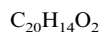
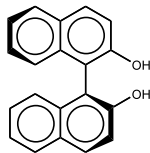


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James McNulty and Alfredo Capretta

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(*S*)-1,1'-Binaphthyl-2,2'-diol

E.e. = 55%

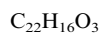
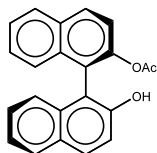
$[\alpha]_D^{25} = -15.3$ (*c* 1.47, THF)

Source of chirality: lipase-catalyzed enantioselective transesterification

Absolute configuration: *S*

Marcela Juárez-Hernandez, Dean V. Johnson, Herbert L. Holland,*
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(*R*)-1,1'-Binaphthyl-2,2'-diol monoacetate

E.e. = 96%

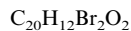
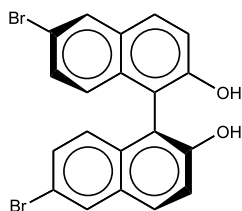
$[\alpha]_D^{25} = +28.0$ (*c* 0.95, THF)

Source of chirality: lipase-catalyzed enantioselective transesterification

Absolute configuration: *R*

Marcela Juárez-Hernandez, Dean V. Johnson, Herbert L. Holland,*
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(*S*)-6,6'-Dibromo-1,1'-binaphthyl-2,2'-diol

E.e. = 80%

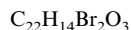
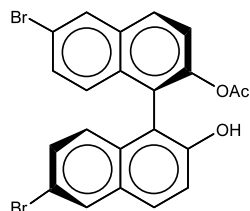
$[\alpha]_D^{25} = +33.1$ (*c* 1.36, THF)

Source of chirality: lipase-catalyzed enantioselective transesterification

Absolute configuration: *S*

Marcela Juárez-Hernandez, Dean V. Johnson, Herbert L. Holland,*
James McNulty and Alfredo Capretta

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(*R*)-6,6'-Dibromo-1,1'-binaphthyl-2,2'-diol monoacetate

E.e. = 94%

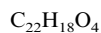
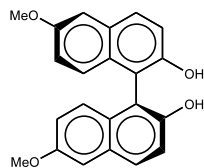
$[\alpha]_D^{25} = -35.7$ (*c* 1.14, THF)

Source of chirality: lipase-catalyzed enantioselective transesterification

Absolute configuration: *R*

Marcela Juárez-Hernandez, Dean V. Johnson, Herbert L. Holland,*
James McNulty and Alfredo Capretta

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(*S*)-6,6'-Dimethoxy-1,1'-binaphthyl-2,2'-diol

E.e. = 58%

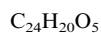
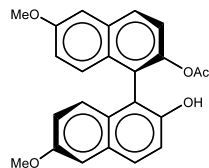
$[\alpha]_D^{25} = +29.8$ (*c* 1.26, THF)

Source of chirality: lipase-catalyzed enantioselective transesterification

Absolute configuration: *S*

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James McNulty and Alfredo Capretta

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(*R*)-6,6'-Dimethoxy-1,1'-binaphthyl-2,2'-diol monoacetate

E.e. = 78%

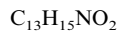
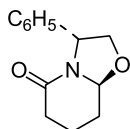
$[\alpha]_D^{25} = -23.8$ (*c* 1.84, THF)

Source of chirality: lipase-catalyzed enantioselective transesterification

Absolute configuration: *R*

Mercedes Amat,* Núria Llor, Carmen Escolano, Marta Huguet,
Maria Pérez, Elies Molins and Joan Bosch*

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(*3R,8aS*)-5-Oxo-3-phenyl-2,3,6,7,8,8a-hexahydro-5*H*-oxazolo[3,2-*a*]pyridine

$[\alpha]_D^{25} = -90.8$ (*c* 0.6, CH_2Cl_2)

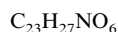
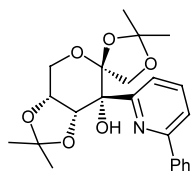
Source of chirality: (*R*)-(-)-phenylglycinol

Absolute configuration: *3R,8aS*

(determined by X-ray crystallography)

Hanmin Huang, Huilin Chen, Xinquan Hu, Changmin Bai
and Zhuo Zheng*

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1,2:4,5-Di-*O*-isopropylidene-3-(6-phenylpyridin-2-yl)- β -D-fructopyranose

E.e. $\geq 99\%$

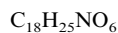
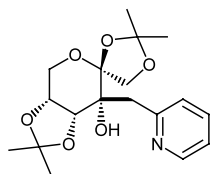
$[\alpha]_D^{25} = -151.6$ (*c* 0.60, $CHCl_3$)

Source of chirality: D-fructose and stereoselective synthesis

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

Hanmin Huang, Huilin Chen, Xinquan Hu, Changmin Bai
and Zhuo Zheng*

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1,2:4,5-Di-*O*-isopropylidene-3-pyridin-2-ylmethyl- β -D-fructopyranose

E.e. $\geq 99\%$

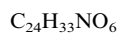
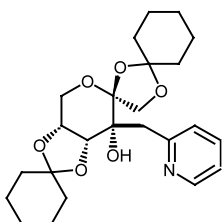
$[\alpha]_D^{25} = -41.8$ (*c* 0.53, $CHCl_3$)

Source of chirality: D-fructose and stereoselective synthesis

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

Hanmin Huang, Huilin Chen, Xinquan Hu, Changmin Bai
and Zhuo Zheng*

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1,2:4,5-Di-*O*-cyclohexylidene-3-pyridin-2-ylmethyl- β -D-fructopyranose

E.e. $\geq 99\%$

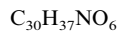
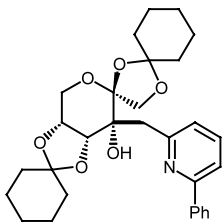
$[\alpha]_D^{25} = -40.2$ (*c* 0.58, $CHCl_3$)

Source of chirality: D-fructose and stereoselective synthesis

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

Hanmin Huang, Huilin Chen, Xinquan Hu, Changmin Bai
and Zhuo Zheng*

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1,2:4,5-Di-*O*-cyclohexylidene-3-(6-phenylpyridin-2-ylmethyl)- β -D-fructopyranose

E.e. $\geq 99\%$

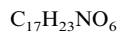
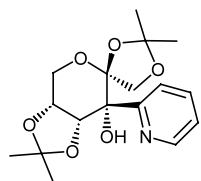
$[\alpha]_D^{25} = +93.4$ (*c* 0.51, $CHCl_3$)

Source of chirality: D-fructose and stereoselective synthesis

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

Hanmin Huang, Huilin Chen, Xinquan Hu, Changmin Bai
and Zhuo Zheng*

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1,2:4,5-Di-*O*-isopropylidene-3-pyridin-2-yl- β -D-fructopyranose

E.e. $\geq 99\%$

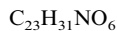
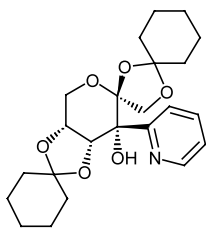
$[\alpha]_D^{25} = -175.3$ (*c* 0.46, $CHCl_3$)

Source of chirality: D-fructose and stereoselective synthesis

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

Hanmin Huang, Huilin Chen, Xinquan Hu, Changmin Bai and Zhuo Zheng*

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1,2:4,5-Di-*O*-cyclohexylidene-3-pyridin-2-yl- β -D-fructopyranose

