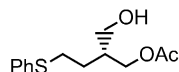


Stereochemistry abstracts

Kunihiko Takabe,* Hiroya Hashimoto, Hideki Sugimoto,
Masaru Nomoto and Hidemi Yoda

Tetrahedron: Asymmetry 15 (2004) 909



$C_{13}H_{18}O_3S$

2-Acetoxymethyl-4-phenylthio-1-butanol

Ee = 98%

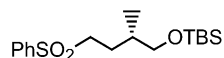
$[\alpha]_D^{24} -2.8$ (c 1.04, MeOH)

Source of chirality: enzymatic
desymmetrization

Absolute configuration: (R)

Kunihiko Takabe,* Hiroya Hashimoto, Hideki Sugimoto,
Masaru Nomoto and Hidemi Yoda

Tetrahedron: Asymmetry 15 (2004) 909



$C_{17}H_{30}O_3Si$

3-*tert*-Butyldimethylsilyloxymethyl-1-phenylsulfonylbutane

Ee = 98%

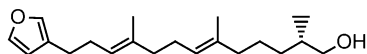
$[\alpha]_D^{20} -8.4$ (c 1.84, $CHCl_3$)

Source of chirality: enzymatic
desymmetrization

Absolute configuration: (S)

Kunihiko Takabe,* Hiroya Hashimoto, Hideki Sugimoto,
Masaru Nomoto and Hidemi Yoda

Tetrahedron: Asymmetry 15 (2004) 909



$C_{20}H_{32}O_2$

13-(3-Furyl)-2,6,10-trimethyl-6,10-tridecadien-1-ol

Ee = 98%

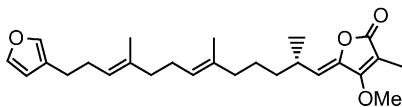
$[\alpha]_D^{21} -5.5$ (c 0.91, $CHCl_3$)

Source of chirality: enzymatic
desymmetrization

Absolute configuration: (S)

Kunihiko Takabe,* Hiroya Hashimoto, Hideki Sugimoto,
Masaru Nomoto and Hidemi Yoda

Tetrahedron: Asymmetry 15 (2004) 909



$C_{26}H_{36}O_4$

Variabilin methyl ether

Ee = 98%

20*Z*/20*E* = 2.8:1

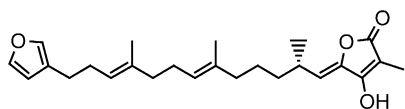
$[\alpha]_D^{21} -32.6$ (c 0.77, $CHCl_3$)

Source of chirality: enzymatic
desymmetrization

Absolute configuration: (S)

Kunihiko Takabe,* Hiroya Hashimoto, Hideki Sugimoto,
Masaru Nomoto and Hidemi Yoda

Tetrahedron: Asymmetry 15 (2004) 909



$C_{25}H_{34}O_4$

Variabilin

Ee = 98%

20Z/20E = 2.8:1

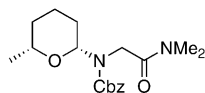
$[\alpha]_D^{21} -37.4$ (c 0.15, $CHCl_3$)

Source of chirality: enzymatic
desymmetrization

Absolute configuration: (S)

Darren J. Dixon,* Richard A. J. Horan and Nathaniel J. T. Monck

Tetrahedron: Asymmetry 15 (2004) 913



$C_{18}H_{26}N_2O_4$

(2R,6R)-Dimethylcarbamoylmethyl-(6-methyl-tetrahydro-pyran-2-yl)-carbamic acid benzyl ester

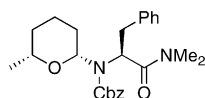
$[\alpha]_D^{25} = +25.6$ (c 1.04, $CHCl_3$)

Source of chirality: (R)-6-methyltetra-
hydropyran-2-ol

Absolute configuration: (2R,6R)

Darren J. Dixon,* Richard A. J. Horan and Nathaniel J. T. Monck

Tetrahedron: Asymmetry 15 (2004) 913



$C_{25}H_{32}N_2O_4$

(1S,2'R,6'R)-(1-Dimethylcarbamoyl-2-phenyl-ethyl)-(6'-methyl-tetrahydro-pyran-2'-yl)-carbamic acid benzyl ester

