ (*c* 1.4, EtOH)

De = 99%

Absolute configuration: (*R*)

Rhalid Akkari, Monique Calmès,* Françoise Escale, Julien Iapichella,
Marc Rolland and Jean Martinez

Tetrahedron: Asymmetry 15 (2004) 2515



$C_9H_{14}O_2$

3,4-Dimethyl cyclohex-3-ene-carboxylic acid

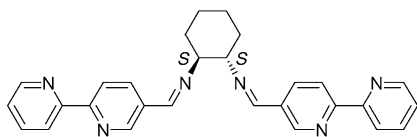
$[\alpha]_D^{20} = -85$ (*c* 1.8, EtOH)

De = 99%

Source of chirality: resin-supported (*R*)-4-(3-hydroxy-4,4-dimethyl-2-oxopyrrolidin-1-yl)benzoic acid (–)-isomer

Ravi Prabakaran, Roma E. Oakes, Nicholas C. Fletcher* and
Mark Nieuwenhuyzen

Tetrahedron: Asymmetry 15 (2004) 2527



$C_{28}H_{26}N_6$

N,N'-Bis(2,2'-dipyridyl-5-methylene)-(1*S*,2*S*)-1,2-diiminocyclohexane

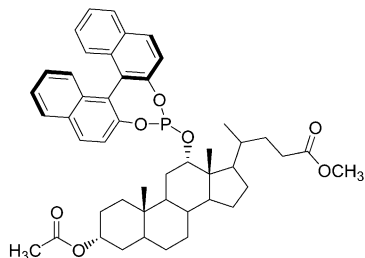
Ee >98%

$[\alpha]_D = +105$ (*c*, 1.0 g mL⁻¹ CH₂Cl₂)

Source of chirality: (1*S*,2*S*)-diaminocyclohexane

Anna Iuliano,* Patrizia Scafato* and Rita Torchia

Tetrahedron: Asymmetry 15 (2004) 2533



$C_{47}H_{55}O_7P$

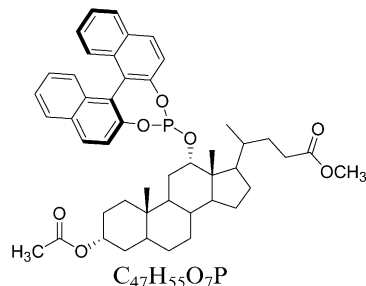
Methyl 3α-acetoxy-12α [(*R*)-(1,1'-binaphthyl-2,2'-diyl)phosphite]-5β-cholan-24-oate

$[\alpha]_D^{25} = -159.2$ (*c* 1.0, CHCl₃)

Source of chirality: natural and synthetic

Anna Iuliano,* Patrizia Scafato* and Rita Torchia

Tetrahedron: Asymmetry 15 (2004) 2533



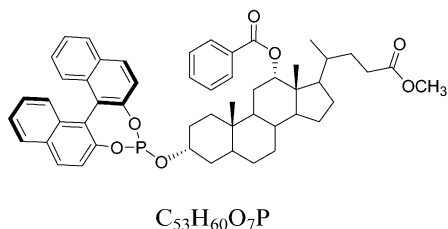
Methyl 3 α -acetoxy-12 α [(S)-(1,1'-binaphthyl-2,2'-diyl)phosphite]-5 β -cholan-24-oate

$$[\alpha]_D^{25} = +240.4 (c 1.0, CHCl_3)$$

Source of chirality: natural and synthetic

Anna Iuliano,* Patrizia Scafato* and Rita Torchia

Tetrahedron: Asymmetry 15 (2004) 2533



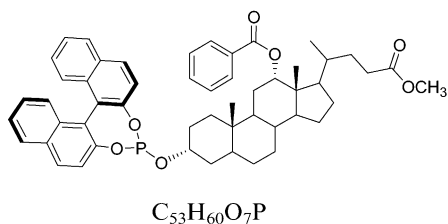
Methyl 3 α -[(R)-(1,1'-binaphthyl-2,2'-diyl)phosphite]-12 α -benzoyloxy-5 β -cholan-24-oate