E.e. $\geq 99\%$

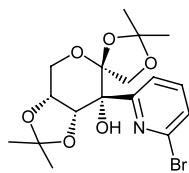
$[\alpha]_D^{25} = -172.0$ (*c* 0.99, $CHCl_3$)

Source of chirality: D-fructose and stereoselective synthesis

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

Hanmin Huang, Huilin Chen, Xinquan Hu, Changmin Bai and Zhuo Zheng*

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1,2:4,5-Di-*O*-isopropylidene-3-(6-bromopyridin-2-yl)- β -D-fructopyranose

E.e. $\geq 99\%$

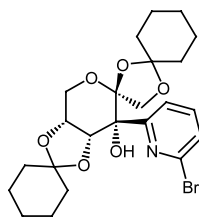
$[\alpha]_D^{25} = -153.5$ (*c* 0.70, $CHCl_3$)

Source of chirality: D-fructose and stereoselective synthesis

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

Hanmin Huang, Huilin Chen, Xinquan Hu, Changmin Bai and Zhuo Zheng*

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1,2:4,5-Di-*O*-cyclohexylidene-3-(6-bromopyridin-2-yl)- β -D-fructopyranose

E.e. $\geq 99\%$

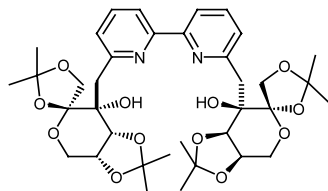
$[\alpha]_D^{25} = -149.8$ (*c* 0.86, $CHCl_3$)

Source of chirality: D-fructose and stereoselective synthesis

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

Hanmin Huang, Huilin Chen, Xinquan Hu, Changmin Bai and Zhuo Zheng*

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6,6'-Di-((1,2:4,5-di-*O*-isopropylidene- β -D-fructopyranose)yl)methyl-2,2'-bipyridine

E.e. $\geq 99\%$, de=4% (1H NMR and HPLC)

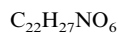
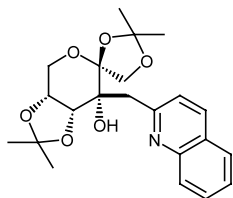
$[\alpha]_D^{25} = +65.8$ (*c* 0.23, $CHCl_3$)

Source of chirality: D-fructose and stereoselective synthesis

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

Hanmin Huang, Huilin Chen, Xinquan Hu, Changmin Bai
and Zhuo Zheng*

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1,2:4,5-Di-*O*-isopropylidene-3-quinolin-2-ylmethyl- β -D-fructopyranose

E.e. $\geq 99\%$

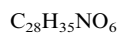
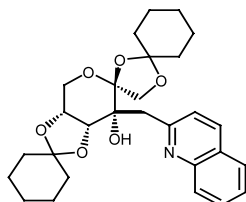
$[\alpha]_D^{25} = +36.5$ (*c* 0.66, $CHCl_3$)

Source of chirality: D-fructose and stereoselective synthesis

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

Hanmin Huang, Huilin Chen, Xinquan Hu, Changmin Bai
and Zhuo Zheng*

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1,2:4,5-Di-*O*-cyclohexylidene-3-quinolin-2-ylmethyl- β -D-fructopyranose

E.e. $\geq 99\%$

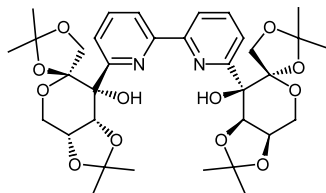
$[\alpha]_D^{25} = +35.6$ (*c* 0.70, $CHCl_3$)

Source of chirality: D-fructose and stereoselective synthesis

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

Hanmin Huang, Huilin Chen, Xinquan Hu, Changmin Bai
and Zhuo Zheng*

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6,6'-Di-1,2:4,5-di-*O*-isopropylidene- β -D-fructopyranose-2,2'-bipyridine

E.e. $\geq 99\%$

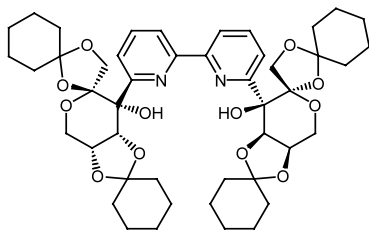
$[\alpha]_D^{25} = -200.6$ (*c* 0.30, $CHCl_3$)

Source of chirality: D-fructose and stereoselective synthesis

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

Hanmin Huang, Huilin Chen, Xinquan Hu, Changmin Bai
and Zhuo Zheng*

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6,6'-Di-1,2:4,5-di-*O*-cyclohexylidene- β -D-fructopyranose-2,2'-bipyridine

E.e. $\geq 99\%$

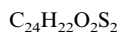
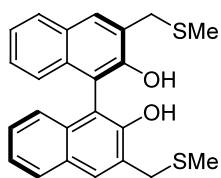
$[\alpha]_D^{25} = -171.2$ (*c* 0.59, $CHCl_3$)

Source of chirality: D-fructose and stereoselective synthesis

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

Jahyo Kang,* Jae Hoon Lee and Dae Sung Lim

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(*R*)-3,3'-Bis(methylsulfanylmethyl)-(1,1')-binaphthalenyl-2,2'-diol

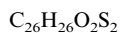
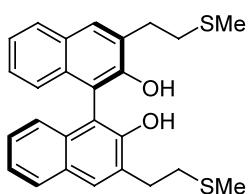
$[\alpha]_D^{25} = +105.5$ (*c* 1.0, $CHCl_3$)

Source of chirality: (*R*)-binaphthol

Absolute configuration: *R*

Jahyo Kang,* Jae Hoon Lee and Dae Sung Lim

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(*R*)-3,3'-Bis(2-methylsulfanylethyl)-(1,1')-binaphthalenyl-2,2'-diol

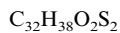
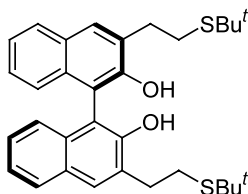
$[\alpha]_D^{25} = +66.5$ (*c* 1.0, $CHCl_3$)

Source of chirality: (*R*)-binaphthol

Absolute configuration: *R*

Jahyo Kang,* Jae Hoon Lee and Dae Sung Lim

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(*R*)-3,3'-Bis(2-*t*-butylsulfanylethyl)-(1,1')-binaphthalenyl-2,2'-diol

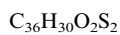
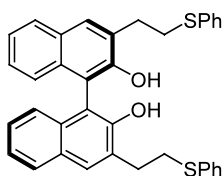
$[\alpha]_D^{25} = +60.2$ (*c* 1.0, $CHCl_3$)

Source of chirality: (*R*)-binaphthol

Absolute configuration: *R*

Jahyo Kang,* Jae Hoon Lee and Dae Sung Lim

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(*R*)-3,3'-Bis(2-phenylsulfanylethyl)-(1,1')-binaphthalenyl-2,2'-diol

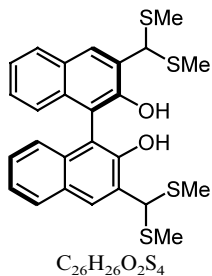
$[\alpha]_D^{25} = +67.3$ (*c* 1.0, $CHCl_3$)

