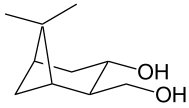
Tetrahedron: Asymmetry *18 (2007) 2727*

Elvia Becerra-Martínez, Pedro Velázquez-Ponce,
Miguel A. Sánchez-Aguilar, Alfredo Rodríguez-Hosteguín,
Pedro Joseph-Nathan, Joaquín Tamariz and L. Gerardo Zepeda*



$C_{10}H_{18}O_2$

(1*S*,2*R*,3*S*)-2-Hydroxymethyl-6,6-dimethylbicyclo[3.1.1]heptan-3-ol

De = >98% (NMR)
$[\alpha]_D^{25} = +14.4$ (*c* 0.12, $CHCl_3$)
Source of chirality: (−)-myrtenal
Absolute configuration: (1*S*,2*R*,3*S*)

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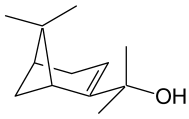

$C_{12}H_{20}O$

(1*R*)-2-(2-Hydroxy-propan-2-yl)-6,6-dimethylbicyclo[3.1.1]hept-2-ene

De = >98% (NMR)
$[\alpha]_D^{24} = -38.3$ (*c* 1.71, MeOH)
Source of chirality: (−)-myrtenal
Absolute configuration: (1*R*)

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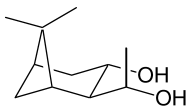

$C_{11}H_{20}O_2$

(1*S*,2*R*,3*S*,10*S*)-2-(1-Hydroxyethyl)-6,6-dimethylbicyclo[3.1.1]heptan-3-ol

De = >98% (NMR)
$[\alpha]_D^{23} = +30.4$ (*c* 0.21, $CHCl_3$)
Source of chirality: (−)-myrtenal
Absolute configuration: (1*S*,2*R*,3*S*,10*S*)

Tetrahedron: Asymmetry *18 (2007) 2727*

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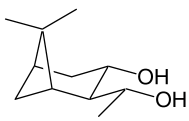

$C_{11}H_{20}O_2$

(1*S*,2*R*,3*S*,10*R*)-2-(1-Hydroxyethyl)-6,6-dimethylbicyclo[3.1.1]heptan-3-ol

De = >98% (NMR)
$[\alpha]_D^{25} = +25.1$ (*c* 1.0, $CHCl_3$)
Source of chirality: (−)-myrtenal
Absolute configuration: (1*S*,2*R*,3*S*,10*R*)

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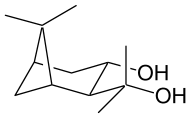
Tetrahedron: Asymmetry *18 (2007) 2727*



De = >98% (NMR)
$[\alpha]_D^{25} = +33.6$ (*c* 1.28, MeOH)
Source of chirality: (−)-myrtenal
Absolute configuration: (1*S*,2*S*,3*S*)

$C_{12}H_{22}O_2$

(1*S*,2*S*,3*S*)-2-(1-Hydroxy-1-methylethyl)-6,6-dimethylbicyclo[3.1.1]heptan-3-ol

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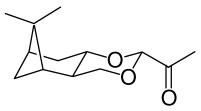
Tetrahedron: Asymmetry *18 (2007) 2727*



De = >98% (NMR)
$[\alpha]_D^{25} = -2.0$ (*c* 0.4, $CHCl_3$)
Source of chirality: (−)-myrtenal
Absolute configuration: (1*S*,2*R*,5*R*,7*S*,9*R*)

$C_{13}H_{20}O_3$

(1*S*,2*R*,5*R*,7*S*,9*R*)-5-Acetyl-10,10-dimethyl-4,6-dioxatricyclo[7.1.1.$0^{2,7}$]undecane

Elvia Becerra-Martínez, Pedro Velázquez-Ponce,
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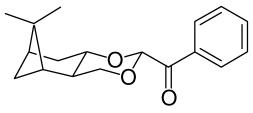
Tetrahedron: Asymmetry *18 (2007) 2727*



De = >98% (NMR)
$[\alpha]_D^{25} = -6.3$ (*c* 0.74, $CHCl_3$)
Source of chirality: (−)-myrtenal
Absolute configuration: (1*S*,2*R*,5*R*,7*S*,9*R*)

$C_{18}H_{22}O_3$

(1*S*,2*R*,5*R*,7*S*,9*R*)-5-Benzoyl-10,10-dimethyl-4,6-dioxatricyclo[7.1.1.$0^{2,7}$]undecane

Elvia Becerra-Martínez, Pedro Velázquez-Ponce,
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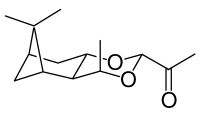
Tetrahedron: Asymmetry *18 (2007) 2727*



De = >98% (NMR)
$[\alpha]_D^{25} = -36.0$ (*c* 0.15, $CHCl_3$)
Source of chirality: (−)-myrtenal
Absolute configuration: (1*S*,2*R*,3*S*,5*R*,7*S*,9*R*)

$C_{14}H_{22}O_3$

(1*S*,2*R*,3*S*,5*R*,7*S*,9*R*)-5-Acetyl-3,10,10-trimethyl-4,6-dioxatricyclo[7.1.1.$0^{2,7}$]undecane

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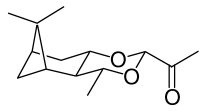
Tetrahedron: Asymmetry *18 (2007) 2727*



De = >98% (NMR)
$[\alpha]_D^{25} = -28.4$ (*c* 0.44, $CHCl_3$)
Source of chirality: (−)-myrtenal
Absolute configuration: (1*S*,2*R*,3*R*,5*R*,7*S*,9*R*)

$C_{14}H_{22}O_3$

(1*S*,2*R*,3*R*,5*R*,7*S*,9*R*)-5-Acetyl-3,10,10-trimethyl-4,6-dioxatricyclo[7.1.1.$0^{2,7}$]undecane

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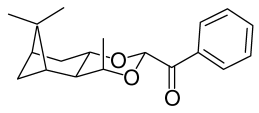
Tetrahedron: Asymmetry *18 (2007) 2727*



De = >98% (NMR)
$[\alpha]_D^{25} = -36.4$ (*c* 0.44, $CHCl_3$)
Source of chirality: (−)-myrtenal
Absolute configuration: (1*S*,2*R*,3*S*,5*R*,7*S*,9*R*)

$C_{19}H_{24}O_3$

(1*S*,2*R*,3*S*,5*R*,7*S*,9*R*)-5-Benzoyl-3,10,10-trimethyl-4,6-dioxatricyclo[7.1.1.$0^{2,7}$]undecane

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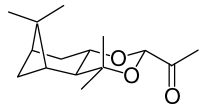
Tetrahedron: Asymmetry *18 (2007) 2727*



De = >98% (NMR)
$[\alpha]_D^{25} = +16.5$ (*c* 0.34, $CHCl_3$)
Source of chirality: (−)-myrtenal
Absolute configuration: (1*S*,2*S*,5*R*,7*S*,9*R*)

$C_{15}H_{24}O_3$

(1*S*,2*S*,5*R*,7*S*,9*R*)-5-Acetyl-3,3,10,10-tetramethyl-4,6-dioxatricyclo[7.1.1.$0^{2,7}$]undecane

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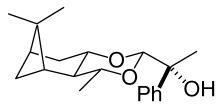
Tetrahedron: Asymmetry *18 (2007) 2727*



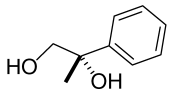
Absolute configuration: (1*S*,2*R*,3*S*,5*R*,7*S*,9*R*,1′*R*)

$C_{20}H_{28}O_3$

(1*S*,2*R*,3*S*,5*R*,7*S*,9*R*,1′*R*)-5-(1′-Hydroxyeth-1′-yl)-3,10,10-trimethyl-4,6-dioxatricyclo[7.1.1.$0^{2,7}$]undecane

Elvia Becerra-Martínez, Pedro Velázquez-Ponce, Miguel A. Sánchez-Aguilar, Alfredo Rodríguez-Hosteguín, Pedro Joseph-Nathan, Joaquín Tamariz and L. Gerardo Zepeda*

Tetrahedron: Asymmetry *18 (2007) 2727*



$C_9H_{12}O_2$

(*S*)-(+)-1,2-Hydroxy-2-phenylpropane

Ee = >70%

$[\alpha]_D^{23} = +4.1$ (*c* 0.18, EtOH)

Source of chirality: asymmetric synthesis

Absolute configuration: (*S*)

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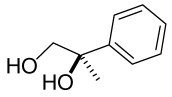
Tetrahedron: Asymmetry *18 (2007) 2727*



$C_9H_{12}O_2$

(*R*)-(−)-1,2-Hydroxy-2-phenylpropane

Ee = >70%

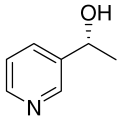
$[\alpha]_D^{23} = -4.3$ (*c* 0.23, EtOH)

Source of chirality: asymmetric synthesis

Absolute configuration: (*R*)

Viatcheslav Stepanenko, Melvin De Jesús, Wildeliz Correa, Irisbel Guzmán, Cindybeth Vázquez, Lymaris Ortiz and Margarita Ortiz-Marciales*

Tetrahedron: Asymmetry *18 (2007) 2738*



C_7H_9NO

(*R*)-1-(3-Pyridyl)ethanol

Ee = 99% (by GC of acetylderivative)

$[\alpha]_D^{23} = +54.3$ (*c* 4.0 $CHCl_3$)

Source of chirality: from catalyst **5** derived from (*S*)-2-[(1,3,2-dioxaborolan-2-yloxy)diphenylmethyl]-pyrrolidine

Absolute configuration: (*R*)

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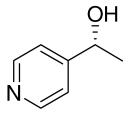
Tetrahedron: Asymmetry *18 (2007) 2738*



C_7H_9NO

(*R*)-1-(4-Pyridyl)ethanol

Ee = 99% (by GC of acetyl derivative)

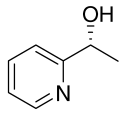
$[\alpha]_D^{23} = +49.0$ (*c* 2.5, $CHCl_3$)

Source of chirality: from catalyst (*S*)-2-[(1,3,2-dioxaborolan-2-yloxy)diphenylmethyl]-pyrrolidine **5**

Absolute configuration: (*R*)

Viatcheslav Stepanenko, Melvin De Jesús, Wildeliz Correa, Irisbel Guzmán, Cindybeth Vázquez, Lymaris Ortiz and Margarita Ortiz-Marciales*