$$[\alpha]_D^{25} = -172 (c 0.7, CH_2Cl_2)$$

Source of chirality: natural and synthetic

Anna Iuliano,* Patrizia Scafato* and Rita Torchia

Tetrahedron: Asymmetry 15 (2004) 2533



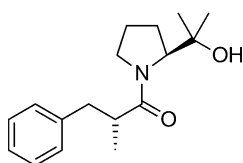
Methyl 3 α -[(S)-(1,1'-binaphthyl-2,2'-diyl)phosphite]-12 α -benzoyloxy-5 β -cholan-24-oate

$$[\alpha]_D^{25} = +264 (c 1.15, CH_2Cl_2)$$

Source of chirality: natural and synthetic

Fredrik Andersson and Erik Hedenström*

Tetrahedron: Asymmetry 15 (2004) 2539



(R)-2-Benzyl-1-[(S)-2-(2-hydroxypropan-2-yl)pyrrolidin-1-yl]propan-1-one

Dr >99.5%

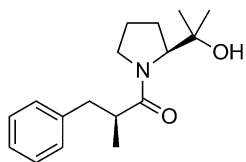
$$[\alpha]_D^{20} = -147 (c 1.39, MeOH)$$

Source of chirality: diastereoselective alkylation

Absolute configuration: R,S

Fredrik Andersson and Erik Hedenström*

Tetrahedron: Asymmetry 15 (2004) 2539



$C_{17}H_{25}NO_2$

(S)-2-Benzyl-1-[(S)-2-(2-hydroxypropan-2-yl)pyrrolidin-1-yl]propan-1-one

Dr >99.5%

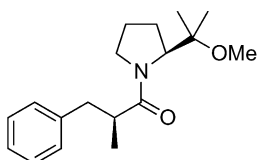
$[\alpha]_D^{20} = +29.9$ (c 1.39, MeOH)

Source of chirality: diastereoselective alkylation

Absolute configuration: S,S

Fredrik Andersson and Erik Hedenström*

Tetrahedron: Asymmetry 15 (2004) 2539



$C_{18}H_{27}NO_2$

(S)-2-Benzyl-1-[(S)-2-(2-methoxypropan-2-yl)pyrrolidin-1-yl]propan-1-one

Dr >99.5%

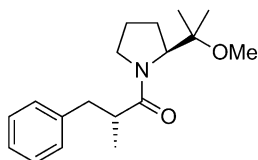
$[\alpha]_D^{20} = +39.5$ (c 1.44, CHCl₃)

Source of chirality: diastereoselective alkylation

Absolute configuration: S,S

Fredrik Andersson and Erik Hedenström*

Tetrahedron: Asymmetry 15 (2004) 2539



$C_{18}H_{27}NO_2$

(R)-2-Benzyl-1-[(S)-2-(2-methoxypropan-2-yl)pyrrolidin-1-yl]propan-1-one

Dr >99.5%

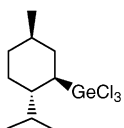
$[\alpha]_D^{20} = -82.5$ (c 1.45, CHCl₃)

Source of chirality: diastereoselective alkylation

Absolute configuration: R,S

Le Zeng, Dainis Dakternieks, Andrew Duthie,
V. Tamara Perchyonok and Carl H. Schiesser*

Tetrahedron: Asymmetry 15 (2004) 2547



$C_{10}H_{19}Cl_3Ge$

(1R,2S,5R)-(-)-Menthylgermanium trichloride

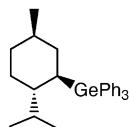
Ee = 99%

$[\alpha]_D^{25} = -51.3$ (c 1, CHCl₃)

Source of chirality: chiral pool

Le Zeng, Dainis Dakternieks, Andrew Duthie,
V. Tamara Perchyonok and Carl H. Schiesser*

Tetrahedron: Asymmetry 15 (2004) 2547



$C_{28}H_{34}Ge$
(1*R*,2*S*,5*R*)-(-)-Menthyltriphenylgermane

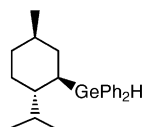
Ee = 99%

$[\alpha]_D^{25} = -34.8$ (*c* 1, $CHCl_3$)

Source of chirality: chiral pool

Le Zeng, Dainis Dakternieks, Andrew Duthie,
V. Tamara Perchyonok and Carl H. Schiesser*