Source of chirality: (*R*)-binaphthol

Absolute configuration: *R*

Jahyo Kang,* Jae Hoon Lee and Dae Sung Lim

Tetrahedron: Asymmetry 14 (2003) 305

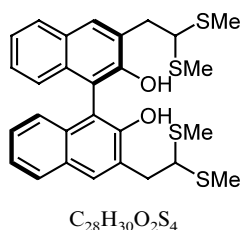


(*R*)-3,3'-Bis(bis(methylsulfanyl)methyl)-(1,1')-binaphthalenyl-2,2'-diol

$[\alpha]_D^{25} = +61.5$ (*c* 1.0, $CHCl_3$)
Source of chirality: (*R*)-binaphthol
Absolute configuration: *R*

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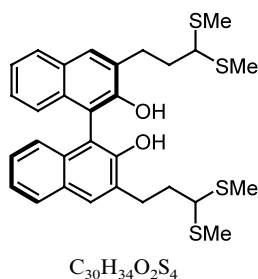


(*R*)-3,3'-Bis-(2,2-bis(methylsulfanyl)ethyl)-(1,1')-binaphthalenyl-2,2'-diol

$[\alpha]_D^{25} = +60.8$ (*c* 0.12, $CHCl_3$)
Source of chirality: (*R*)-binaphthol
Absolute configuration: *R*

Jahyo Kang,* Jae Hoon Lee and Dae Sung Lim

Tetrahedron: Asymmetry 14 (2003) 305

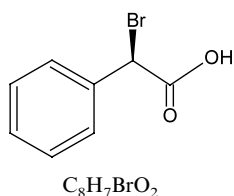


(*R*)-3,3'-Bis(3,3-bis(methylsulfanyl)propyl)-(1,1')-binaphthalenyl-2,2'-diol

$[\alpha]_D^{25} = +57.7$ (*c* 0.18, $CHCl_3$)
Source of chirality: (*R*)-binaphthol
Absolute configuration: *R*

David Guieysse, Christophe Salagnad, Pierre Monsan and Magali Remaud-Simeon*

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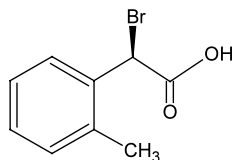


(*2R*)-Bromophenylacetic acid

E.e. = 97% (by Chiral HPLC)
 $[\alpha]_D^{20} = -92$ (*c* 0.5, diethyl ether)
Absolute configuration: (*2R*)

David Guieysse, Christophe Salagnad, Pierre Monsan and Magali Remaud-Simeon*

Tetrahedron: Asymmetry 14 (2003) 317



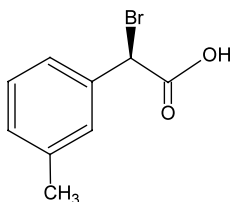
$C_9H_9BrO_2$

(2R)-Bromo-*o*-tolylacetic acid

E.e. = 96% (by Chiral HPLC)
 $[\alpha]_D^{20} = -3.6$ (*c* 0.1, diethyl ether)
Absolute configuration: (2R)

David Guieysse, Christophe Salagnad, Pierre Monsan and Magali Remaud-Simeon*

Tetrahedron: Asymmetry 14 (2003) 317



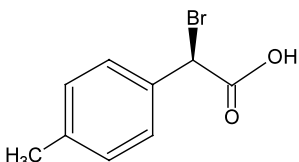
$C_9H_9BrO_2$

(2R)-Bromo-*m*-tolylacetic acid

E.e. = 95% (by Chiral HPLC)
 $[\alpha]_D^{20} = -101$ (*c* 0.6, diethyl ether)
Absolute configuration: (2R)

David Guieysse, Christophe Salagnad, Pierre Monsan and Magali Remaud-Simeon*

Tetrahedron: Asymmetry 14 (2003) 317



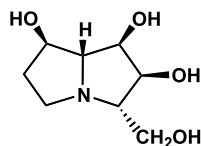
$C_9H_9BrO_2$

(2R)-Bromo-*p*-tolylacetic acid

E.e. = 95% (by Chiral HPLC)
 $[\alpha]_D^{20} = -76$ (*c* 0.5, diethyl ether)
Absolute configuration: (2R)

Atsushi Kato, Erika Kano, Isao Adachi, Russell J. Molyneux, Alison A. Watson, Robert J. Nash, George W. J. Fleet, Mark R. Wormald, Haruhisa Kizu, Kyoko Ikeda and Naoki Asano*

Tetrahedron: Asymmetry 14 (2003) 325



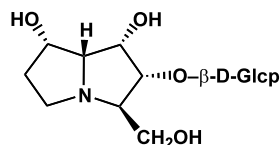
$C_8H_{15}NO_4$

2,3,7-Triepi-australine (1*R**,2*S**,3*S**,7*R**,7*aR**)-3-hydroxymethyl-1,2,7-trihydroxy-pyrrolizidine

E.e. = 100%
 $[\alpha]_D = +59.7$ (*c* 0.58, H₂O)
Source of chirality: natural product isolated from *Castanospermum australe*

Atsushi Kato, Erika Kano, Isao Adachi, Russell J. Molyneux,
Alison A. Watson, Robert J. Nash, George W. J. Fleet,
Mark R. Wormald, Haruhisa Kizu, Kyoko Ikeda and Naoki Asano*

Tetrahedron: Asymmetry 14 (2003) 325



$C_{14}H_{25}NO_9$

1-*epi*-Australine-2-*O*- β -D-glucopyranoside (1*S*,2*R*,3*R*,7*S*,7*aR*)-2-*O*- β -D-glucopyranosyl-3-hydroxymethyl-1,2,7-trihydroxy-pyrrolizidine

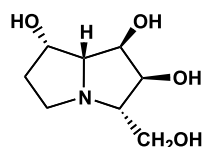
E.e. = 100%

$[\alpha]_D = +35.8$ (*c* 0.42, H₂O)

Source of chirality: natural product isolated from
Castanospermum australe

Atsushi Kato, Erika Kano, Isao Adachi, Russell J. Molyneux,
Alison A. Watson, Robert J. Nash, George W. J. Fleet,
Mark R. Wormald, Haruhisa Kizu, Kyoko Ikeda and Naoki Asano*

Tetrahedron: Asymmetry 14 (2003) 325



$C_8H_{15}NO_4$

2,3-*Diepi*-australine (1*R**,2*S**,3*S**,7*S**,7*aR**)-3-hydroxymethyl-1,2,7-trihydroxy-pyrrolizidine

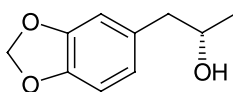
E.e. = 100%

$[\alpha]_D = +38.2$ (*c* 0.51, H₂O)

Source of chirality: natural product isolated from
Castanospermum australe

Srinivasan Easwar and Narshinha P. Argade*

Tetrahedron: Asymmetry 14 (2003) 333



$C_{10}H_{12}O_3$

(+)-(*S*)- α -Methyl-1,3-benzodioxole-5-ethanol

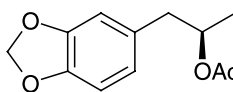
E.e. = 80%

$[\alpha]_{589}^{20} = +27.6$ (*c* 1.0, CHCl₃)

Source of chirality: enzyme 'Amano PS'
Absolute configuration: *S*

Srinivasan Easwar and Narshinha P. Argade*

Tetrahedron: Asymmetry 14 (2003) 333



$C_{12}H_{14}O_4$

(-)-(*R*)- α -Methyl-1,3-benzodioxole-5-ethyl acetate

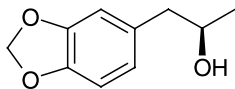
E.e. = 96%

$[\alpha]_{589}^{20} = -5.4$ (*c* 1.0, CHCl₃)