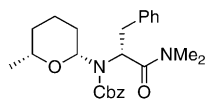
$[\alpha]_D^{25} = -111.0$ (c 1.65, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (1S,2'R,6'R)

Darren J. Dixon,* Richard A. J. Horan and Nathaniel J. T. Monck

Tetrahedron: Asymmetry 15 (2004) 913



$C_{25}H_{32}N_2O_4$

(1R,2'R,6'R)-(1-Dimethylcarbamoyl-2-phenyl-ethyl)-(6'-methyl-tetrahydro-pyran-2'-yl)-carbamic acid benzyl ester

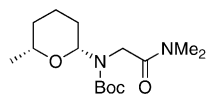
$[\alpha]_D^{25} = +62.5$ (c 1.26, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (1R,2'R,6'R)

Darren J. Dixon,* Richard A. J. Horan and Nathaniel J. T. Monck

Tetrahedron: Asymmetry 15 (2004) 913



$C_{15}H_{28}N_2O_4$

(2*R*,6*R*)-Dimethylcarbamoylmethyl-(6-methyl-tetrahydro-pyran-2-yl)-carbamic acid *tert*-butyl ester

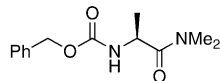
$[\alpha]_D^{25} = +16.9$ (*c* 1.02, $CHCl_3$)

Source of chirality: (*R*)-6-methyltetrahydro-pyran-2-ol

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

Darren J. Dixon,* Richard A. J. Horan and Nathaniel J. T. Monck

Tetrahedron: Asymmetry 15 (2004) 913



$C_{13}H_{18}N_2O_3$

(*S*)-(1-Dimethylcarbamoyl-ethyl)-carbamic acid benzyl ester

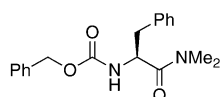
$[\alpha]_D^{25} = +17.8$ (*c* 1.164, $CHCl_3$)

Source of chirality: commercial source

Absolute configuration: (*S*)

Darren J. Dixon,* Richard A. J. Horan and Nathaniel J. T. Monck

Tetrahedron: Asymmetry 15 (2004) 913



$C_{19}H_{22}N_2O_3$

(*S*)-(1-Dimethylcarbamoyl-2-phenyl-ethyl)-carbamic acid benzyl ester

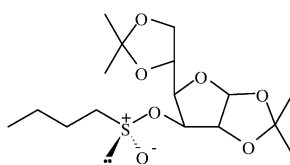
$[\alpha]_D^{25} = +35.4$ (*c* 1.326, $CHCl_3$)

Source of chirality: commercial source

Absolute configuration: (*S*)

Franck Daligault, Amélie Arboré, Caroline Nugier-Chauvin* and Henri Patin

Tetrahedron: Asymmetry 15 (2004) 917



$C_{16}H_{28}O_7S$

1,2:5,6-Di-O-isopropylidene- α -D-glucofuranosyl-(*S*)-butyl-sulfinate

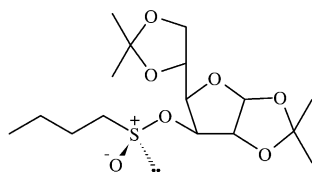
De $\geq 98\%$

$[\alpha]_D^{20} = -0.3$ (*c* 0.5, EtOH)

Source of chirality: diacetone-D-glucose

Franck Daligault, Amélie Arboré, Caroline Nugier-Chauvin* and Henri Patin

Tetrahedron: Asymmetry 15 (2004) 917



$C_{16}H_{28}O_7S$

1,2:5,6-Di-O-isopropylidene- α -D-glucofuranosyl-(*R*)-butyl-sulfinate

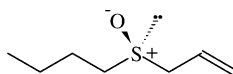
De $\geq 98\%$

$[\alpha]_D^{20} = +0.1$ (c 0.5, EtOH)