Tetrahedron: Asymmetry 15 (2004) 2547



$C_{22}H_{30}Ge$
(1*R*,2*S*,5*R*)-(-)-Menthyl-diphenylgermane

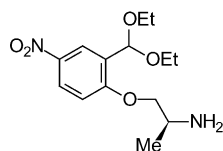
Ee = 99%

$[\alpha]_D^{22} = -32.2$ (*c* 1, toluene)

Source of chirality: chiral pool

Paola Del Buttero,* Giorgio Molteni, Antonio Papagni and
Luciano Miozzo

Tetrahedron: Asymmetry 15 (2004) 2555



$C_{14}H_{22}N_2O_5$
2(*S*)-Aminopropyl-[2-(1,1-bis-ethoxymethyl)-4-nitrophenyl]ether

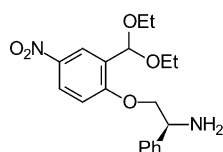
$[\alpha]_D^{25} = +7.1$ (*c* 1.28, $CHCl_3$)

Source of chirality: (*S*)-(+)-2-amino-1-propanol

Absolute configuration: 2(*S*)

Paola Del Buttero,* Giorgio Molteni, Antonio Papagni and
Luciano Miozzo

Tetrahedron: Asymmetry 15 (2004) 2555



$C_{19}H_{24}N_2O_5$
2-Phenyl-2(*S*)-aminoethyl-[2-(1,1-bis-ethoxymethyl)-4-nitrophenyl]ether

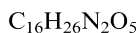
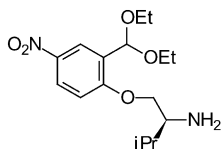
$[\alpha]_D^{25} = +25.6$ (*c* 0.87, $CHCl_3$)

Source of chirality: (*S*)-(+)-phenylglycinol

Absolute configuration: 2(*S*)

Paola Del Buttero,* Giorgio Molteni, Antonio Papagni and Luciano Miozzo

Tetrahedron: Asymmetry 15 (2004) 2555



2-Methyl-3(S)-aminobutyl-[2-(1,1-bis-ethoxymethyl)-4-nitrophenyl]ether

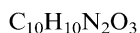
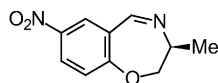
$$[\alpha]_D^{25} = +14.9 (c 0.89, CHCl_3)$$

Source of chirality: (S)-(+)-2-amino-3-methyl-1-butanol

Absolute configuration: 2(S)

Paola Del Buttero,* Giorgio Molteni, Antonio Papagni and Luciano Miozzo

Tetrahedron: Asymmetry 15 (2004) 2555



2,3-Dihydro-3(S)-methyl-7-nitrobenzo[f][1,4]oxazepine

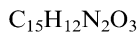
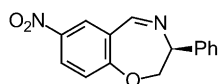
$$[\alpha]_D^{25} = -113.7 (c 1.13, CHCl_3)$$

Source of chirality: the precursor

Absolute configuration: 3(S)

Paola Del Buttero,* Giorgio Molteni, Antonio Papagni and Luciano Miozzo

Tetrahedron: Asymmetry 15 (2004) 2555



2,3-Dihydro-3(S)-phenyl-7-nitrobenzo[f][1,4]oxazepine

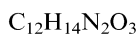
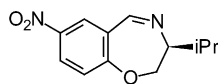
$$[\alpha]_D^{25} = -25.0 (c 1.13, CHCl_3)$$

Source of chirality: the precursor

Absolute configuration: 3(S)

Paola Del Buttero,* Giorgio Molteni, Antonio Papagni and Luciano Miozzo

Tetrahedron: Asymmetry 15 (2004) 2555



2,3-Dihydro-3(S)-isopropyl-7-nitrobenzo[f][1,4]oxazepine

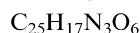
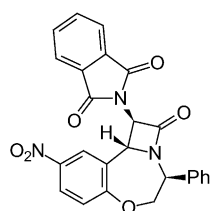
$$[\alpha]_D^{25} = -53.4 (c 0.69, CHCl_3)$$

Source of chirality: the precursor

Absolute configuration: 3(S)

Paola Del Buttero,* Giorgio Molteni, Antonio Papagni and Luciano Miozzo

Tetrahedron: Asymmetry 15 (2004) 2555



1(R)-Phthalimido-1a(R)-2-oxo-3(S)-phenyl-8-nitro-1,1a,3,4-tetrahydro-azetidino[4,1-d][1,4]benzoxazepine