Tetrahedron: Asymmetry *18 (2007) 2738*



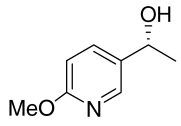
C_7H_9NO

(*R*)-1-(2-Pyridyl)ethanol

Ee = 93% (by GC of acetate derivative)
$[\alpha]_D^{23} = +90.1$ (*c* 2.5, $CHCl_3$) (acetate derivative)
Source of chirality: from catalyst **5** derived from (*S*)-2-[(1,3,2-dioxaborolan-2-yloxy)diphenylmethyl]-pyrrolidine
Absolute configuration: (*R*)

Viatcheslav Stepanenko, Melvin De Jesús, Wildeliz Correa, Irisbel Guzmán, Cindybeth Vázquez, Lymaris Ortiz and Margarita Ortiz-Marciales*

Tetrahedron: Asymmetry *18 (2007) 2738*



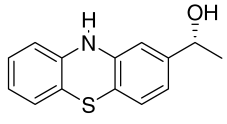
$C_8H_{10}NO_2$

(*R*)-1-(6-Methoxy-pyridin-3-yl)-ethanol

Ee = 98% (by GC of acetyl derivative)
$[\alpha]_D^{23} = +33.7$ (*c* 2.7, $CHCl_3$)
Source of chirality: from catalyst **5** derived from (*S*)-2-[(1,3,2-dioxaborolan-2-yloxy)diphenylmethyl]-pyrrolidine
Absolute configuration: (*R*)

Viatcheslav Stepanenko, Melvin De Jesús, Wildeliz Correa, Irisbel Guzmán, Cindybeth Vázquez, Lymaris Ortiz and Margarita Ortiz-Marciales*

Tetrahedron: Asymmetry *18 (2007) 2738*



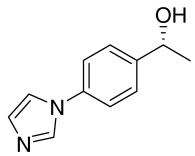
$C_{14}H_{13}NOS$

(*R*)-1-(10*H*-Phenothiazin-2-yl)-ethanol

Ee >99% (by ^{31}P NMR)
$[\alpha]_D^{23} = +24.0$ (*c* 1.0, $CHCl_3$)
Source of chirality: from catalyst **5** derived from (*S*)-2-[(1,3,2-dioxaborolan-2-yloxy)diphenylmethyl]-pyrrolidine
Absolute configuration: (*R*)

Viatcheslav Stepanenko, Melvin De Jesús, Wildeliz Correa, Irisbel Guzmán, Cindybeth Vázquez, Lymaris Ortiz and Margarita Ortiz-Marciales*

Tetrahedron: Asymmetry *18 (2007) 2738*



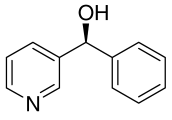
$C_{11}H_{12}N_2O$

(*R*)-4′-(Imidozol-1-yl)-phenyl ethanol

Ee = 92.5% (by ^{31}P NMR)
$[\alpha]_D^{23} = +31.9$ (*c* 4.0, $CHCl_3$)
Source of chirality: from catalyst **5** derived from (*S*)-2-[(1,3,2-dioxaborolan-2-yloxy)diphenylmethyl]-pyrrolidine
Absolute configuration: (*R*)

Viatcheslav Stepanenko, Melvin De Jesús, Wildeliz Correa, Irisbel Guzmán, Cindybeth Vázquez, Lymaris Ortiz and Margarita Ortiz-Marciales*

Tetrahedron: Asymmetry *18 (2007) 2738*



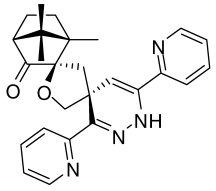
$C_{12}H_{11}NO$

(*S*)-(+)-Phenyl(pyridin-3-yl)methanol

Ee = 83% (by ^{31}P NMR)
$[\alpha]_D^{23} = +12$ (*c* 1.6, $CHCl_3$)
Source of chirality: from catalyst **5** derived from (*S*)-2-[(1,3,2-dioxaborolan-2-yloxy)diphenylmethyl]-pyrrolidine
Absolute configuration: (*S*)

Uroš Grošelj, Anton Meden, Branko Stanovnik and Jurij Svete*

Tetrahedron: Asymmetry *18 (2007) 2746*



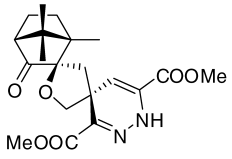
$C_{26}H_{28}N_4O_2$

(6*R*,9*R*,11*R*,14*S*)-1,4-Bis(pyridin-2-yl)-11:14-isopropylidene-14-methyl-2,3-diaza-8-oxadispiro[5.1.5.2]pentadeca-1,4-dien-10-one

De = 100%
$[\alpha]_{589}^{25} = +64.0$ (*c* 0.17, $CHCl_3$)
Source of chirality: (1*S*)-(+)-camphorquinone
Absolute configuration: (6*S*,9*R*,11*R*,14*S*)

Uroš Grošelj, Anton Meden, Branko Stanovnik and Jurij Svete*

Tetrahedron: Asymmetry *18 (2007) 2746*



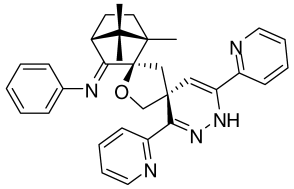
$C_{20}H_{26}N_2O_6$

Dimethyl (6*R*,9*R*,11*R*,14*S*)-11:14-isopropylidene-14-methyl-10-oxo-2,3-diaza-8-oxadispiro[5.1.5.2]pentadeca-1,4-diene-1,4-dicarboxylate

De = 100%
$[\alpha]_{589}^{25} = +144.9$ (*c* 0.18, $CHCl_3$)
Source of chirality: (1*S*)-(+)-camphorquinone
Absolute configuration: (6*S*,9*R*,11*R*,14*S*)

Uroš Grošelj, Anton Meden, Branko Stanovnik and Jurij Svete*

Tetrahedron: Asymmetry *18 (2007) 2746*



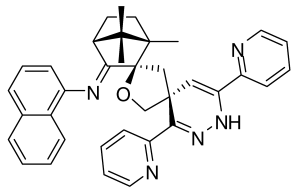
$C_{32}H_{33}N_5O$

(*E*)-*N*-[(6*R*,9*R*,11*R*,14*S*)-1,4-Bis(pyridin-2-yl)-11:14-isopropylidene-14-methyl-2,3-diaza-8-oxadispiro[5.1.5.2]pentadeca-1,4-dien-10-ylidene]aniline

De = 100%
$[\alpha]_D^{26} = +38.8$ (*c* 0.10, $CHCl_3$)
Source of chirality: (1*S*)-(+)-camphorquinone
Absolute configuration: (6*S*,9*R*,10*E*,11*R*,14*S*)

Uroš Grošelj, Anton Meden, Branko Stanovnik and Jurij Svete*

Tetrahedron: Asymmetry *18 (2007) 2746*



De = 100%
$[\alpha]_D^{23} = 0$ (*c* 0.12, $CHCl_3$)
Source of chirality: (1*S*)-(+)-camphorquinone
Absolute configuration: (6*S*,9*R*,10*E*,11*R*,14*S*)

$C_{36}H_{35}N_5O$

(*E*)-*N*-[(6*R*,9*R*,11*R*,14*S*)-1,4-Bis(pyridin-2-yl)-11:14-isopropylidene-14-methyl-2,3-diaza-8-oxadispiro[5.1.5.2]pentadeca-1,4-dien-10-ylidene]-*N*-(naphth-1-yl)amine

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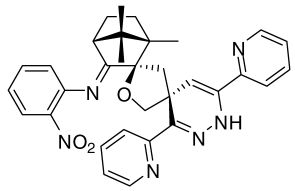
Tetrahedron: Asymmetry *18 (2007) 2746*



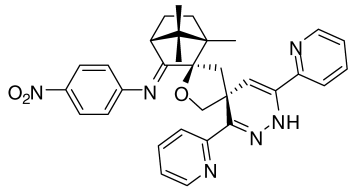
De = 100%
$[\alpha]_{589}^{27} = +25.0$ (*c* 0.24, $CHCl_3$)
Source of chirality: (1*S*)-(+)-camphorquinone
Absolute configuration: (6*S*,9*R*,10*E*,11*R*,14*S*)

$C_{32}H_{32}N_6O_3$

(*E*)-2-Nitro-*N*-[(6*R*,9*R*,11*R*,14*S*)-1,4-bis(pyridin-2-yl)-11:14-isopropylidene-14-methyl-2,3-diaza-8-oxadispiro[5.1.5.2]pentadeca-1,4-dien-10-ylidene]aniline

Uroš Grošelj, Anton Meden, Branko Stanovnik and Jurij Svete*

Tetrahedron: Asymmetry *18 (2007) 2746*



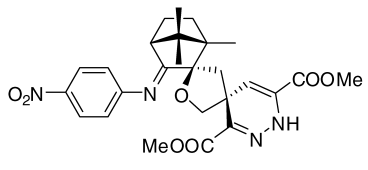
De = 100%
$[\alpha]_D^{23} = +116.2$ (*c* 0.15, $CHCl_3$)
Source of chirality: (1*S*)-(+)-camphorquinone
Absolute configuration: (6*S*,9*R*,10*E*,11*R*,14*S*)

$C_{32}H_{32}N_6O_3$

(*E*)-4-Nitro-*N*-[(6*R*,9*R*,11*R*,14*S*)-1,4-bis(pyridin-2-yl)-11:14-isopropylidene-14-methyl-2,3-diaza-8-oxadispiro[5.1.5.2]pentadeca-1,4-dien-10-ylidene]aniline

Uroš Grošelj, Anton Meden, Branko Stanovnik and Jurij Svete*

Tetrahedron: Asymmetry *18 (2007) 2746*



De = 100%
$[\alpha]_{589}^{21} = +214.7$ (*c* 0.03, $CHCl_3$)
Source of chirality: (1*S*)-(+)-camphorquinone
Absolute configuration: (6*S*,9*R*,10*E*,11*R*,14*S*)

$C_{26}H_{30}N_4O_7$

(*E*)-4-Nitro-*N*-[(6*R*,9*R*,11*R*,14*S*)-1,4-bis(methoxycarbonyl)-11:14-isopropylidene-14-methyl-2,3-diaza-8-oxadispiro[5.1.5.2]pentadeca-1,4-dien-10-ylidene]aniline

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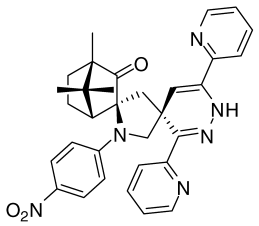
Tetrahedron: Asymmetry *18 (2007) 2746*