Source of chirality: diacetone-D-glucose

Franck Daligault, Amélie Arboré, Caroline Nugier-Chauvin* and Henri Patin

Tetrahedron: Asymmetry 15 (2004) 917



$C_7H_{14}OS$

(*R*)-Allyl-butyl-sulfoxide

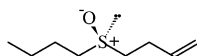
$[\alpha]_D^{20} = +0.6$ (c 0.6, EtOH); ee = 96%

(Chiralcel OB HPLC)

Absolute configuration: (*R*)

Franck Daligault, Amélie Arboré, Caroline Nugier-Chauvin* and Henri Patin

Tetrahedron: Asymmetry 15 (2004) 917



$C_8H_{16}OS$

(*R*)-But-1-enyl-butyl-sulfoxide

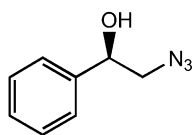
$[\alpha]_D^{20} = -3.7$ (c 0.6, EtOH); ee = 96%

(1H NMR with MPA)

Absolute configuration: (*R*)

Ahmed Kamal,* Ahmad Ali Shaik, Mahendra Sandbhor and M. Shaheer Malik

Tetrahedron: Asymmetry 15 (2004) 935



$C_8H_9N_3O$

(*R*)-2-Azido-1-phenyl-1-ethanol

Ee = 98% (by chiral HPLC)

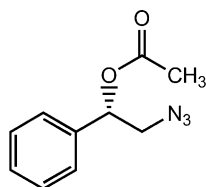
$[\alpha]_D^{25} -89.2$ (c 1, $CHCl_3$)

Source of chirality: enzymatic resolution

Absolute configuration: *R*

Ahmed Kamal,* Ahmad Ali Shaik, Mahendra Sandbhor and M. Shaheer Malik

Tetrahedron: Asymmetry 15 (2004) 935



(*S*)-2-Azido-1-phenyl-1-ethyl acetate

Ee = 94% (by chiral HPLC)

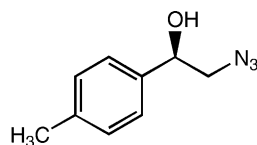
$[\alpha]_D^{25} +89.7$ (c 1, $CHCl_3$)

Source of chirality: enzymatic resolution

Absolute configuration: *S*

Ahmed Kamal,* Ahmad Ali Shaik, Mahendra Sandbhor and M. Shaheer Malik

Tetrahedron: Asymmetry 15 (2004) 935



(*R*)-2-Azido-1-(4-methylphenyl)-1-ethanol

Ee >99% (by chiral HPLC)

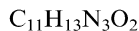
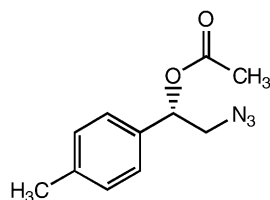
$[\alpha]_D^{25} -82.7$ (c 1.2, $CHCl_3$)

Source of chirality: enzymatic resolution

Absolute configuration: *R*

Ahmed Kamal,* Ahmad Ali Shaik, Mahendra Sandbhor and M. Shaheer Malik

Tetrahedron: Asymmetry 15 (2004) 935



(*S*)-2-Azido-1-(4-methylphenyl) ethyl acetate

Ee = 97% (by chiral HPLC)

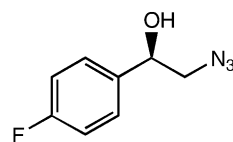
$[\alpha]_D^{25} +100.8$ (c 1, $CHCl_3$)

Source of chirality: enzymatic resolution

Absolute configuration: *S*

Ahmed Kamal,* Ahmad Ali Shaik, Mahendra Sandbhor and M. Shaheer Malik

Tetrahedron: Asymmetry 15 (2004) 935



(*R*)-2-Azido-(4-fluorophenyl)-1-ethanol

Ee = 88% (by chiral HPLC)

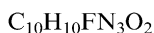
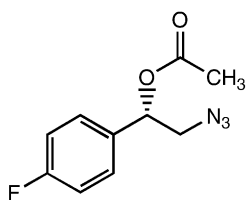
$[\alpha]_D^{25} -70.8$ (c 1.0, $CHCl_3$)