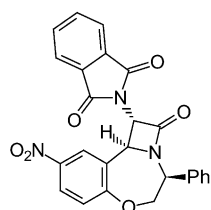
$$[\alpha]_D^{25} = -108.0 (c 0.70, CHCl_3)$$

Source of chirality: the precursor

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

Paola Del Buttero,* Giorgio Molteni, Antonio Papagni and Luciano Miozzo

Tetrahedron: Asymmetry 15 (2004) 2555



1(S)-Phthalimido-1a(S)-2-oxo-3(S)-phenyl-8-nitro-1,1a,3,4-tetrahydro-azetidino[4,1-d][1,4]benzoxazepine

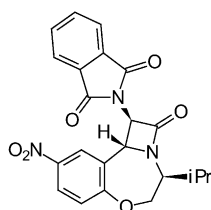
$$[\alpha]_D^{25} = +354.6 (c 0.80, CHCl_3)$$

Source of chirality: the precursor

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

Paola Del Buttero,* Giorgio Molteni, Antonio Papagni and Luciano Miozzo

Tetrahedron: Asymmetry 15 (2004) 2555



1(R)-Phthalimido-1a(R)-2-oxo-3(S)-isopropyl-8-nitro-1,1a,3,4-tetrahydro-azetidino[4,1-d][1,4]benzoxazepine

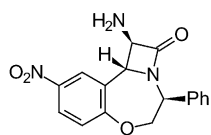
$$[\alpha]_D^{25} = -221.3 (c 1.06, CHCl_3)$$

Source of chirality: the precursor

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

Paola Del Buttero,* Giorgio Molteni, Antonio Papagni and Luciano Miozzo

Tetrahedron: Asymmetry 15 (2004) 2555



1(R)-Amino-1a(R)-2-oxo-3(S)-phenyl-8-nitro-1,1a,3,4-tetrahydro-azetidino[4,1-d][1,4]benzoxazepine

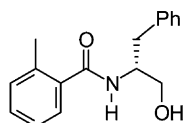
$$[\alpha]_D^{25} = -90.0 (c 0.57, CHCl_3)$$

Source of chirality: the precursor

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

Maria Chrzanowska* and Agnieszka Dreas

Tetrahedron: Asymmetry 15 (2004) 2561



$C_{17}H_{19}NO_2$

(2*R*)-2-*o*-Toluamide-3-phenylpropanol

Ee = 100%

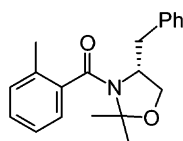
$[\alpha]_D = +36.4$ (*c* 1.055, $CHCl_3$)

Source of chirality: (*R*)-2-amino-3-phenylpropanol

Absolute configuration: (2*R*)

Maria Chrzanowska* and Agnieszka Dreas

Tetrahedron: Asymmetry 15 (2004) 2561



$C_{20}H_{23}NO_2$

(4*R*)-2,2-Dimethyl-3-*o*-toluoyl-4-benzyloxazolidine

Ee = 100%

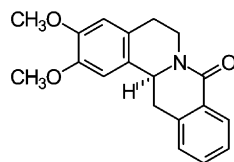
$[\alpha]_D = +32.6$ (*c* 1.115, $CHCl_3$)

Source of chirality: (*R*)-2-amino-3-phenylpropanol

Absolute configuration: (4*R*)

Maria Chrzanowska* and Agnieszka Dreas

Tetrahedron: Asymmetry 15 (2004) 2561



$C_{19}H_{19}NO_3$

(13*aS*)-5,6,13,13*a*-Tetrahydro-2,3-dimethoxy-8*H*-dibenzo[*a,g*]quinolizin-8-one

Ee >99%

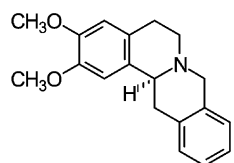
$[\alpha]_D = -413.8$ (*c* 0.359, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (13*aS*)