Source of chirality: enzyme 'Amano PS'
Absolute configuration: *R*

Srinivasan Easwar and Narshinha P. Argade*

Tetrahedron: Asymmetry 14 (2003) 333



$C_{10}H_{12}O_3$

(-)-(R)- α -Methyl-1,3-benzodioxole-5-ethanol

E.e. = 96%

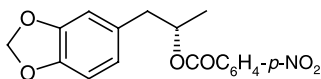
$[\alpha]_{589}^{20} = -34.2$ (*c* 1.0, $CHCl_3$)

Source of chirality: enzyme 'Amano PS'

Absolute configuration: *R*

Srinivasan Easwar and Narshinha P. Argade*

Tetrahedron: Asymmetry 14 (2003) 333



$C_{17}H_{15}NO_6$

(+)-(S)- α -Methyl-1,3-benzodioxole-5-ethyl *p*-nitrobenzoate

E.e. = 96%

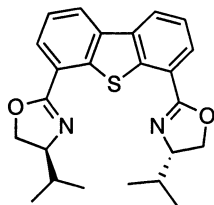
$[\alpha]_{589}^{20} = +103.1$ (*c* 1.0, $CHCl_3$)

Source of chirality: enzyme 'Amano PS'

Absolute configuration: *S*

Arnaud Voituriez and Emmanuelle Schulz*

Tetrahedron: Asymmetry 14 (2003) 339



$C_{24}H_{26}N_2O_2S$

(*S,S*)-4,6-Dibenzothiophenediyl-2,2'-bis(4-isopropylloxazoline)

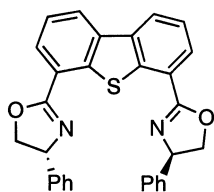
$[\alpha]_D^{20} = -74.3$ (*c* 2.28, $CHCl_3$)

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

Absolute configuration: (4*S*,4'*S*)

Arnaud Voituriez and Emmanuelle Schulz*

Tetrahedron: Asymmetry 14 (2003) 339



$C_{30}H_{22}N_2O_2S$

(*R,R*)-4,6-Dibenzothiophenediyl-2,2'-bis(4-phenyloxazoline)

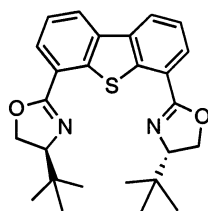
$[\alpha]_D^{20} = -247.7$ (*c* 1.29, $CHCl_3$)

Source of chirality: commercially available
(*R*)-(-)-2-phenylglycinol

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

Arnaud Voituriez and Emmanuelle Schulz*

Tetrahedron: Asymmetry 14 (2003) 339



$C_{26}H_{30}N_2O_2S$

(*S,S*)-4,6-Dibenzothiophenediyl-2,2'-bis(4-*tert*-butyloxazoline)

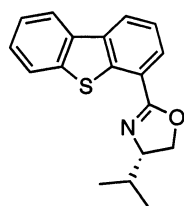
$[\alpha]_D^{20} = -49.4$ (*c* 1.06, $CHCl_3$)

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

Absolute configuration: (4*S*,4'*S*)

Arnaud Voituriez and Emmanuelle Schulz*

Tetrahedron: Asymmetry 14 (2003) 339



$C_{18}H_{17}NOS$

(*S*)-2-Dibenzothiophen-4-yl-4-isopropylloxazoline

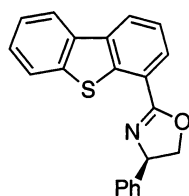
$[\alpha]_D^{20} = -28.3$ (*c* 0.86, $CHCl_3$)

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

Absolute configuration: (4*S*)

Arnaud Voituriez and Emmanuelle Schulz*

Tetrahedron: Asymmetry 14 (2003) 339



$C_{21}H_{15}NOS$

(*R*)-2-Dibenzothiophen-4-yl-4-phenyloxazoline

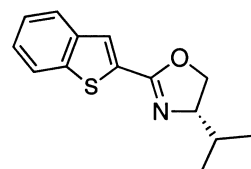
$[\alpha]_D^{20} = -190.1$ (*c* 1.03, $CHCl_3$)

Source of chirality: commercially available
(*R*)-(-)-2-phenylglycinol

Absolute configuration: (4*R*)

Arnaud Voituriez and Emmanuelle Schulz*

Tetrahedron: Asymmetry 14 (2003) 339



$C_{14}H_{15}NOS$

(*S*)-2-Benzo[*b*]thiophen-2-yl-4-isopropylloxazoline

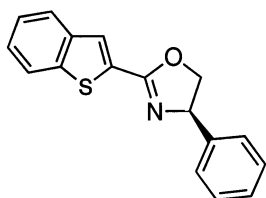
$[\alpha]_D^{20} = -57.6$ (*c* 0.99, $CHCl_3$)

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

Absolute configuration: (4*S*)

Arnaud Voituriez and Emmanuelle Schulz*

Tetrahedron: Asymmetry 14 (2003) 339



C₁₇H₁₃NOS

(*R*)-2-Benzo[*b*]thiophen-2-yl-4-phenyloxazoline

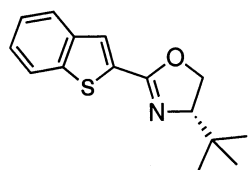
$[\alpha]_D^{20} = +6.6$ (*c* 0.99, CHCl₃)

Source of chirality: commercially available
(*R*)-(-)-2-phenylglycinol

Absolute configuration: (4*R*)

Arnaud Voituriez and Emmanuelle Schulz*

Tetrahedron: Asymmetry 14 (2003) 339



C₁₅H₁₇NOS

(*S*)-2-Benzo[*b*]thiophen-2-yl-4-*tert*-butyloxazoline

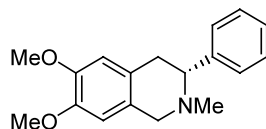
$[\alpha]_D^{20} = -58.7$ (*c* 1.01, CHCl₃)

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

Absolute configuration: (4*S*)

Jose L. Vicario, Dolores Badía,* Luisa Carrillo and Eneritz Anakabe

Tetrahedron: Asymmetry 14 (2003) 347



C₁₈H₂₁NO₂

[3*R*]-6,7-Dimethoxy-2-methyl-3-phenyl-1,2,3,4-tetrahydroisoquinoline

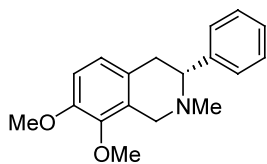
$[\alpha]_D^{20} = +28.0$ (*c* 0.5, CH₂Cl₂)

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

Absolute configuration: 3*R*

Jose L. Vicario, Dolores Badía,* Luisa Carrillo and Eneritz Anakabe

Tetrahedron: Asymmetry 14 (2003) 347



C₁₈H₂₁NO₂

[3*R*]-7,8-Dimethoxy-2-methyl-3-phenyl-1,2,3,4-tetrahydroisoquinoline

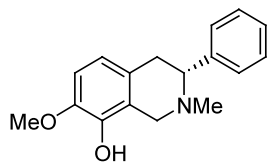
$[\alpha]_D^{20} = +96.2$ (*c* 0.1, CH₂Cl₂)