De = 50%
$[\alpha]_D^{23} = -327.9$ (*c* 0.14, $CHCl_3$)
Source of chirality: (1*S*)-(+)-camphorquinone
Absolute configuration: (6*S*,9*S*,11*S*,14*R*)

$C_{32}H_{32}N_6O_3$

(6*R*,9*S*,11*S*,14*R*)-1,4-Bis(pyridin-2-yl)-11:14-isopropylidene-11-methyl-8-(4-nitrophenyl)-2,3,8-triazadispiro[5.1.5.2]pentadeca-1,4-dien-10-one

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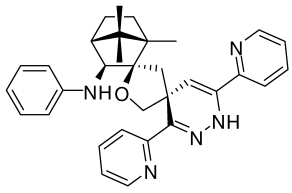

De = 100%
$[\alpha]_{589}^{23} = +189.4$ (*c* 0.1, $CHCl_3$)
Source of chirality: (1*S*)-(+)-camphorquinone
Absolute configuration: (6*S*,9*R*,10*S*,11*R*,14*S*)

$C_{32}H_{35}N_5O$

(6*R*,9*R*,10*S*,11*R*,14*S*)-10-Anilino-1,4-bis(pyridin-2-yl)-11:14-isopropylidene-14-methyl-2,3-diaza-8-oxadispiro[5.1.5.2]pentadeca-1,4-diene

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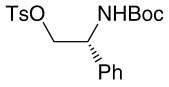
Tetrahedron: Asymmetry *18 (2007) 2758*

$[\alpha]_D^{23} = -2.2$ (*c* 2.03, $CHCl_3$)
Source of chirality: (*R*)-(−)-2-phenylglycinol
Absolute configuration: (2*R*)



$C_{20}H_{25}NO_5S$

(2*R*)-2-[(*tert*-Butoxycarbonyl)amino]-2-phenylethyl 4-methylbenzenesulfonate

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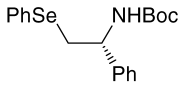
$[\alpha]_D^{22} = -32.8$ (*c* 2.14, $CHCl_3$)
Source of chirality: (*R*)-(−)-2-phenylglycinol
Absolute configuration: (1*R*)



$C_{19}H_{23}NO_2Se$

tert-Butyl [(1*R*)-1-phenyl-2-(phenylseleno)ethyl]carbamate

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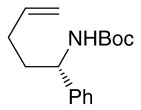

$C_{16}H_{23}NO_2$

tert-Butyl [(1*S*)-1-phenylpent-4-en-1-yl]carbamate

$[\alpha]_D^{22} = -41.4$ (*c* 1.99, $CHCl_3$)
Source of chirality: (*R*)-(−)-2-phenylglycinol
Absolute configuration: (1*S*)

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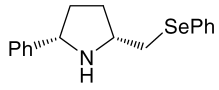

$C_{17}H_{19}NSe$

(2*S*,5*R*)-2-Phenyl-5-[(phenylseleno)methyl]pyrrolidine

$[\alpha]_D^{21} = -89.1$ (*c* 2.86, $CHCl_3$)
Source of chirality: (*R*)-(−)-2-phenylglycinol
Absolute configuration: (2*S*,5*R*)

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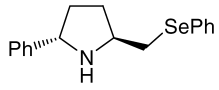

$C_{17}H_{19}NSe$

(2*S*,5*S*)-2-Phenyl-5-[(phenylseleno)methyl]pyrrolidine

$[\alpha]_D^{22} = +1.4$ (*c* 2.34, $CHCl_3$)
Source of chirality: (*R*)-(−)-2-phenylglycinol
Absolute configuration: (2*S*,5*S*)

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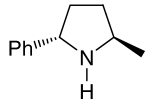

$C_{11}H_{15}N$

(2*R*,5*S*)-2-Methyl-5-phenylpyrrolidine

$[\alpha]_D^{25} = -19.8$ (*c* 0.92, CH_2Cl_2)
Source of chirality: (*R*)-(−)-2-phenylglycinol
Absolute configuration: (2*R*,5*S*)

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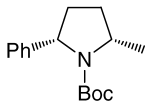
$[\alpha]_D^{23} = -35.9$ (*c* 1.53, CH_2Cl_2)
Source of chirality: (*R*)-(−)-2-phenylglycinol
Absolute configuration: (2*S*,5*S*)



$C_{16}H_{23}NO_2$
tert-Butyl (2*S*,5*S*)-2-methyl-5-phenylpyrrolidine-1-carboxylate

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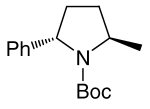
Tetrahedron: Asymmetry *18 (2007) 2758*

$[\alpha]_D^{28} = -92.0$ (*c* 2.69, $CHCl_3$)
Source of chirality: (*R*)-(−)-2-phenylglycinol
Absolute configuration: (2*R*,5*S*)



$C_{16}H_{23}NO_2$
tert-Butyl (2*R*,5*S*)-2-methyl-5-phenylpyrrolidine-1-carboxylate

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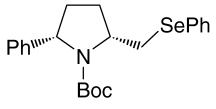
Tetrahedron: Asymmetry *18 (2007) 2758*

$[\alpha]_D^{22} = -23.2$ (*c* 2.14, $CHCl_3$)
Source of chirality: (*R*)-(−)-2-phenylglycinol
Absolute configuration: (2*S*,5*R*)



$C_{22}H_{27}NO_2Se$
tert-Butyl (2*S*,5*R*)-2-phenyl-5-[(phenylseleno)methyl]pyrrolidine-1-carboxylate

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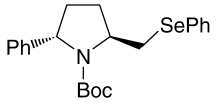
Tetrahedron: Asymmetry *18 (2007) 2758*

$[\alpha]_D^{20} = -78.8$ (*c* 2.46, $CHCl_3$)
Source of chirality: (*R*)-(−)-2-phenylglycinol
Absolute configuration: (2*S*,5*S*)



$C_{22}H_{27}NO_2Se$
tert-Butyl (2*S*,5*S*)-2-phenyl-5-[(phenylseleno)methyl]pyrrolidine-1-carboxylate

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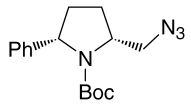
Tetrahedron: Asymmetry *18 (2007) 2758*

$[\alpha]_D^{23} = -37.3$ (*c* 1.78, $CHCl_3$)
Source of chirality: (*R*)-(−)-2-phenylglycinol
Absolute configuration: (2*R*,5*S*)



$C_{16}H_{22}N_4O_2$

tert-Butyl (2*R*,5*S*)-2-(azidomethyl)-5-phenylpyrrolidine-1-carboxylate

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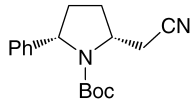
Tetrahedron: Asymmetry *18 (2007) 2758*

$[\alpha]_D^{26} = +12.5$ (*c* 2.10, $CHCl_3$)
Source of chirality: (*R*)-(−)-2-phenylglycinol
Absolute configuration: (2*R*,5*S*)



$C_{17}H_{22}N_2O_2$

tert-Butyl (2*R*,5*S*)-2-(2-cyanomethyl)-5-phenylpyrrolidine-1-carboxylate

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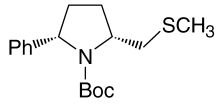
$[\alpha]_D^{29} = -19.6$ (*c* 1.65, $CHCl_3$)
Source of chirality: (*R*)-(−)-2-phenylglycinol
Absolute configuration: (2*R*,5*S*)



$C_{17}H_{25}NO_2S$

tert-Butyl (2*R*,5*S*)-2-[(methylthio)methyl]-5-phenylpyrrolidine-1-carboxylate

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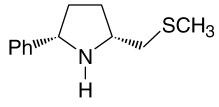
$[\alpha]_D^{29} = -69.9$ (*c* 0.69, $CHCl_3$)
Source of chirality: (*R*)-(−)-2-phenylglycinol
Absolute configuration: (2*R*,5*S*)



$C_{12}H_{17}NS$

(2*R*,5*S*)-2-[(Methylthio)methyl]-5-phenylpyrrolidine

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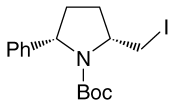

$C_{16}H_{22}INO_2$

tert-Butyl (2*R*,5*S*)-2-(iodomethyl)-5-phenylpyrrolidine-1-carboxylate

$[\alpha]_D^{26} = -25.2$ (*c* 1.60, $CHCl_3$)
Source of chirality: (*R*)-(−)-2-phenylglycinol
Absolute configuration: (2*R*,5*S*)

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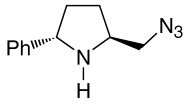

$C_{11}H_{14}N_4$

(2*S*,5*S*)-2-(Azidomethyl)-5-phenylpyrrolidine

$[\alpha]_D^{23} = -31.0$ (*c* 1.87, $CHCl_3$)
Source of chirality: (*R*)-(−)-2-phenylglycinol
Absolute configuration: (2*S*,5*S*)

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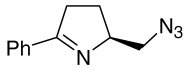
Tetrahedron: Asymmetry *18 (2007) 2758*



$C_{11}H_{12}N_4$

(2*S*)-2-(Azidomethyl)-5-phenyl-3,4-dihydro-2*H*-pyrrole

$[\alpha]_D^{24} = +38.4$ (*c* 0.69, $CHCl_3$)
Source of chirality: (*R*)-(−)-2-phenylglycinol
Absolute configuration: (2*S*)

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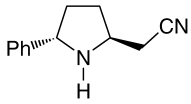

$C_{12}H_{14}N_2$

[(2*S*,5*S*)-5-Phenylpyrrolidin-2-yl]acetonitrile

$[\alpha]_D^{25} = -20.3$ (*c* 0.60, $CHCl_3$)
Source of chirality: (*R*)-(−)-2-phenylglycinol
Absolute configuration: (2*S*,5*S*)

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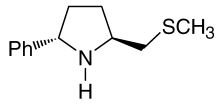


$C_{12}H_{17}NS$

(2*S*,5*S*)-2-[(Methylthio)methyl]-5-phenylpyrrolidine

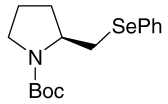
$[\alpha]_D^{28} = +26.6$ (*c* 1.37, $CHCl_3$)

Source of chirality: (*R*)-(−)-2-phenylglycinol

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

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

Tetrahedron: Asymmetry *18 (2007) 2758*



$C_{16}H_{23}NO_2Se$

tert-Butyl (2*S*)-2-[(phenylseleno)methyl]pyrrolidine-1-carboxylate

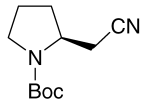
$[\alpha]_D^{23} = -16.9$ (*c* 2.14, $CHCl_3$)