Maria Chrzanowska* and Agnieszka Dreas

Tetrahedron: Asymmetry 15 (2004) 2561



$C_{19}H_{21}NO_2$

(13*aS*)-5,8,13,13*a*-Tetrahydro-2,3-dimethoxy-6*H*-dibenzo[*a,g*]quinolizine

Ee >99%

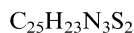
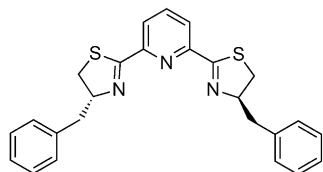
$[\alpha]_D = -285.5$ (*c* 0.51, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (13*aS*)

Paul Le Maux, Isabelle Abrunhosa, Mathieu Berchel,
G rard Simonneaux,* Mihaela Gulea and Serge Masson*

Tetrahedron: Asymmetry 15 (2004) 2569



(*R,R*)-2,6-Bis[4-benzyl-4,5-dihydro-2-thiazolyl]pyridine

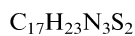
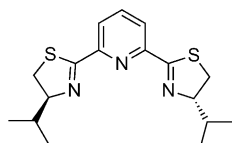
$[\alpha]_D^{20} = -102$ (*c* 1, acetone)

Source of chirality: (*S*)-valinol

Absolute configuration: (*R,R*)

Paul Le Maux, Isabelle Abrunhosa, Mathieu Berchel,
G rard Simonneaux,* Mihaela Gulea and Serge Masson*

Tetrahedron: Asymmetry 15 (2004) 2569



(*S,S*)-2,6-Bis[4-isopropyl-4,5-dihydro-2-thiazolyl]pyridine

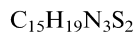
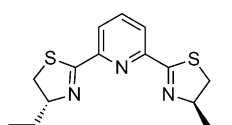
$[\alpha]_D^{20} = -125$ (*c* 1, acetone)

Source of chirality: (*S*)-valinol

Absolute configuration: (*S,S*)

Paul Le Maux, Isabelle Abrunhosa, Mathieu Berchel,
G rard Simonneaux,* Mihaela Gulea and Serge Masson*

Tetrahedron: Asymmetry 15 (2004) 2569



(*R,R*)-2,6-Bis[4-ethyl-4,5-dihydro-2-thiazolyl]pyridine

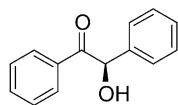
$[\alpha]_D^{20} = +135$ (*c* 1, acetone)

Source of chirality: (*S*)-valinol

Absolute configuration: (*R,R*)

Ayhan S. Demir,* Haluk Hamamci, Peruze Ayhan, A. Nese Duygu,
A. Cigdem İgdir and Doga Capanoglu

Tetrahedron: Asymmetry 15 (2004) 2579



(*R*)-(-)-2-Hydroxy-1,2-diphenylethan-1-one

Ee >99%

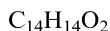
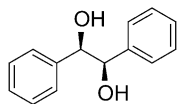
$[\alpha]_D^{25} = -114.5$ (*c* 1.5, CH_3COCH_3)

Source of chirality: fungal conversion

Absolute configuration: (*R*)

Ayhan S. Demir,* Haluk Hamamci, Peruze Ayhan, A. Nese Duygu,
A. Cigdem İğdir and Doga Capanoglu

Tetrahedron: Asymmetry 15 (2004) 2579



(*R,R*)-(+)-1,2-Diphenylethane-1,2-diol

Ee = 99%

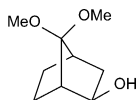
$[\alpha]_D^{25} = +90.3$ (*c* 1, ethanol)

Source of chirality: fungal conversion

Absolute configuration: (*R,R*)

Luciane F. de Oliveira and Valentim E. U. Costa*

Tetrahedron: Asymmetry 15 (2004) 2583



(*1S,2R,4R*)-7,7-Dimethoxynorbornan-2-*exo*-ol

Ee = >98% (by chiral GC)

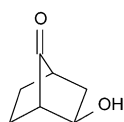
$[\alpha]_D^{20} = -30$ (*c* 1.36, AcOEt)

Source of chirality: enzyme catalyzed transesterification of racemic mixture

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

Luciane F. de Oliveira and Valentim E. U. Costa*

Tetrahedron: Asymmetry 15 (2004) 2583



(*1S,2R,4R*)-2-*exo*-Hydroxynorbornan-7-one

Ee = >98% (by chiral GC)

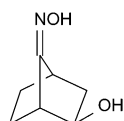
$[\alpha]_D^{20} = +30$ (*c* 1.18, AcOEt)