Source of chirality: enzymatic resolution

Absolute configuration: *R*

Ahmed Kamal,* Ahmad Ali Shaik, Mahendra Sandbhor and M. Shaheer Malik

Tetrahedron: Asymmetry 15 (2004) 935



(*S*)-2-Azido-1-(4-fluorophenyl) ethyl acetate

Ee >99% (by chiral HPLC)

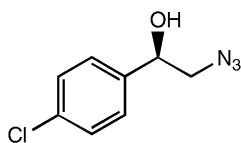
$[\alpha]_D^{25} +78.2$ (*c* 1.3, $CHCl_3$)

Source of chirality: enzymatic resolution

Absolute configuration: *S*

Ahmed Kamal,* Ahmad Ali Shaik, Mahendra Sandbhor and M. Shaheer Malik

Tetrahedron: Asymmetry 15 (2004) 935



(*R*)-2-Azido-1-(4-chlorophenyl)-1-ethanol

Ee = 90% (by chiral HPLC)

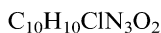
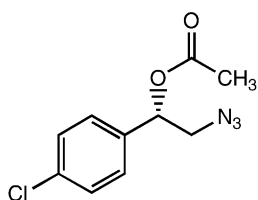
$[\alpha]_D^{25} -82.5$ (*c* 1.0, $CHCl_3$)

Source of chirality: enzymatic resolution

Absolute configuration: *R*

Ahmed Kamal,* Ahmad Ali Shaik, Mahendra Sandbhor and M. Shaheer Malik

Tetrahedron: Asymmetry 15 (2004) 935



(*S*)-2-Azido-1-(4-chlorophenyl) ethyl acetate

Ee >99% (by chiral HPLC)

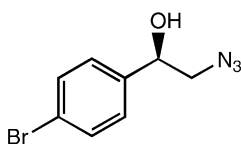
$[\alpha]_D^{25} +104.9$ (*c* 1, $CHCl_3$)

Source of chirality: enzymatic resolution

Absolute configuration: *S*

Ahmed Kamal,* Ahmad Ali Shaik, Mahendra Sandbhor and M. Shaheer Malik

Tetrahedron: Asymmetry 15 (2004) 935



(*R*)-2-Azido-(4-bromophenyl)-1-ethanol

Ee = 92% (by chiral HPLC)

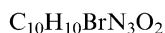
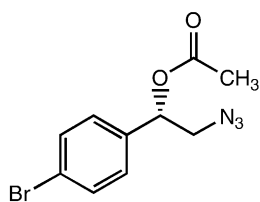
$[\alpha]_D^{25} -77.0$ (*c* 1.1, $CHCl_3$)

Source of chirality: enzymatic resolution

Absolute configuration: *R*

Ahmed Kamal,* Ahmad Ali Shaik, Mahendra Sandbhor and M. Shaheer Malik

Tetrahedron: Asymmetry 15 (2004) 935



(*S*)-2-Azido-1-(4-bromophenyl) ethyl acetate

Ee >99% (by chiral HPLC)

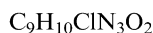
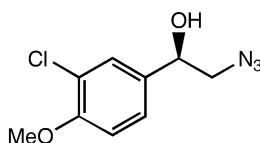
$[\alpha]_D^{25} +93.8$ (c 1.1, $CHCl_3$)

Source of chirality: enzymatic resolution

Absolute configuration: *S*

Ahmed Kamal,* Ahmad Ali Shaik, Mahendra Sandbhor and M. Shaheer Malik

Tetrahedron: Asymmetry 15 (2004) 935



(*R*)-2-Azido-1-(3-chloro-4-methoxyphenyl)-1-ethanol

Ee = 75% (by chiral HPLC)

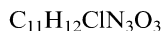
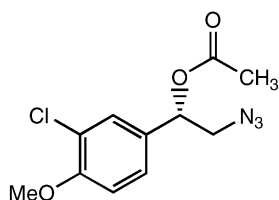
$[\alpha]_D^{25} -66.5$ (c 1.2, $CHCl_3$)