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

Absolute configuration: 3*R*

Jose L. Vicario, Dolores Badía,* Luisa Carrillo and Eneritz Anakabe

Tetrahedron: Asymmetry 14 (2003) 347



C₁₇H₁₉NO₂

[3*R*]-8-Hydroxy-2-methyl-7-methoxy-3-phenyl-1,2,3,4-tetrahydroisoquinoline

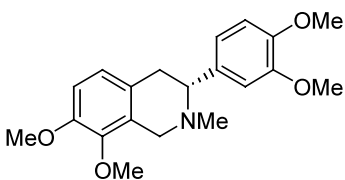
$[\alpha]_D^{20} = +77.6$ (*c* 0.1, CH₂Cl₂)

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

Absolute configuration: 3*R*

Jose L. Vicario, Dolores Badía,* Luisa Carrillo and Eneritz Anakabe

Tetrahedron: Asymmetry 14 (2003) 347



C₂₀H₂₅NO₄

[3*R*]-3-(3,4-Dimethoxyphenyl)-7,8-dimethoxy-2-methyl-1,2,3,4-tetrahydroisoquinoline

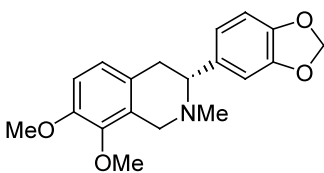
$[\alpha]_D^{20} = +45.2$ (*c* 0.1, CH₂Cl₂)

Source of chirality: (*S,S*)-(+)-pseudoephedrine

Absolute configuration: 3*R*

Jose L. Vicario, Dolores Badía,* Luisa Carrillo and Eneritz Anakabe

Tetrahedron: Asymmetry 14 (2003) 347



C₁₉H₂₁NO₄

[3*R*]-7,8-Dimethoxy-2-methyl-3-(3,4-methylenedioxyphenyl)-1,2,3,4-tetrahydroisoquinoline

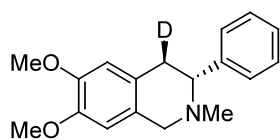
$[\alpha]_D^{20} = +50.1$ (*c* 0.1, CH₂Cl₂)

Source of chirality: (*S,S*)-(+)-pseudoephedrine

Absolute configuration: 3*R*

Jose L. Vicario, Dolores Badía,* Luisa Carrillo and Eneritz Anakabe

Tetrahedron: Asymmetry 14 (2003) 347



C₁₈H₂₀DNO₂

[3*R*,4*R*]-4-Deutero-6,7-dimethoxy-2-methyl-3-phenyl-1,2,3,4-tetrahydroisoquinoline

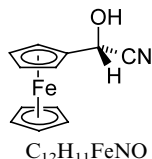
$[\alpha]_D^{20} = +27.1$ (*c* 0.1, CH₂Cl₂)

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

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

Richard F. G. Fröhlich, Antonina A. Zabelinskaja-Mackova,
Martin H. Fechter and Herfried Griengl*

Tetrahedron: Asymmetry 14 (2003) 355



Cyanohydroxymethylferrocene

E.e. = 99%

$[\alpha]_D^{20} = +150$ (c 0.30, CH_3CN)

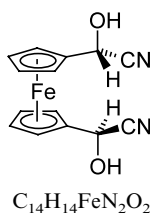
Source of chirality: enzyme *HbHNL*

Absolute configuration: *R*

M.p. = 73–76°C

Richard F. G. Fröhlich, Antonina A. Zabelinskaja-Mackova,
Martin H. Fechter and Herfried Griengl*

Tetrahedron: Asymmetry 14 (2003) 355



1,1'-Bis(cyanohydroxymethyl)ferrocene

D.e. = 91%, e.e. = 96%

$[\alpha]_D^{20} = +172$ (c 0.07, CH_3CN)

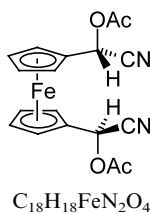
Source of chirality: enzyme *HbHNL*

Absolute configuration: *R,R*

M.p. = 109–111°C

Richard F. G. Fröhlich, Antonina A. Zabelinskaja-Mackova,
Martin H. Fechter and Herfried Griengl*

Tetrahedron: Asymmetry 14 (2003) 355



1,1'-Bis(acetoxycyanomethyl)ferrocene

D.e. = 96%, e.e. = 98%

$[\alpha]_D^{20} = +105$ (c 0.494, CH_3CN)

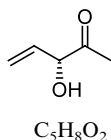
Source of chirality: Enzyme *HbHNL*

Absolute configuration: *R,R*

M.p. = 119–121°C

Toshinari H. Kurniadi, Rachid Bel Rhlid, Marcel A. Juillerat,*
Martin Schüler and Ralf G. Berger

Tetrahedron: Asymmetry 14 (2003) 363



(*R*)-(-)-3-Hydroxy-1-penten-4-one

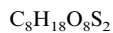
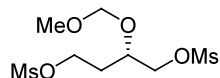
E.e. = 72%

$[\alpha]_D^{25} = -75$ (c 0.06, $CHCl_3$)

Absolute configuration: *R*

Pedro Merino,* Tomas Tejero, Julia Revuelta, Pilar Romero,
Stefano Cicchi, Vanni Mannucci, Alberto Brandi and Andrea Goti*

Tetrahedron: Asymmetry 14 (2003) 367



Methanesulfonic acid 4-methanesulfonyloxy-2-methoxymethoxy-butyl ester

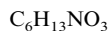
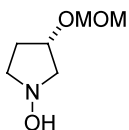
$$[\alpha]_D^{25} = -40 \text{ (} c \text{ 0.46, CHCl}_3\text{)}$$

Source of chirality: L-malic acid

Absolute configuration: 2*S*

Pedro Merino,* Tomas Tejero, Julia Revuelta, Pilar Romero,
Stefano Cicchi, Vanni Mannucci, Alberto Brandi and Andrea Goti*

Tetrahedron: Asymmetry 14 (2003) 367



3-Methoxymethoxy-pyrrolidin-1-ol

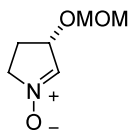
$$[\alpha]_D^{25} = 17 \text{ (} c \text{ 2.20, CHCl}_3\text{)}$$

Source of chirality: L-malic acid

Absolute configuration: 3*S*

Pedro Merino,* Tomas Tejero, Julia Revuelta, Pilar Romero,
Stefano Cicchi, Vanni Mannucci, Alberto Brandi and Andrea Goti*

Tetrahedron: Asymmetry 14 (2003) 367



4-Methoxymethoxy-3,4-dihydro-2*H*-pyrrole 1-oxide

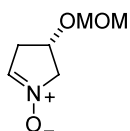
$$[\alpha]_D^{25} = -77 \text{ (} c \text{ 1.28, CHCl}_3\text{)}$$

Source of chirality: L-malic acid

Absolute configuration: 4*S*

Pedro Merino,* Tomas Tejero, Julia Revuelta, Pilar Romero,
Stefano Cicchi, Vanni Mannucci, Alberto Brandi and Andrea Goti*

Tetrahedron: Asymmetry 14 (2003) 367



3-Methoxymethoxy-3,4-dihydro-2*H*-pyrrole 1-oxide

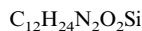
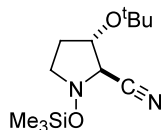
$$[\alpha]_D^{25} = 33 \text{ (} c \text{ 2.63, CHCl}_3\text{)}$$