Source of chirality: enzyme catalyzed transesterification of racemic mixture

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

Luciane F. de Oliveira and Valentim E. U. Costa*

Tetrahedron: Asymmetry 15 (2004) 2583



(*1R,2R,4R*)-2-*exo*-Hydroxynorbornan-7-one oxime

Ee = >98% (by chiral GC)

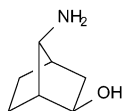
$[\alpha]_D^{20} = +41$ (*c* 1.01, MeOH)

Source of chirality: enzyme catalyzed transesterification of racemic mixture

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

Luciane F. de Oliveira and Valentim E. U. Costa*

Tetrahedron: Asymmetry 15 (2004) 2583



C₇H₁₃NO

(1*R*,2*R*,4*R*)-7-*syn*-Aminonorbornan-2-*exo*-ol

E_e = >98% (by chiral GC)

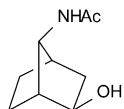
[α]_D²⁰ = +8 (c 1.15, AcOEt)

Source of chirality: enzyme catalyzed transesterification of racemic mixture

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

Luciane F. de Oliveira and Valentim E. U. Costa*

Tetrahedron: Asymmetry 15 (2004) 2583



C₉H₁₅NO₂

(1*R*,2*R*,4*R*)-7-*syn*-Acetamidonorbornan-2-*exo*-ol

E_e = >98% (by chiral GC)

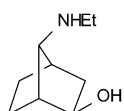
[α]_D²⁰ = +63 (c 1.17, AcOEt)

Source of chirality: enzyme catalyzed transesterification of racemic mixture

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

Luciane F. de Oliveira and Valentim E. U. Costa*

Tetrahedron: Asymmetry 15 (2004) 2583



C₉H₁₇NO

(1*R*,2*R*,4*R*)-7-*syn*-Ethylaminonorbornan-2-*exo*-ol

E_e = >98% (by chiral GC)

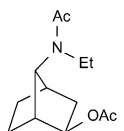
[α]_D²⁰ = +17 (c 1.45, AcOEt)

Source of chirality: enzyme catalyzed transesterification of racemic mixture

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

Luciane F. de Oliveira and Valentim E. U. Costa*

Tetrahedron: Asymmetry 15 (2004) 2583



C₁₃H₂₁NO₃

(1*R*,2*R*,4*R*)-7-*syn*-(Acetyloethyl)aminonorbornan-2-*exo*-yl acetate

E_e = >98% (by chiral GC)

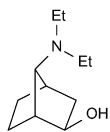
[α]_D²⁰ = -21 (c 1.09, AcOEt)

Source of chirality: enzyme catalyzed transesterification of racemic mixture

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

Luciane F. de Oliveira and Valentim E. U. Costa*

Tetrahedron: Asymmetry 15 (2004) 2583



$C_{11}H_{21}NO$

(1*R*,2*R*,4*R*)-7-*syn*-Diethylaminonorbornan-2-*exo*-ol

Ee = >98% (by chiral GC)

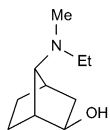
$[\alpha]_D^{20} = +5$ (c 1.04, AcOEt)

Source of chirality: enzyme catalyzed transesterification of racemic mixture

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

Luciane F. de Oliveira and Valentim E. U. Costa*

Tetrahedron: Asymmetry 15 (2004) 2583



$C_{10}H_{19}NO$

(1*R*,2*R*,4*R*)-7-*syn*-Ethylmethylaminonorbornan-2-*exo*-ol

Ee = >98% (by chiral GC)

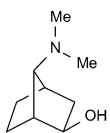
$[\alpha]_D^{20} = +12$ (c 1.13, AcOEt)

Source of chirality: enzyme catalyzed transesterification of racemic mixture

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

Luciane F. de Oliveira and Valentim E. U. Costa*

Tetrahedron: Asymmetry 15 (2004) 2583



$C_9H_{17}NO$

(1*R*,2*R*,4*R*)-7-*syn*-Dimethylaminonorbornan-2-*exo*-ol

Ee = >98% (by chiral GC)

$[\alpha]_D^{20} = +22$ (c 1.08, AcOEt)

Source of chirality: enzyme catalyzed transesterification of racemic mixture

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