Source of chirality: *tert*-butyl (2*S*)-2-(hydroxymethyl)pyrrolidine-1-carboxylate

Absolute configuration: (2*S*)

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

Tetrahedron: Asymmetry *18 (2007) 2758*



$C_{11}H_{18}N_2O_2$

tert-Butyl (2*S*)-2-(cyanomethyl)pyrrolidine-1-carboxylate

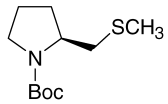
$[\alpha]_D^{22} = -87.7$ (*c* 1.83, $CHCl_3$)

Source of chirality: *tert*-butyl (2*S*)-2-(hydroxymethyl)pyrrolidine-1-carboxylate

Absolute configuration: (2*S*)

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

Tetrahedron: Asymmetry *18 (2007) 2758*



$C_{11}H_{21}NO_2S$

tert-Butyl (2*S*)-2-[(methylthio)methyl]pyrrolidine-1-carboxylate

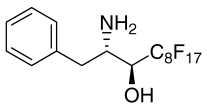
$[\alpha]_D^{20} = -51.7$ (*c* 1.90, $CHCl_3$)

Source of chirality: *tert*-butyl (2*S*)-2-(hydroxymethyl)pyrrolidine-1-carboxylate

Absolute configuration: (2*S*)

Masaaki Omote, Yusuke Eto, Atsushi Tarui, Kazuyuki Sato and Akira Ando*

Tetrahedron: Asymmetry *18 (2007) 2768*



$C_{17}H_{12}F_{17}NO$

(2*S*,3*S*)-2-Amino-4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,11-heptadecafluoro-1-phenyl-undecan-3-ol

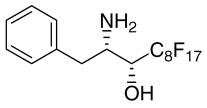
$[\alpha]_D^{24} = -3.7$ (*c* 1.04, $CHCl_3$)

Source of chirality: *N*-(*tert*-butoxycarbonyl)-L-phenylalanine methyl ester

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

Masaaki Omote, Yusuke Eto, Atsushi Tarui, Kazuyuki Sato and Akira Ando*

Tetrahedron: Asymmetry *18 (2007) 2768*



$C_{17}H_{12}F_{17}NO$

(2*S*,3*R*)-2-Amino-4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,11-heptadecafluoro-1-phenyl-undecan-3-ol

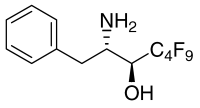
$[\alpha]_D^{24} = -72.5$ (*c* 1.00, $CHCl_3$)

Source of chirality: *N*-(*tert*-butoxycarbonyl)-L-phenylalanine methyl ester

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

Masaaki Omote, Yusuke Eto, Atsushi Tarui, Kazuyuki Sato and Akira Ando*

Tetrahedron: Asymmetry *18 (2007) 2768*



$C_{13}H_{12}F_9NO$

(2*S*,3*S*)-2-Amino-4,4,5,5,6,6,7,7,7-nonafluoro-1-phenylheptan-3-ol

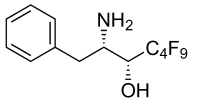
$[\alpha]_D^{24} = -3.7$ (*c* 1.05, $CHCl_3$)

Source of chirality: *N*-(*tert*-butoxycarbonyl)-L-phenylalanine methyl ester

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

Masaaki Omote, Yusuke Eto, Atsushi Tarui, Kazuyuki Sato and Akira Ando*

Tetrahedron: Asymmetry *18 (2007) 2768*



$C_{13}H_{12}F_9NO$

(2*S*,3*R*)-2-Amino-4,4,5,5,6,6,7,7,7-nonafluoro-1-phenylheptan-3-ol

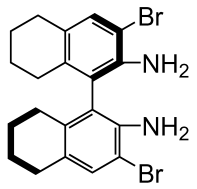
$[\alpha]_D^{24} = -12.9$ (*c* 1.01, $CHCl_3$)

Source of chirality: *N*-(*tert*-butoxycarbonyl)-L-phenylalanine methyl ester

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

Xu-Guang Liu, Jia-Jun Jiang and Min Shi*

Tetrahedron: Asymmetry *18 (2007) 2773*



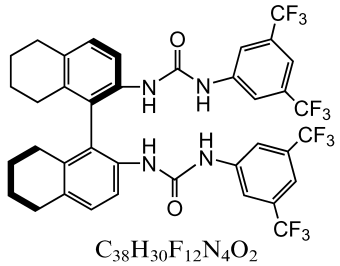
Ee = 100%
$[\alpha]_D^{20} = +40.0$ (*c* 0.94, $CHCl_3$)
Source of chirality: resolution
Absolute configuration: (*R*)

$C_{20}H_{22}Br_2N_2$

(*R*)-3,3′-Dibromo-5,6,7,8,5′,6′,7′,8′-octahydro[1,1′]binaphthalenyl-2,2′-diamine

Xu-Guang Liu, Jia-Jun Jiang and Min Shi*

Tetrahedron: Asymmetry *18 (2007) 2773*



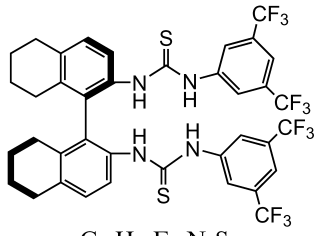
Ee = 100%
$[\alpha]_D^{20} = +48.5$ (*c* 0.50, CH_2Cl_2)
Source of chirality: resolution
Absolute configuration: (*R*)

$C_{38}H_{30}F_{12}N_4O_2$

(*R*)-1-(3,5-Bis-trifluoromethylphenyl)-3-{2′-[3-(3,5-bis-trifluoromethylphenyl)ureido]-5,6,7,8,5′,6′,7′,8′-octahydro[1,1′]binaphthalenyl-2-yl}urea

Xu-Guang Liu, Jia-Jun Jiang and Min Shi*

Tetrahedron: Asymmetry *18 (2007) 2773*



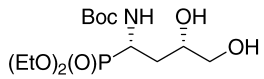
Ee = 100%
$[\alpha]_D^{20} = +209.3$ (*c* 0.50, CH_2Cl_2)
Source of chirality: resolution
Absolute configuration: (*R*)

$C_{38}H_{30}F_{12}N_4S_2$

(*R*)-1-(3,5-Bis-trifluoromethylphenyl)-3-{2′-[3-(3,5-bis-trifluoromethylphenyl)thioureido]-5,6,7,8,5′,6′,7′,8′-octahydro-[1,1′]binaphthalenyl-2-yl}thiourea

Dorota G. Piotrowska* and Iwona E. Głowacka

Tetrahedron: Asymmetry *18 (2007) 2787*



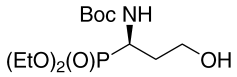
Ee = 100%
$[\alpha]_D^{20} = +2.8$ (*c* 1.2, $CHCl_3$)
Source of chirality: (*S*)-1-phenylethylamine
Absolute configuration: (1*S*,3*S*)

$C_{13}H_{28}NO_7P$

tert-Butyl (1*S*,3*S*)-1-(diethoxyphosphono)-3,4-dihydroxybutylcarbamate

Dorota G. Piotrowska* and Iwona E. Głowacka

Tetrahedron: Asymmetry *18 (2007) 2787*



$C_{12}H_{26}NO_6P$

tert-Butyl (*R*)-1-(diethoxyphosphono)-3-hydroxypropylcarbamate

Ee = 100%

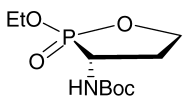
$[\alpha]_D^{20} = -15.3$ (*c* 1.0, $CHCl_3$)

Source of chirality: (*S*)-1-phenylethylamine

Absolute configuration: (1*R*)

Dorota G. Piotrowska* and Iwona E. Głowacka

Tetrahedron: Asymmetry *18 (2007) 2787*



$C_{14}H_{27}N_4O_7P$

tert-Butyl (2*R*,3*R*)-2-ethoxy-2-oxo-1,2-oxaphospholan-3-ylcarbamate

Ee = 100%

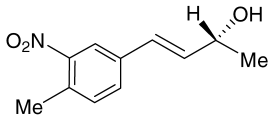
$[\alpha]_D^{20} = +32.6$ (*c* 0.7, $CHCl_3$)

Source of chirality: (*S*)-1-phenylethylamine

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

Simona Sgalla, Giancarlo Fabrizi, Roberto Cirilli, Alberto Macone, Alessandra Bonamore, Alberto Boffi and Sandro Cacchi*

Tetrahedron: Asymmetry *18 (2007) 2791*



$C_{11}H_{13}NO_3$

(2*R*,3*E*)-4-(3-Nitro,4-methylphenyl)-3-buten-2-ol

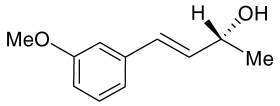
$[\alpha]_D^{20} = +17.0$ (*c* 0.16, MeOH)

Source of chirality: alcohol dehydrogenase-catalyzed reduction

Absolute configuration: (2*R*)

Simona Sgalla, Giancarlo Fabrizi, Roberto Cirilli, Alberto Macone, Alessandra Bonamore, Alberto Boffi and Sandro Cacchi*

Tetrahedron: Asymmetry *18 (2007) 2791*



$C_{11}H_{14}O_2$

(2*R*,3*E*)-4-(3-Methoxyphenyl)-3-buten-2-ol

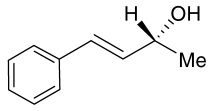
$[\alpha]_D^{20} = +18.6$ (*c* 0.19, MeOH)

Source of chirality: alcohol dehydrogenase-catalyzed reduction

Absolute configuration: (2*R*)

Simona Sgalla, Giancarlo Fabrizi, Roberto Cirilli, Alberto Macone, Alessandra Bonamore, Alberto Boffi and Sandro Cacchi*

Tetrahedron: Asymmetry *18 (2007) 2791*



$C_{10}H_{12}O$

(2*R*,3*E*)-4-Phenyl-3-buten-2-ol

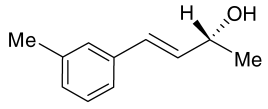
$[\alpha]_D^{20} = +18.3$ (*c* 0.36, MeOH)

Source of chirality: alcohol dehydrogenase-catalyzed reduction

Absolute configuration: (2*R*)

Simona Sgalla, Giancarlo Fabrizi, Roberto Cirilli, Alberto Macone, Alessandra Bonamore, Alberto Boffi and Sandro Cacchi*

Tetrahedron: Asymmetry *18 (2007) 2791*



$C_{11}H_{14}O$

(2*R*,3*E*)-4-(3-Methylphenyl)-3-buten-2-ol

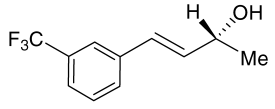
$[\alpha]_D^{20} = +20.5$ (*c* 0.31, MeOH)