Source of chirality: L-malic acid

Absolute configuration: 3*S*

Pedro Merino,* Tomas Tejero, Julia Revuelta, Pilar Romero,
Stefano Cicchi, Vanni Mannucci, Alberto Brandi and Andrea Goti*

Tetrahedron: Asymmetry 14 (2003) 367



3-*tert*-Butoxy-1-(trimethylsiloxy)-pyrrolidine-2-carbonitrile

d.r. >20:1 (by NMR); e.e. 99% (GLC)

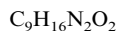
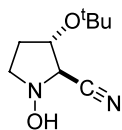
$[\alpha]_D^{25} = -62$ (c 0.56, $CHCl_3$)

Source of chirality: L-malic acid

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

Pedro Merino,* Tomas Tejero, Julia Revuelta, Pilar Romero,
Stefano Cicchi, Vanni Mannucci, Alberto Brandi and Andrea Goti*

Tetrahedron: Asymmetry 14 (2003) 367



3-*tert*-Butoxy-1-hydroxy-pyrrolidine-2-carbonitrile

d.r. >20:1 (by NMR); e.e. 99% (GLC)

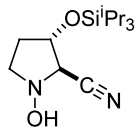
$[\alpha]_D^{25} = +20$ (c 1.00, $CHCl_3$)

Source of chirality: L-malic acid

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

Pedro Merino,* Tomas Tejero, Julia Revuelta, Pilar Romero,
Stefano Cicchi, Vanni Mannucci, Alberto Brandi and Andrea Goti*

Tetrahedron: Asymmetry 14 (2003) 367



1-Hydroxy-3-(triisopropylsiloxy)-pyrrolidine-2-carbonitrile

d.r. >20:1 (by NMR); e.e. 99% (GLC)

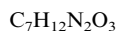
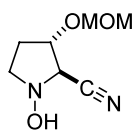
$[\alpha]_D^{25} = -37$ (c 0.27, $CHCl_3$)

Source of chirality: L-malic acid

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

Pedro Merino,* Tomas Tejero, Julia Revuelta, Pilar Romero,
Stefano Cicchi, Vanni Mannucci, Alberto Brandi and Andrea Goti*

Tetrahedron: Asymmetry 14 (2003) 367



1-Hydroxy-3-(methoxymethoxy)-pyrrolidine-2-carbonitrile

d.r. >20:1 (by NMR); e.e. 99% (GLC)

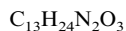
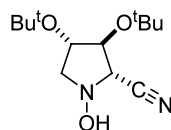
$[\alpha]_D^{25} = +9$ (c 0.22, $CHCl_3$)

Source of chirality: L-malic acid

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

Pedro Merino,* Tomas Tejero, Julia Revuelta, Pilar Romero,
Stefano Cicchi, Vanni Mannucci, Alberto Brandi and Andrea Goti*

Tetrahedron: Asymmetry 14 (2003) 367



3,4-Di-*tert*-butoxy-1-hydroxy-pyrrolidine-2-carbonitrile

d.r. >20:1 (by NMR); e.e. 99% (GLC)

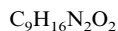
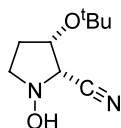
$[\alpha]_D^{25} = -16$ (c 0.80, $CHCl_3$)

Source of chirality: L-tartaric acid

Absolute configuration: 2*S*,3*S*,4*S*

Pedro Merino,* Tomas Tejero, Julia Revuelta, Pilar Romero,
Stefano Cicchi, Vanni Mannucci, Alberto Brandi and Andrea Goti*

Tetrahedron: Asymmetry 14 (2003) 367



3-*tert*-Butoxy-1-hydroxy-pyrrolidine-2-carbonitrile

d.r. = 33:67 (by NMR); e.e. 99% (GLC)

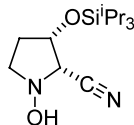
$[\alpha]_D^{25} = +21$ (c 0.40, $CHCl_3$)

Source of chirality: L-malic acid

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

Pedro Merino,* Tomas Tejero, Julia Revuelta, Pilar Romero,
Stefano Cicchi, Vanni Mannucci, Alberto Brandi and Andrea Goti*

Tetrahedron: Asymmetry 14 (2003) 367



1-Hydroxy-3-(triisopropylsiloxy)-pyrrolidine-2-carbonitrile

d.r. = 33:67 (by NMR); e.e. 99% (GLC)

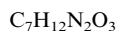
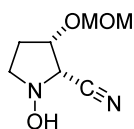
$[\alpha]_D^{25} = +15$ (c 0.10, $CHCl_3$)

Source of chirality: L-malic acid

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

Pedro Merino,* Tomas Tejero, Julia Revuelta, Pilar Romero,
Stefano Cicchi, Vanni Mannucci, Alberto Brandi and Andrea Goti*

Tetrahedron: Asymmetry 14 (2003) 367



1-Hydroxy-3-(methoxymethoxy)-pyrrolidine-2-carbonitrile

d.r. = 30:70 (by NMR); e.e. 99% (GLC)

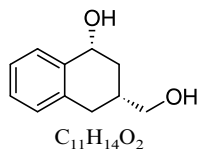
$[\alpha]_D^{25} = -50$ (c 0.10, $CHCl_3$)

Source of chirality: L-malic acid

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

Yolanda Caro, Christian F. Masaguer and Enrique Raviña*

Tetrahedron: Asymmetry 14 (2003) 381



(1R,3R)-3-Hydroxymethyl-1,2,3,4-tetrahydronaphthalen-1-ol

Ee=98%

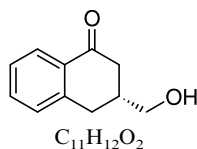
$[\alpha]_D^{20} = -103$ (c 1.0, EtOAc)

Source of chirality: chiral precursor

Absolute configuration: 1R,3R

Yolanda Caro, Christian F. Masaguer and Enrique Raviña*

Tetrahedron: Asymmetry 14 (2003) 381



(R)-3-Hydroxymethyl-1,2,3,4-tetrahydronaphthalen-1-one

Ee=97%

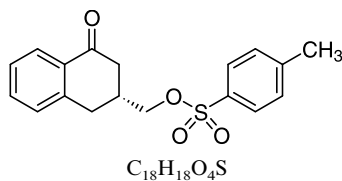
$[\alpha]_D^{20} = -27.7$ (c 0.5, EtOAc)

Source of chirality: chiral precursor

Absolute configuration: R

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Tetrahedron: Asymmetry 14 (2003) 381



(R)-(4-Oxo-1,2,3,4-tetrahydronaphthalen-2-yl)methyl 4-methylbenzenesulfonate

Ee=97%

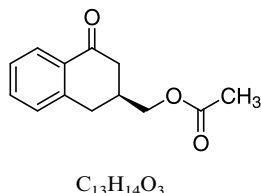
$[\alpha]_D^{20} = -12.0$ (c 0.5, EtOAc)

Source of chirality: chiral precursor

Absolute configuration: R

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Tetrahedron: Asymmetry 14 (2003) 381



(S)-(1-Oxo-1,2,3,4-tetrahydro-3-naphthyl)methyl acetate

Ee=91%

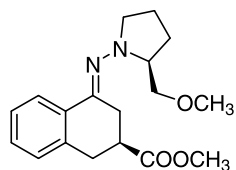
$[\alpha]_D^{20} = +24.2$ (c 1.0, EtOAc)