Source of chirality: enzymatic resolution

Absolute configuration: *R*

Ahmed Kamal,* Ahmad Ali Shaik, Mahendra Sandbhor and M. Shaheer Malik

Tetrahedron: Asymmetry 15 (2004) 935



(*S*)-2-Azido-1-(3-chloro-4-methoxyphenyl) ethyl acetate

Ee >99% (by chiral HPLC)

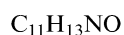
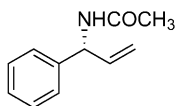
$[\alpha]_D^{25} +108.2$ (c 1.1, $CHCl_3$)

Source of chirality: enzymatic resolution

Absolute configuration: *S*

Daniele Castagnolo, Silvia Armaroli, Federico Corelli* and Maurizio Botta*

Tetrahedron: Asymmetry 15 (2004) 941



(*R*)-*N*-1-Acetyl-1-phenyl-2-propenylamine

Ee 98%

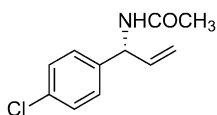
$[\alpha]_D^{20} +63.0$ (c 0.4, $CHCl_3$)

Source of chirality: chemical resolution with *Candida antarctica* lipase

Absolute configuration: *R*

Daniele Castagnolo, Silvia Armaroli, Federico Corelli* and Maurizio Botta*

Tetrahedron: Asymmetry 15 (2004) 941



$C_{11}H_{12}ClNO$

(*R*)-*N*-1-Acetyl-1-(4-chlorophenyl)-2-propenylamine

Ee 98%

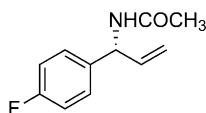
$[\alpha]_D^{20} +71.3$ (*c* 1.0, $CHCl_3$)

Source of chirality: chemical resolution
with *Candida antarctica* lipase

Absolute configuration: *R*

Daniele Castagnolo, Silvia Armaroli, Federico Corelli* and Maurizio Botta*

Tetrahedron: Asymmetry 15 (2004) 941



$C_{11}H_{12}FNO$

(*R*)-*N*-1-Acetyl-1-(4-fluorophenyl)-2-propenylamine

Ee 87%

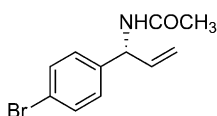
$[\alpha]_D^{20} +69.7$ (*c* 1.3, $CHCl_3$)

Source of chirality: chemical resolution
with *Candida antarctica* lipase

Absolute configuration: *R*

Daniele Castagnolo, Silvia Armaroli, Federico Corelli* and Maurizio Botta*

Tetrahedron: Asymmetry 15 (2004) 941



$C_{11}H_{12}BrNO$

(*R*)-*N*-1-Acetyl-1-(4-bromophenyl)-2-propenylamine

Ee 97%

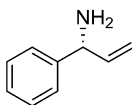
$[\alpha]_D^{20} +73.3$ (*c* 0.6, $CHCl_3$)

Source of chirality: chemical resolution
with *Candida antarctica* lipase

Absolute configuration: *R*

Daniele Castagnolo, Silvia Armaroli, Federico Corelli* and Maurizio Botta*

Tetrahedron: Asymmetry 15 (2004) 941



$C_9H_{11}N$

(*R*)-1-Phenyl-2-propenylamine

Ee 98%

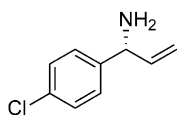
$[\alpha]_D^{20} +10.2$ (*c* 4.0, $CHCl_3$)

Source of chirality: (*R*)-*N*-1-acetyl-1-phenyl-2-propenylamine

Absolute configuration: *R*

Daniele Castagnolo, Silvia Armaroli, Federico Corelli* and Maurizio Botta*

Tetrahedron: Asymmetry 15 (2004) 941



$C_9H_{10}ClN$

(*R*)-1-(Chlorophenyl)-2-propenylamine

Ee 98%

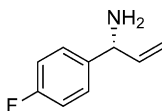
$[\alpha]_D^{20} +12.3$ (*c* 0.3, $CHCl_3$)