Source of chirality: alcohol dehydrogenase-catalyzed reduction

Absolute configuration: (2*R*)

Simona Sgalla, Giancarlo Fabrizi, Roberto Cirilli, Alberto Macone, Alessandra Bonamore, Alberto Boffi and Sandro Cacchi*

Tetrahedron: Asymmetry *18 (2007) 2791*



$C_{11}H_{11}F_3O$

(2*R*,3*E*)-4-(3-Trifluoromethylphenyl)-3-buten-2-ol

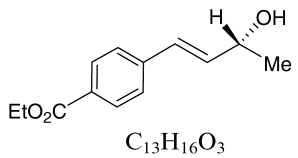
$[\alpha]_D^{20} = +11.3$ (*c* 0.23, MeOH)

Source of chirality: alcohol dehydrogenase-catalyzed reduction

Absolute configuration: (2*R*)

Simona Sgalla, Giancarlo Fabrizi, Roberto Cirilli, Alberto Macone, Alessandra Bonamore, Alberto Boffi and Sandro Cacchi*

Tetrahedron: Asymmetry *18 (2007) 2791*



$C_{13}H_{16}O_3$

(2*R*,3*E*)-4-(4-Ethoxycarbonylphenyl)-3-buten-2-ol

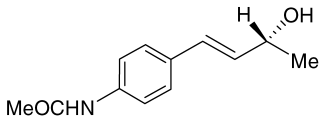
$[\alpha]_D^{20} = +16.0$ (*c* 0.12, MeOH)

Source of chirality: alcohol dehydrogenase-catalyzed reduction

Absolute configuration: (2*R*)

Simona Sgalla, Giancarlo Fabrizi, Roberto Cirilli, Alberto Macone, Alessandra Bonamore, Alberto Boffi and Sandro Cacchi*

Tetrahedron: Asymmetry *18 (2007) 2791*



$C_{12}H_{15}NO_2$

(2*R*,3*E*)-4-(4-Acetamidophenyl)-3-buten-2-ol

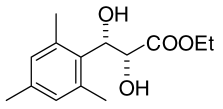
$[\alpha]_D^{20} = +31.0$ (*c* 0.11, MeOH)

Source of chirality: alcohol dehydrogenase-catalyzed reduction

Absolute configuration: (2*R*)

Rosario Ramón, Mònica Alonso and Antoni Riera*

Tetrahedron: Asymmetry *18 (2007) 2797*



$C_{14}H_{20}O_4$

Ethyl (2*R*,3*S*)-dihydroxy-3-mesitylpropanoate

Ee = 99.9% (HPLC)

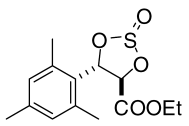
$[\alpha]_D = -24.7$ (*c* 0.98, $CHCl_3$)

Source of chirality: Sharpless asymmetric dihydroxylation $(DHQ)_2PHAL$

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

Rosario Ramón, Mònica Alonso and Antoni Riera*

Tetrahedron: Asymmetry *18 (2007) 2797*



$C_{14}H_{18}O_5S$

(4*R*,5*S*)-4-Ethoxycarbonyl-5-mesityl-1,3,2-dioxathiolane-2-oxide

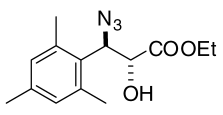
$[\alpha]_D = -18.8$ (*c* 1.00, $CHCl_3$)

Source of chirality: Sharpless asymmetric dihydroxylation $(DHQ)_2PHAL$

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

Rosario Ramón, Mònica Alonso and Antoni Riera*

Tetrahedron: Asymmetry *18 (2007) 2797*



$C_{14}H_{19}N_3O_3$

Ethyl (2*S*,3*S*)-3-azido-2-hydroxy-3-mesitylpropanoate

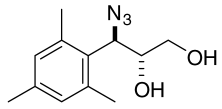
$[\alpha]_D = -126$ (*c* 0.80, $CHCl_3$)

Source of chirality: Sharpless asymmetric dihydroxylation $(DHQ)_2PHAL$

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

Rosario Ramón, Mònica Alonso and Antoni Riera*

Tetrahedron: Asymmetry *18 (2007) 2797*



$C_{12}H_{17}N_3O_2$

(2*R*,3*R*)-3-Azido-3-mesitylpropane-1,2-diol

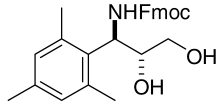
$[\alpha]_D = -183$ (*c* 1.00, $CHCl_3$)

Source of chirality: Sharpless asymmetric dihydroxylation $(DHQ)_2PHAL$

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

Rosario Ramón, Mònica Alonso and Antoni Riera*

Tetrahedron: Asymmetry *18 (2007) 2797*



$C_{27}H_{29}NO_4$

(2*R*,3*R*)-3-Fmoc-amino-3-mesitylpropan-1,2-diol

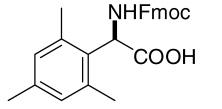
$[\alpha]_D = -14.5$ (*c* 1.02, $CHCl_3$)

Source of chirality: Sharpless asymmetric dihydroxylation $(DHQ)_2PHAL$

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

Rosario Ramón, Mònica Alonso and Antoni Riera*

Tetrahedron: Asymmetry *18 (2007) 2797*



$C_{26}H_{25}NO_4$

Fmoc-D-mesitylglycine

Ee = 99% (HPLC)

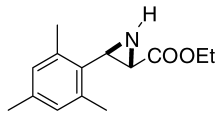
$[\alpha]_D = -62.9$ (*c* 0.80, $CHCl_3$)

Source of chirality: Sharpless asymmetric dihydroxylation $(DHQ)_2PHAL$

Absolute configuration: (2*R*)

Rosario Ramón, Mònica Alonso and Antoni Riera*

Tetrahedron: Asymmetry *18 (2007) 2797*



$C_{14}H_{19}NO_2$

Ethyl (2*R*,3*S*)-3-mesityl-aziridine-2-carboxylate

Ee = 99% (HPLC)

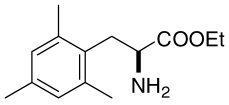
$[\alpha]_D = -131$ (*c* 0.79, $CHCl_3$)

Source of chirality: Sharpless asymmetric dihydroxylation $(DHQ)_2PHAL$

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

Rosario Ramón, Mònica Alonso and Antoni Riera*

Tetrahedron: Asymmetry *18 (2007) 2797*



$C_{14}H_{21}NO_2$

(2*S*)-Mesitylalanine ethyl ester

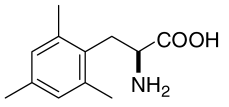
$[\alpha]_D = -26.7$ (*c* 1.00, $CHCl_3$)

Source of chirality: Sharpless asymmetric dihydroxylation $(DHQ)_2PHAL$

Absolute configuration: (2*S*)

Rosario Ramón, Mònica Alonso and Antoni Riera*

Tetrahedron: Asymmetry *18 (2007) 2797*



$C_{12}H_{17}NO_2$

(2*S*)-Mesitylalanine

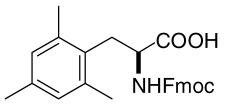
$[\alpha]_D = -80$ (*c* 1.00, CH_3OH)

Source of chirality: Sharpless asymmetric dihydroxylation $(DHQ)_2PHAL$

Absolute configuration: (2*S*)

Rosario Ramón, Mònica Alonso and Antoni Riera*

Tetrahedron: Asymmetry *18 (2007) 2797*



$C_{27}H_{27}NO_4$

Fmoc-L-mesitylalanine

Ee = 99% (HPLC)

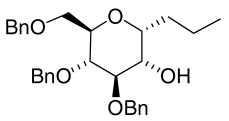
$[\alpha]_D = -26.0$ (*c* 1.00, $CHCl_3$)

Source of chirality: Sharpless asymmetric dihydroxylation $(DHQ)_2PHAL$

Absolute configuration: (2*S*)

Carlos Mayato, Rosa L. Dorta and Jesús T. Vázquez*

Tetrahedron: Asymmetry *18 (2007) 2803*



$C_{30}H_{36}O_5$

2,6-Anhydro-1,3,4-tri-*O*-benzyl-7,8,9-trideoxy-D-*glycero*-L-*gulo*-nonitol

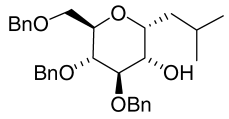
$[\alpha]_D = +29.5$ (*c* 1.0, $CHCl_3$)

Source of chirality: D-(+)-glucal

Carlos Mayato, Rosa L. Dorta and Jesús T. Vázquez*

Tetrahedron: Asymmetry *18 (2007) 2803*

$[\alpha]_D = +22.2$ (*c* 1.4, $CHCl_3$)
Source of chirality: D-(+)-glucal



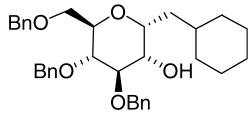
$C_{31}H_{38}O_5$

2,6-Anhydro-1,3,4-tri-*O*-benzyl-7,8,9-trideoxy-8-methyl-D-*glycero*-L-*gulo*-nonitol

Carlos Mayato, Rosa L. Dorta and Jesús T. Vázquez*

Tetrahedron: Asymmetry *18 (2007) 2803*

$[\alpha]_D = +26.9$ (*c* 1.0, $CHCl_3$)
Source of chirality: D-(+)-glucal



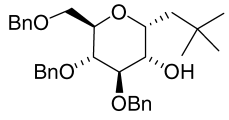
$C_{34}H_{42}O_5$

2,6-Anhydro-1,3,4-tri-*O*-benzyl-7-cyclohexyl-7-deoxy-D-*glycero*-L-*gulo*-heptitol

Carlos Mayato, Rosa L. Dorta and Jesús T. Vázquez*

Tetrahedron: Asymmetry *18 (2007) 2803*

$[\alpha]_D = +24.2$ (*c* 2.2, $CHCl_3$)
Source of chirality: D-(+)-glucal



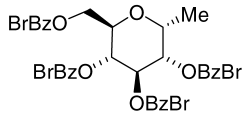
$C_{32}H_{40}O_5$

2,6-Anhydro-1,3,4-tri-*O*-benzyl-7,8,9-trideoxy-8,8-dimethyl-D-*glycero*-L-*gulo*-nonitol