Source of chirality: lipase-catalyzed resolution

Absolute configuration: S

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$C_{18}H_{24}N_2O_3$

Methyl (*S,S*)-4-[[2-(methoxymethyl)pyrrolidin-1-yl]imino]-1,2,3,4-tetrahydronaphthalene-2-carboxylate: SAMP-Hydrazone

De = 100%

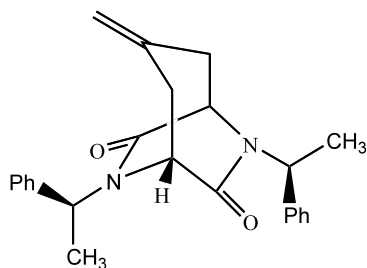
$[\alpha]_D^{20} = +906$ (*c* 1.0, EtOAc)

Source of chirality: SAMP

Absolute configuration: *S,S*

Fabio Piccinelli, Gianni Porzi,* Monica Sandri and Sergio Sandri*

Tetrahedron: Asymmetry 14 (2003) 393



$C_{24}H_{26}N_2O_2$

(3*R*,6*R*,1'*S*)-1,4-Bis-(1'-phenethyl)-2,5-dioxo-8-methylene-1,4-diazabicyclo[3.2.2]nonane

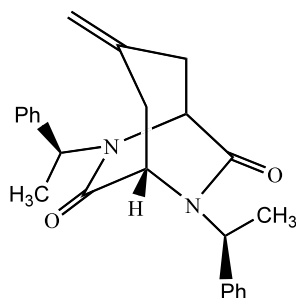
$[\alpha]_D^{25} = -243$ (*c* 1.02, $CHCl_3$)

Source of chirality: (*S*)-phenethylamine

Absolute configuration: 1*R*,4*R*,1'*S*

Fabio Piccinelli, Gianni Porzi,* Monica Sandri and Sergio Sandri*

Tetrahedron: Asymmetry 14 (2003) 393



$C_{24}H_{26}N_2O_2$

(3*S*,6*S*,1'*S*)-1,4-Bis-(1'-phenethyl)-2,5-dioxo-8-methylene-1,4-diazabicyclo[3.2.2]nonane

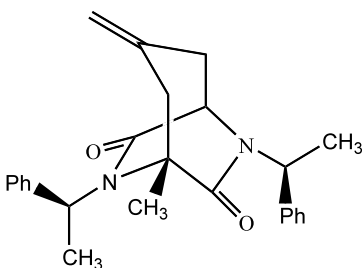
$[\alpha]_D^{25} = -165.9$ (*c* 1, $CHCl_3$)

Source of chirality: (*S*)-phenethylamine

Absolute configuration: 1*S*,4*S*,1'*S*

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Tetrahedron: Asymmetry 14 (2003) 393



$C_{25}H_{28}N_2O_2$

(3*R*,6*R*,1'*S*)-1,4-Bis-(1'-phenethyl)-2,5-dioxo-3-methyl-8-methylene-1,4-diazabicyclo[3.2.2]nonane

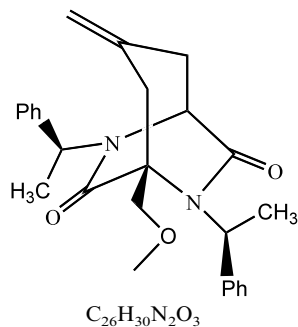
$[\alpha]_D^{25} = -89.7$ (*c* 1.46, $CHCl_3$)

Source of chirality: (*S*)-phenethylamine

Absolute configuration: 1*R*,4*R*,1'*S*

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Tetrahedron: Asymmetry 14 (2003) 393



(3*R*,6*S*,1'*S*)-1,4-Bis-(1'-phenethyl)-2,5-dioxo-8-methylene-3-methoxymethyl-1,4-diazabicyclo[3.2.2]nonane

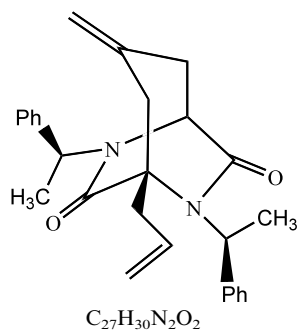
$[\alpha]_D^{25} +20.8$ (*c* 0.83, $CHCl_3$)

Source of chirality: (*S*)-phenethylamine

Absolute configuration: 1*R*,4*S*,1'*S*

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Tetrahedron: Asymmetry 14 (2003) 393



(3*R*,6*S*,1'*S*)-1,4-Bis-(1'-phenethyl)-3-allyl-2,5-dioxo-8-methylene-1,4-diazabicyclo[3.2.2]nonane

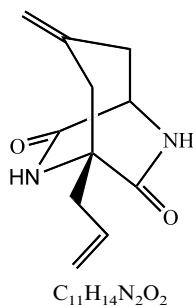
$[\alpha]_D^{25} +50.9$ (*c* 2.52, $CHCl_3$)

Source of chirality: (*S*)-phenethylamine

Absolute configuration: 1*R*,4*S*,1'*S*

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(3*S*,6*R*)-2,5-Dioxo-3-allyl-8-methylene-1,4-diazabicyclo[3.2.2]nonane

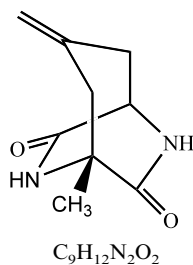
$[\alpha]_D^{25} -117.2$ (*c* 0.48, CH_3OH)

Source of chirality: (*S*)-phenethylamine

Absolute configuration: 1*S*,4*R*

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(3*R*,6*R*)-2,5-Dioxo-3-methyl-8-methylene-1,4-diazabicyclo[3.2.2]nonane

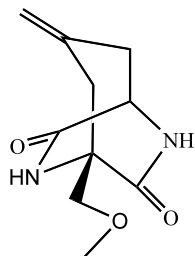
$[\alpha]_D^{25} -86$ (*c* 0.4, CH_3OH)

Source of chirality: (*S*)-phenethylamine

Absolute configuration: 1*R*,4*R*

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Tetrahedron: Asymmetry 14 (2003) 393



(3*S*,6*R*)-2,5-Dioxo-8-methylene-3-methoxymethyl-1,4-diazabicyclo[3.2.2]nonane

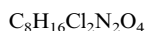
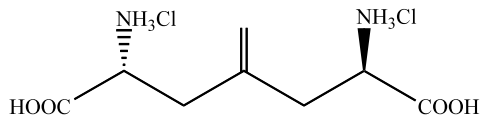
$[\alpha]_D^{25} -77.4$ (*c* 0.42, CH_3OH)

Source of chirality: (*S*)-phenethylamine

Absolute configuration: 1*S*,4*R*

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Tetrahedron: Asymmetry 14 (2003) 393



(2*R*,6*R*)-2,6-Diamino-4-methylene-1,7-heptanedioic acid dihydrochloride

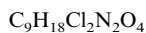
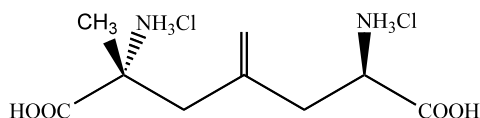
$[\alpha]_D^{25} +20.1$ (*c* 0.73, H_2O)