Carlos Mayato, Rosa L. Dorta and Jesús T. Vázquez*

Tetrahedron: Asymmetry *18 (2007) 2803*

$[\alpha]_D = +49.6$ (*c* 1.0, $CHCl_3$)
Source of chirality: D-(+)-glucal



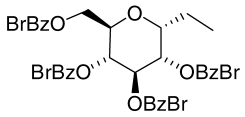
$C_{35}H_{26}Br_4O_9$

2,6-Anhydro-1,3,4,5-tetra-*O*-(*p*-bromobenzoyl)-7-deoxy-D-*glycero*-L-*gulo*-heptitol

Carlos Mayato, Rosa L. Dorta and Jesús T. Vázquez*

Tetrahedron: Asymmetry *18 (2007) 2803*

$[\alpha]_D = +29.3$ (*c* 0.9, $CHCl_3$)
Source of chirality: D-(+)-glucal



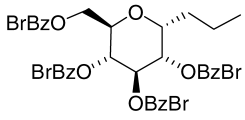
$C_{36}H_{28}Br_4O_9$

2,6-Anhydro-1,3,4,5-tetra-*O*-(*p*-bromobenzoyl)-7,8-dideoxy-D-*glycero*-L-*gulo*-octitol

Carlos Mayato, Rosa L. Dorta and Jesús T. Vázquez*

Tetrahedron: Asymmetry *18 (2007) 2803*

$[\alpha]_D = +37.5$ (*c* 1.0, $CHCl_3$)
Source of chirality: D-(+)-glucal



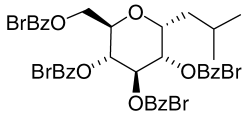
$C_{37}H_{30}Br_4O_9$

2,6-Anhydro-1,3,4,5-tetra-*O*-(*p*-bromobenzoyl)-7,8,9-trideoxy-D-*glycero*-L-*gulo*-nonitol

Carlos Mayato, Rosa L. Dorta and Jesús T. Vázquez*

Tetrahedron: Asymmetry *18 (2007) 2803*

$[\alpha]_D = +32.3$ (*c* 1.4, $CHCl_3$)
Source of chirality: D-(+)-glucal



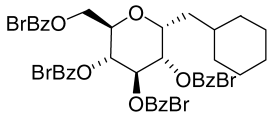
$C_{38}H_{32}Br_4O_9$

2,6-Anhydro-1,3,4,5-tetra-*O*-(*p*-bromobenzoyl)-7,8,9-trideoxy-8-methyl-D-*glycero*-L-*gulo*-nonitol

Carlos Mayato, Rosa L. Dorta and Jesús T. Vázquez*

Tetrahedron: Asymmetry *18 (2007) 2803*

$[\alpha]_D = +26.7$ (*c* 0.8, $CHCl_3$)
Source of chirality: D-(+)-glucal



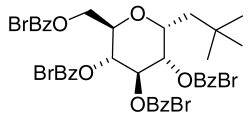
$C_{41}H_{36}Br_4O_9$

2,6-Anhydro-1,3,4,5-tetra-*O*-(*p*-bromobenzoyl)-7-cyclohexyl-7-deoxy-D-*glycero*-L-*gulo*-heptitol

Carlos Mayato, Rosa L. Dorta and Jesús T. Vázquez*

Tetrahedron: Asymmetry *18 (2007) 2803*

$[\alpha]_D = +23.6$ (c 0.8, $CHCl_3$)
Source of chirality: D-(+)-glucal

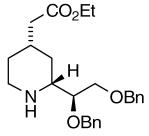


$C_{39}H_{34}Br_4O_9$
2,6-Anhydro-1,3,4,5-tetra-*O*-(*p*-bromobenzoyl)-7,8,9-trideoxy-8,8-dimethyl-D-*glycero*-L-*gulo*-nonitol

Pablo Etayo, Ramón Badorrey, María D. Díaz-de-Villegas* and José A. Gálvez*

Tetrahedron: Asymmetry *18 (2007) 2812*

$[\alpha]_D^{25} = -7.2$ (c 1.14, $CHCl_3$)
Source of chirality: diastereoselective synthesis
Absolute configuration: (2*R*,4*S*,1′*S*)

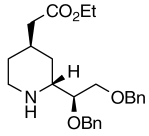


$C_{25}H_{33}NO_4$
(2*R*,4*S*)-2-[(*S*)-1,2-Dibenzyloxyethyl]-4-ethoxycarbonylmethylpiperidine

Pablo Etayo, Ramón Badorrey, María D. Díaz-de-Villegas* and José A. Gálvez*

Tetrahedron: Asymmetry *18 (2007) 2812*

$[\alpha]_D^{25} = -17.2$ (c 0.97, $CHCl_3$)
Source of chirality: diastereoselective synthesis
Absolute configuration: (2*R*,4*R*,1′*S*)

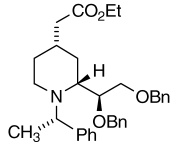


$C_{25}H_{33}NO_4$
(2*R*,4*R*)-2-[(*S*)-1,2-Dibenzyloxyethyl]-4-ethoxycarbonylmethylpiperidine

Pablo Etayo, Ramón Badorrey, María D. Díaz-de-Villegas* and José A. Gálvez*

Tetrahedron: Asymmetry *18 (2007) 2812*

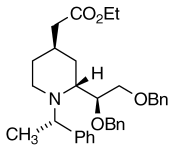
$[\alpha]_D^{25} = +10.3$ (c 0.52, $CHCl_3$)
Source of chirality: diastereoselective synthesis
Absolute configuration: (2*R*,4*S*,1′*S*,1″*S*)



$C_{33}H_{41}NO_4$
(2*R*,4*S*)-2-[(*S*)-1,2-Dibenzyloxyethyl]-4-ethoxycarbonylmethyl-1-[(*S*)-1-phenylethyl]piperidine

Pablo Etayo, Ramón Badorrey, María D. Díaz-de-Villegas* and José A. Gálvez*

Tetrahedron: Asymmetry *18 (2007) 2812*



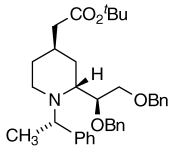
$[\alpha]_D^{25} = -23.2$ (c 0.81, $CHCl_3$)
Source of chirality: diastereoselective synthesis
Absolute configuration: (2*R*,4*R*,1′*S*,1″*S*)

$C_{33}H_{41}NO_4$

(2*R*,4*R*)-2-[(*S*)-1,2-Dibenzyloxyethyl]-4-ethoxycarbonylmethyl-1-[(*S*)-1-phenylethyl]piperidine

Pablo Etayo, Ramón Badorrey, María D. Díaz-de-Villegas* and José A. Gálvez*

Tetrahedron: Asymmetry *18 (2007) 2812*



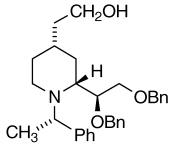
$[\alpha]_D^{25} = -25.2$ (c 0.86, $CHCl_3$)
Source of chirality: diastereoselective synthesis
Absolute configuration: (2*R*,4*R*,1′*S*,1″*S*)

$C_{35}H_{45}NO_4$

(2*R*,4*R*)-4-*tert*-Butoxycarbonylmethyl-2-[(*S*)-1,2-dibenzyloxyethyl]-1-[(*S*)-1-phenylethyl]piperidine

Pablo Etayo, Ramón Badorrey, María D. Díaz-de-Villegas* and José A. Gálvez*

Tetrahedron: Asymmetry *18 (2007) 2812*



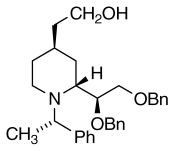
$[\alpha]_D^{25} = +1.4$ (c 0.86, $CHCl_3$)
Source of chirality: diastereoselective synthesis
Absolute configuration: (2*R*,4*S*,1′*S*,1″*S*)

$C_{31}H_{39}NO_3$

(2*R*,4*S*)-2-[(*S*)-1,2-Dibenzyloxyethyl]-4-[2-(hydroxy)ethyl]-1-[(*S*)-1-phenylethyl]piperidine

Pablo Etayo, Ramón Badorrey, María D. Díaz-de-Villegas* and José A. Gálvez*

Tetrahedron: Asymmetry *18 (2007) 2812*



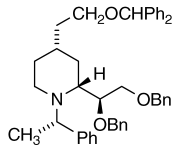
$[\alpha]_D^{25} = -17.7$ (c 0.81, $CHCl_3$)
Source of chirality: diastereoselective synthesis
Absolute configuration: (2*R*,4*R*,1′*S*,1″*S*)

$C_{31}H_{39}NO_3$

(2*R*,4*R*)-2-[(*S*)-1,2-Dibenzyloxyethyl]-4-[(2-hydroxy)ethyl]-1-[(*S*)-1-phenylethyl]piperidine

Pablo Etayo, Ramón Badorrey, María D. Díaz-de-Villegas* and José A. Gálvez*

Tetrahedron: Asymmetry *18 (2007) 2812*



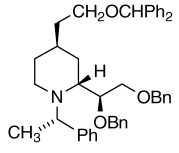
$[\alpha]_D^{25} = +8.8$ (c 1.05, $CHCl_3$)
Source of chirality: diastereoselective synthesis
Absolute configuration: (2*R*,4*S*,1′*S*,1″*S*)

$C_{44}H_{49}NO_3$

(2*R*,4*S*)-2-[(*S*)-1,2-Dibenzyloxyethyl]-4-[2-(diphenylmethoxy)ethyl]-1-[(*S*)-1-phenylethyl]piperidine

Pablo Etayo, Ramón Badorrey, María D. Díaz-de-Villegas* and José A. Gálvez*

Tetrahedron: Asymmetry *18 (2007) 2812*



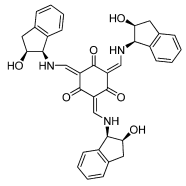
$[\alpha]_D^{25} = -18.1$ (c 0.35, $CHCl_3$)
Source of chirality: diastereoselective synthesis
Absolute configuration: (2*R*,4*S*,1′*S*,1″*S*)

$C_{44}H_{49}NO_3$

(2*R*,4*S*)-2-[(*S*)-1,2-Dibenzyloxyethyl]-4-[(2-hydroxy)ethyl]-1-[(*S*)-1-phenylethyl]piperidine

Paulsamy Suresh, Sankareswaran Srimurugan, Balaji Babu and Hari N. Pati*

Tetrahedron: Asymmetry *18 (2007) 2820*



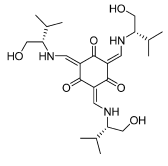
$[\alpha]_D^{25} = +28.5$ (c 0.6, $CHCl_3$)
Source of chirality: (1*R*,2*S*)-1-amino-2,3-dihydro-1*H*-inden-2-ol
Absolute configuration: (1*R*,2*S*)

$C_{36}H_{33}N_3O_6$

(2*E*,4*E*,6*E*)-2,4,6-Tris(((1*R*,2*S*)-2-hydroxy-2,3-dihydro-1*H*-inden-1-ylamino)methylene)cyclohexane-1,3,5-trione

Paulsamy Suresh, Sankareswaran Srimurugan, Balaji Babu and Hari N. Pati*

Tetrahedron: Asymmetry *18 (2007) 2820*



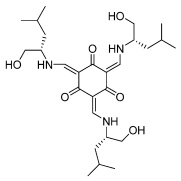
$[\alpha]_D^{25} = -274.8$ (c 0.35, $CHCl_3$)
Source of chirality: (*S*)-2-amino-3-methylbutan-1-ol
Absolute configuration: (*S*)

$C_{24}H_{39}N_3O_6$

(2*E*,4*E*,6*E*)-2,4,6-Tris(((*S*)-1-hydroxy-3-methylbutan-2-ylamino)methylene)cyclohexane-1,3,5-trione

Paulsamy Suresh, Sankareswaran Srimurugan, Balaji Babu and Hari N. Pati*

Tetrahedron: Asymmetry *18 (2007) 2820*

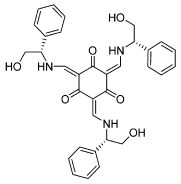


$[\alpha]_D^{25} = -172.6$ (c 0.85, $CHCl_3$)
Source of chirality: (*S*)-2-amino-4-methylpentan-1-ol
Absolute configuration: (*S*)

$C_{27}H_{45}N_3O_6$
(2*E*,4*E*,6*E*)-2,4,6-Tris(((*S*)-1-hydroxy-4-methylpentan-2-ylamino)methylene)cyclohexane-1,3,5-trione

Paulsamy Suresh, Sankareswaran Srimurugan, Balaji Babu and Hari N. Pati*

Tetrahedron: Asymmetry *18 (2007) 2820*

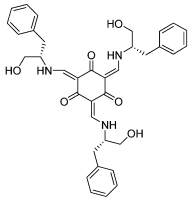


$[\alpha]_D^{25} = +181.2$ (c 0.5, $CHCl_3$)
Source of chirality: (*S*)-2-amino-2-phenylethanol
Absolute configuration: (*S*)

$C_{33}H_{33}N_3O_6$
(2*E*,4*E*,6*E*)-2,4,6-Tris(((*S*)-2-hydroxy-1-phenylethylamino)methylene)cyclohexane-1,3,5-trione

Paulsamy Suresh, Sankareswaran Srimurugan, Balaji Babu and Hari N. Pati*

Tetrahedron: Asymmetry *18 (2007) 2820*

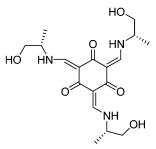


$[\alpha]_D^{25} = -329.9$ (c 0.48, CH_2Cl_2)
Source of chirality: (*S*)-2-amino-3-phenylpropan-1-ol
Absolute configuration: (*S*)

$C_{36}H_{39}N_3O_6$
(2*E*,4*E*,6*E*)-2,4,6-Tris(((*S*)-1-hydroxy-3-phenylpropan-2-ylamino)methylene)cyclohexane-1,3,5-trione

Paulsamy Suresh, Sankareswaran Srimurugan, Balaji Babu and Hari N. Pati*

Tetrahedron: Asymmetry *18 (2007) 2820*

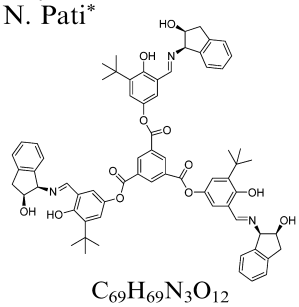


$[\alpha]_D^{25} = -154.2$ (c 0.62, $CHCl_3$)
Source of chirality: (*S*)-2-aminopropan-1-ol
Absolute configuration: (*S*)

$C_{18}H_{27}N_3O_6$
(2*E*,4*E*,6*E*)-2,4,6-Tris(((*S*)-1-hydroxypropan-2-ylamino)methylene)cyclohexane-1,3,5-trione

Paulsamy Suresh, Sankareswaran Srimurugan, Balaji Babu and Hari N. Pati*

Tetrahedron: Asymmetry *18 (2007) 2820*



$C_{69}H_{69}N_3O_{12}$

Tris(3-*tert*-butyl-4-hydroxy-5-((*E*)-((1*R*,2*S*)-2-hydroxy-2,3-dihydro-1*H*-inden-1-ylimino)methyl)phenyl)benzene-1,3,5-tricarboxylate

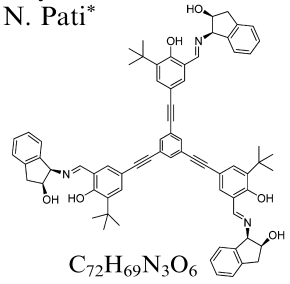
$[\alpha]_D^{25} = +32.3$ (*c* 1.04, $CHCl_3$)

Source of chirality: (1*R*,2*S*)-1-amino-2,3-dihydro-1*H*-inden-2-ol

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

Paulsamy Suresh, Sankareswaran Srimurugan, Balaji Babu and Hari N. Pati*

Tetrahedron: Asymmetry *18 (2007) 2820*



$C_{72}H_{69}N_3O_6$

(1*R*,1′*R*,1″*R*,2*S*,2′*S*,2″*S*)-1,1′,1″-((1*E*,1′*E*,1″*E*)-5,5′,5″-(Benzene-1,3,5-triyltris(ethyne-2,1-diyl))tris(3-*tert*-butyl-2-hydroxybenzene-5,1-diyl)tris(methan-1-yl-1-ylidene)tris(azan-1-yl-1-ylidene))tris(2,3-dihydro-1*H*-inden-2-ol)

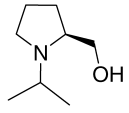
$[\alpha]_D^{25} = -153.4$ (*c* 0.94, $CHCl_3$)

Source of chirality: (1*R*,2*S*)-1-amino-2,3-dihydro-1*H*-inden-2-ol

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

Raquel Almansa, David Guijarro* and Miguel Yus*

Tetrahedron: Asymmetry *18 (2007) 2828*



$C_8H_{17}NO$

[(2*S*)-1-Isopropylpyrrolidin-2-yl]methanol

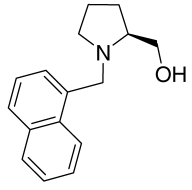
$[\alpha]_D^{20} = -27.2$ (*c* 1.0, $CHCl_3$)

Source of chirality: L-proline

Absolute configuration: (*S*)

Raquel Almansa, David Guijarro* and Miguel Yus*

Tetrahedron: Asymmetry *18 (2007) 2828*



$C_{16}H_{19}NO$

[(2*S*)-1-(1-Naphthylmethyl)pyrrolidin-2-yl]methanol

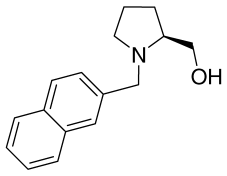
$[\alpha]_D^{20} = -30.6$ (*c* 1.1, $CHCl_3$)

Source of chirality: L-proline

Absolute configuration: (*S*)

Raquel Almansa, David Guijarro* and Miguel Yus*

Tetrahedron: Asymmetry *18 (2007) 2828*



$C_{16}H_{19}NO$

[(2*S*)-1-(2-Naphthylmethyl)pyrrolidin-2-yl]methanol

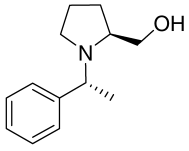
$[\alpha]_D^{20} = -34.4$ (*c* 1.0, $CHCl_3$)

Source of chirality: L-proline

Absolute configuration: (*S*)

Raquel Almansa, David Guijarro* and Miguel Yus*

Tetrahedron: Asymmetry *18 (2007) 2828*



$C_{13}H_{19}NO$

{(2*S*)-1-[(*R*)-1-Phenylethyl]pyrrolidin-2-yl}methanol

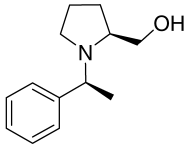
$[\alpha]_D^{20} = +5.0$ (*c* 1.0, $CHCl_3$)

Source of chirality: L-proline

Absolute configuration: (1′*R*,2*S*)

Raquel Almansa, David Guijarro* and Miguel Yus*

Tetrahedron: Asymmetry *18 (2007) 2828*



$C_{13}H_{19}NO$

{(2*S*)-1-[(*S*)-1-Phenylethyl]pyrrolidin-2-yl}methanol

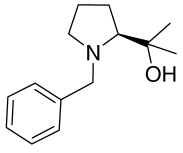
$[\alpha]_D^{20} = -20.0$ (*c* 1.1, $CHCl_3$)

Source of chirality: L-proline

Absolute configuration: (1′*S*,2*S*)

Raquel Almansa, David Guijarro* and Miguel Yus*

Tetrahedron: Asymmetry *18 (2007) 2828*



$C_{14}H_{21}NO$

2-[(2*S*)-1-Benzylpyrrolidin-2-yl]propan-2-ol

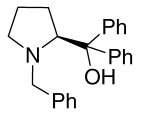
$[\alpha]_D^{20} = -42.1$ (*c* 2.5, CH_2Cl_2)

Source of chirality: *N*-benzyl-L-proline ethyl ester

Absolute configuration: (*S*)

Raquel Almansa, David Guijarro* and Miguel Yus*

Tetrahedron: Asymmetry *18 (2007) 2828*



$C_{24}H_{25}NO$

[(2*S*)-1-Benzylpyrrolidin-2-yl]diphenylmethanol

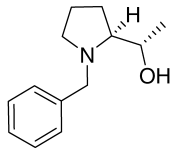
$[\alpha]_D^{20} = +87.5$ (*c* 1.0, $CHCl_3$)

Source of chirality: *N*-benzyl-L-proline ethyl ester

Absolute configuration: (*S*)

Raquel Almansa, David Guijarro* and Miguel Yus*

Tetrahedron: Asymmetry *18 (2007) 2828*



$C_{13}H_{19}NO$

(*S*)-1-[(2*S*)-1-Benzylpyrrolidin-2-yl]ethanol

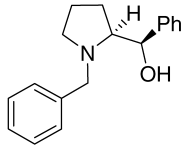
$[\alpha]_D^{20} = -12.6$ (*c* 0.7, $CHCl_3$)

Source of chirality: *N*-benzyl-L-prolinol

Absolute configuration: (1′*S*,2*S*)