Source of chirality: (*S*)-phenethylamine

Absolute configuration: 2*R*,6*R*

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Tetrahedron: Asymmetry 14 (2003) 393



(2*R*,6*R*)-2,6-Diamino-4-methylene-1,7-heptanedioic acid dihydrochloride

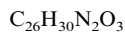
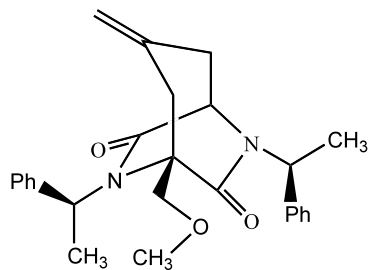
$[\alpha]_D^{25} +6.9$ (*c* 0.79, 1*N* HCl)

Source of chirality: (*S*)-phenethylamine

Absolute configuration: 2*R*,6*R*

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Tetrahedron: Asymmetry 14 (2003) 393



(3*S*,6*R*,1'*S*)-1,4-Bis-(1'-phenethyl)-2,5-dioxo-8-methylene-3-methoxymethyl-1,4-diazabicyclo[3.2.2]nonane

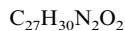
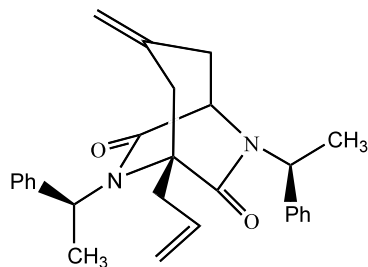
$[\alpha]_D^{25} -95.4$ (*c* 0.75, $CHCl_3$)

Source of chirality: (*S*)-phenethylamine

Absolute configuration: 1*S*,4*R*,1'*S*

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Tetrahedron: Asymmetry 14 (2003) 393



(3*S*,6*R*,1'*S*)-1,4-Bis-(1'-phenethyl)-3-allyl-2,5-dioxo-8-methylene-1,4-diazabicyclo[3.2.2]nonane

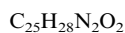
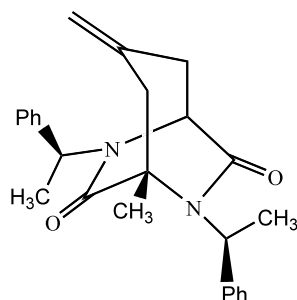
$[\alpha]_D^{25} -117.1$ (*c* 1.1, $CHCl_3$)

Source of chirality: (*S*)-phenethylamine

Absolute configuration: 1*S*,4*R*,1'*S*

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Tetrahedron: Asymmetry 14 (2003) 393



(3*S*,6*S*,1'*S*)-1,4-Bis-(1'-phenethyl)-2,5-dioxo-3-methyl-8-methylene-1,4-diazabicyclo[3.2.2]nonane

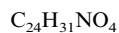
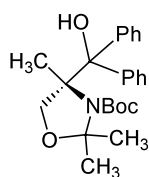
$[\alpha]_D^{25} -76.6$ (*c* 1.15, $CHCl_3$)

Source of chirality: (*S*)-phenethylamine

Absolute configuration: 1*S*,4*S*,1'*S*

Alberto Avenoza,* Jesús H. Busto, Carlos Cativiela,
Jesús M. Peregrina,* David Sucunza and María M. Zurbano

Tetrahedron: Asymmetry 14 (2003) 399



N-(*tert*-Butoxycarbonyl)-4-(hydroxydiphenylmethyl)-2,2,4-trimethyloxazolidine

E.e. >95%

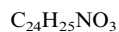
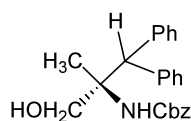
$[\alpha]_D^{25} = +54.1$ (*c* 1.10, MeOH)

Source of chirality: asymmetric synthesis

Absolute configuration: *R*

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Jesús M. Peregrina,* David Sucunza and María M. Zurbano

Tetrahedron: Asymmetry 14 (2003) 399



(1-Hydroxymethyl-1-methyl-2,2-diphenylethyl)carbamic acid benzyl ester

E.e. >95%

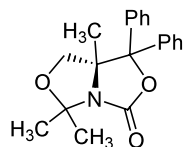
$[\alpha]_D^{25} = -2.5$ (*c* 1.02, MeOH)

Source of chirality: asymmetric synthesis

Absolute configuration: *S*

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Jesús M. Peregrina,* David Sucunza and María M. Zurbano

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$C_{20}H_{21}NO_3$

5,5,7a-Trimethyl-1,1-diphenyldihydrooxazolo[3,4-c]oxazol-3-one

E.e. >95%

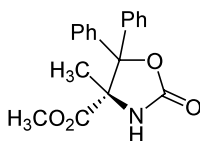
$[\alpha]_D^{25} = -0.8$ (c 1.02, MeOH)

Source of chirality: asymmetric synthesis

Absolute configuration: *R*

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Jesús M. Peregrina,* David Sucunza and María M. Zurbano

Tetrahedron: Asymmetry 14 (2003) 399



$C_{18}H_{17}NO_4$

4-Methyl-5,5-diphenyloxazolidin-2-one-4-carboxylic acid methyl ester

E.e. >95%

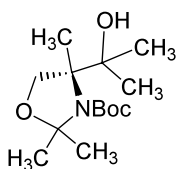
$[\alpha]_D^{25} = -15.2$ (c 1.20, MeOH)

Source of chirality: asymmetric synthesis

Absolute configuration: *S*

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Jesús M. Peregrina,* David Sucunza and María M. Zurbano

Tetrahedron: Asymmetry 14 (2003) 399



$C_{14}H_{27}NO_4$

N-(*tert*-Butoxycarbonyl)-4-(1-hydroxy-1-methylethyl)-2,2,4-trimethyloxazolidine

E.e. >95%

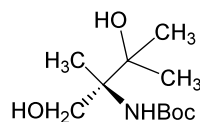
$[\alpha]_D^{25} = +4.1$ (c 0.66, MeOH)

Source of chirality: asymmetric synthesis

Absolute configuration: *R*

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Jesús M. Peregrina,* David Sucunza and María M. Zurbano

Tetrahedron: Asymmetry 14 (2003) 399



$C_{11}H_{23}NO_4$

(2-Hydroxy-1-hydroxymethyl-1,2-dimethylpropyl)carbamic acid *tert*-butyl ester

E.e. >95%

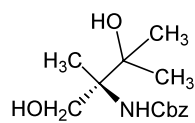
$[\alpha]_D^{25} = -3.1$ (c 1.07, MeOH)

Source of chirality: asymmetric synthesis

Absolute configuration: *R*

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Jesús M. Peregrina,* David Sucunza and María M. Zurbano

Tetrahedron: Asymmetry 14 (2003) 399



$C_{14}H_{21}NO_4$

(2-Hydroxy-1-hydroxymethyl-1,2-dimethylpropyl)carbamic acid benzyl ester

E.e. >95%

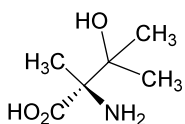
$[\alpha]_D^{25} = -5.8$ (c 1.34, MeOH)

Source of chirality: asymmetric synthesis

Absolute configuration: *R*

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$C_6H_{13}NO_3$

2-Amino-3-hydroxy-2,3-dimethylbutyric acid

E.e. >95%

$[\alpha]_D^{25} = +6.3$ (c 1.20, H₂O)

Source of chirality: asymmetric synthesis

Absolute configuration: *S*