Raquel Almansa, David Guijarro* and Miguel Yus*

Tetrahedron: Asymmetry *18 (2007) 2828*



$C_{18}H_{21}NO$

(*R*)-[(2*S*)-1-Benzylpyrrolidin-2-yl](phenyl)methanol

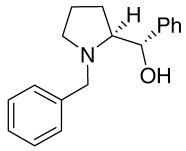
$[\alpha]_D^{20} = -69.2$ (*c* 1.3, $CHCl_3$)

Source of chirality: *N*-benzyl-L-prolinol

Absolute configuration: (1′*R*,2*S*)

Raquel Almansa, David Guijarro* and Miguel Yus*

Tetrahedron: Asymmetry *18 (2007) 2828*



$C_{18}H_{21}NO$

(*S*)-[(2*S*)-1-Benzylpyrrolidin-2-yl](phenyl)methanol

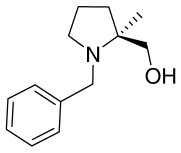
$[\alpha]_D^{20} = +101.8$ (*c* 1.1, $CHCl_3$)

Source of chirality: *N*-benzyl-L-prolinol

Absolute configuration: (1′*S*,2*S*)

Raquel Almansa, David Guijarro* and Miguel Yus*

Tetrahedron: Asymmetry *18 (2007) 2828*



$C_{13}H_{19}NO$

[(2*S*)-1-Benzyl-2-methylpyrrolidin-2-yl]methanol

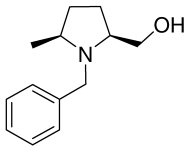
$[\alpha]_D^{20} = -35.7$ (*c* 1, $CHCl_3$)

Source of chirality: α-methyl-L-proline

Absolute configuration: (*S*)

Raquel Almansa, David Guijarro* and Miguel Yus*

Tetrahedron: Asymmetry *18 (2007) 2828*



$C_{13}H_{19}NO$

[(2*S*,5*S*)-1-Benzyl-5-methylpyrrolidin-2-yl]methanol

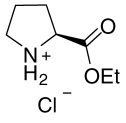
$[\alpha]_D^{20} = +39.2$ (*c* 1.0, $CHCl_3$)

Source of chirality: *cis*-5-methyl proline methyl ester

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

Raquel Almansa, David Guijarro* and Miguel Yus*

Tetrahedron: Asymmetry *18 (2007) 2828*



$C_7H_{14}NO_2Cl$

L-Proline ethyl ester hydrochloride

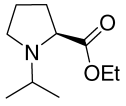
$[\alpha]_D^{20} = -30.0$ (*c* 3.3, EtOH)

Source of chirality: L-proline

Absolute configuration: (*S*)

Raquel Almansa, David Guijarro* and Miguel Yus*

Tetrahedron: Asymmetry *18 (2007) 2828*



$C_{10}H_{19}NO_2$

(*S*)-Ethyl 1-isopropylpyrrolidine-2-carboxylate

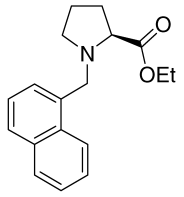
$[\alpha]_D^{20} = -54.9$ (*c* 1.2, $CHCl_3$)

Source of chirality: L-proline

Absolute configuration: (*S*)

Raquel Almansa, David Guijarro* and Miguel Yus*

Tetrahedron: Asymmetry *18 (2007) 2828*



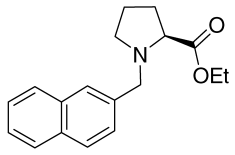
$C_{18}H_{21}NO_2$

(*S*)-Ethyl 1-(1-naphthylmethyl)pyrrolidine-2-carboxylate

$[\alpha]_D^{20} = -26.9$ (*c* 1.1, $CHCl_3$)
Source of chirality: L-proline
Absolute configuration: (*S*)

Raquel Almansa, David Guijarro* and Miguel Yus*

Tetrahedron: Asymmetry *18 (2007) 2828*



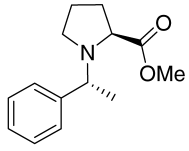
$C_{18}H_{21}NO_2$

(*S*)-Ethyl 1-(2-naphthylmethyl)pyrrolidine-2-carboxylate

$[\alpha]_D^{20} = -55.4$ (*c* 1.0, $CHCl_3$)
Source of chirality: L-proline
Absolute configuration: (*S*)

Raquel Almansa, David Guijarro* and Miguel Yus*

Tetrahedron: Asymmetry *18 (2007) 2828*



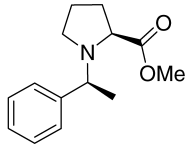
$C_{14}H_{19}NO_2$

(2*S*)-Methyl 1-[(*R*)-1-phenylethyl]pyrrolidine-2-carboxylate

$[\alpha]_D^{20} = -60.0$ (*c* 1.0, $CHCl_3$)
Source of chirality: L-proline
Absolute configuration: (1′*R*,2*S*)

Raquel Almansa, David Guijarro* and Miguel Yus*

Tetrahedron: Asymmetry *18 (2007) 2828*



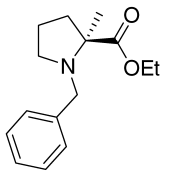
$C_{14}H_{19}NO_2$

(2*S*)-Methyl 1-[(*S*)-1-phenylethyl]pyrrolidine-2-carboxylate

$[\alpha]_D^{20} = -95.4$ (*c* 1.1, $CHCl_3$)
Source of chirality: L-proline
Absolute configuration: (1′*S*,2*S*)

Raquel Almansa, David Guijarro* and Miguel Yus*

Tetrahedron: Asymmetry *18 (2007) 2828*



$C_{15}H_{21}NO_2$

(*S*)-Ethyl 1-benzyl-2-methylpyrrolidine-2-carboxylate

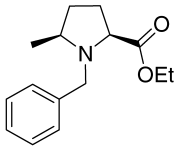
$[\alpha]_D^{20} = +42.8$ (*c* 1.0, $CHCl_3$)

Source of chirality: α-methyl-L-proline

Absolute configuration: (*S*)

Raquel Almansa, David Guijarro* and Miguel Yus*

Tetrahedron: Asymmetry *18 (2007) 2828*



$C_{14}H_{19}NO_2$

(2*S*,5*S*)-Methyl 1-benzyl-5-methylpyrrolidine-2-carboxylate

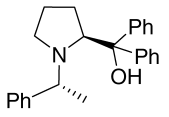
$[\alpha]_D^{20} = -11.5$ (*c* 1.2, $CHCl_3$)

Source of chirality: *cis*-5-methyl proline methyl ester

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

Raquel Almansa, David Guijarro* and Miguel Yus*

Tetrahedron: Asymmetry *18 (2007) 2828*



$C_{24}H_{25}NO$

{(2*S*)-1-[(*R*)-1-Phenylethyl]pyrrolidin-2-yl}diphenylmethanol

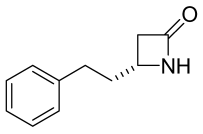
$[\alpha]_D^{20} = +54.0$ (*c* 0.5, $CHCl_3$)

Source of chirality: L-proline

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

Gábor Tasnádi, Enikő Forró* and Ferenc Fülöp

Tetrahedron: Asymmetry *18 (2007) 2841*



$C_{11}H_{13}NO$

(*R*)-4-Phenylethylazetidin-2-one

Ee >99% by GC on Chirasil-L-Val column

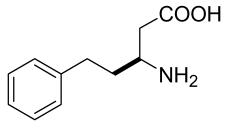
$[\alpha]_D^{25} = +19$ (*c* 0.21, $CHCl_3$)

Source of chirality: Lipolase-catalyzed hydrolysis

Absolute configuration: (4*R*)

Gábor Tasnádi, Enikő Forró* and Ferenc Fülöp

Tetrahedron: Asymmetry *18 (2007) 2841*



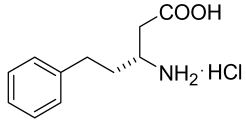
$C_{11}H_{15}NO_2$

(*S*)-3-Amino-5-phenylpentanoic acid

Ee = 87% by HPLC on APEX C18 column with precolumn derivatization with (*S*)-NIFE
$[\alpha]_D^{25} = +24$ (*c* 0.28, H_2O)
Source of chirality: Lipolase-catalyzed hydrolysis
Absolute configuration: (3*S*)

Gábor Tasnádi, Enikő Forró* and Ferenc Fülöp

Tetrahedron: Asymmetry *18 (2007) 2841*



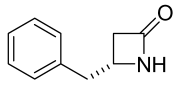
$C_{11}H_{16}ClNO_2$

(*R*)-3-Amino-5-phenylpentanoic acid hydrochloride

Ee >99% by HPLC on APEX C18 column with precolumn derivatization
$[\alpha]_D^{25} = -15$ (*c* 0.21, H_2O)
Source of chirality: Lipolase-catalyzed hydrolysis
Absolute configuration: (3*R*)

Gábor Tasnádi, Enikő Forró* and Ferenc Fülöp

Tetrahedron: Asymmetry *18 (2007) 2841*



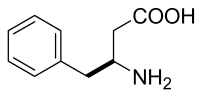
$C_{10}H_{11}NO$

(*R*)-4-Benzylazetidin-2-one

Ee >99% by GC on Chirasil-L-Val column
$[\alpha]_D^{25} = +38.8$ (*c* 0.65, $CHCl_3$)
Source of chirality: Lipolase-catalyzed hydrolysis
Absolute configuration: (4*R*)

Gábor Tasnádi, Enikő Forró* and Ferenc Fülöp

Tetrahedron: Asymmetry *18 (2007) 2841*



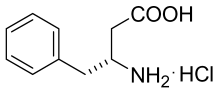
$C_{10}H_{13}NO_2$

(*S*)-3-Amino-4-phenylbutanoic acid

Ee = 89% by HPLC on APEX C18 column with precolumn derivatization with (*S*)-NIFE
$[\alpha]_D^{25} = +7$ (*c* 0.2, H_2O)
Source of chirality: Lipolase-catalyzed hydrolysis
Absolute configuration: (3*S*)

Gábor Tasnádi, Enikő Forró* and Ferenc Fülöp

Tetrahedron: Asymmetry *18 (2007) 2841*



$C_{10}H_{14}ClNO_2$

(*R*)-3-Amino-4-phenylbutanoic acid hydrochloride

Ee >99% by HPLC on APEX C18 column with precolumn derivatization

$[\alpha]_D^{25} = -8$ (*c* 0.11, H_2O)

Source of chirality: Lipolase-catalyzed hydrolysis

Absolute configuration: (3*R*)