Source of chirality: (*R*)-*N*-1-acetyl-1-(4-chlorophenyl)-2-propenylamine

Absolute configuration: *R*

Daniele Castagnolo, Silvia Armaroli, Federico Corelli* and Maurizio Botta*

Tetrahedron: Asymmetry 15 (2004) 941



$C_9H_{10}FN$

(*R*)-1-(Fluorophenyl)-2-propenylamine

Ee 87%

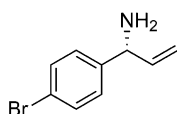
$[\alpha]_D^{20} +8.8$ (*c* 0.4, $CHCl_3$)

Source of chirality: (*R*)-*N*-1-acetyl-1-(4-fluorophenyl)-2-propenylamine

Absolute configuration: *R*

Daniele Castagnolo, Silvia Armaroli, Federico Corelli* and Maurizio Botta*

Tetrahedron: Asymmetry 15 (2004) 941



$C_9H_{10}BrN$

(*R*)-1-(Bromophenyl)-2-propenylamine

Ee 97%

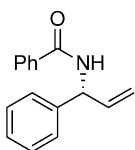
$[\alpha]_D^{20} +12.0$ (*c* 0.7, $CHCl_3$)

Source of chirality: (*R*)-*N*-1-acetyl-1-(4-bromophenyl)-2-propenylamine

Absolute configuration: *R*

Daniele Castagnolo, Silvia Armaroli, Federico Corelli* and Maurizio Botta*

Tetrahedron: Asymmetry 15 (2004) 941



$C_{16}H_{15}NO$

(*R*)-*N*-Benzoyl-1-phenyl-2-propenylamine

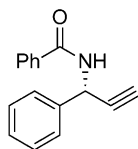
$[\alpha]_D^{20} +57.0$ (*c* 1.0, $CHCl_3$)

Source of chirality: (*R*)-1-phenyl-2-propenylamine or (*R*)-*N*-benzoyl-1-phenyl-2-propynylamine

Absolute configuration: *R*

Daniele Castagnolo, Silvia Armaroli, Federico Corelli* and Maurizio Botta*

Tetrahedron: Asymmetry 15 (2004) 941



$C_{16}H_{13}NO$

(*R*)-*N*-Benzoyl-1-phenyl-2-propynylamine

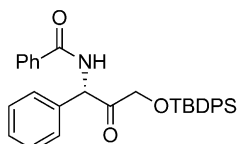
$[\alpha]_D^{20} +14.8$ (*c* 2.0, $CHCl_3$)

Source of chirality: (*R*)-1-phenyl-2-propynylamine

Absolute configuration: *R*

Daniele Castagnolo, Silvia Armaroli, Federico Corelli* and Maurizio Botta*

Tetrahedron: Asymmetry 15 (2004) 941



$C_{32}H_{33}NO_3Si$

(*S*)-*N*-1-(3-([(1-*tert*-Butyl)-1,1-diphenylsilyl]oxy)-2-oxo-1-phenylpropyl)-benzamide

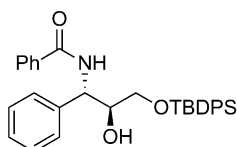
$[\alpha]_D^{20} +79.3$ (*c* 1.4, $CHCl_3$)

Source of chirality: (1*S*,2*R*)-*N*-1-(3-([(1-*tert*-butyl)-1,1-diphenylsilyl]oxy)-2-hydroxy-1-phenylpropyl)benzamide; (1*S*,2*S*)-*N*-1-(3-([(1-*tert*-butyl)-1,1-diphenylsilyl]oxy)-2-hydroxy-1-phenylpropyl)benzamide

Absolute configuration: *S*

Daniele Castagnolo, Silvia Armaroli, Federico Corelli* and Maurizio Botta*

Tetrahedron: Asymmetry 15 (2004) 941



$C_{32}H_{35}NO_3Si$

(1*S*,2*S*)-*N*-1-(3-([(1-*tert*-Butyl)-1,1-diphenylsilyl]oxy)-2-hydroxy-1-phenylpropyl)benzamide

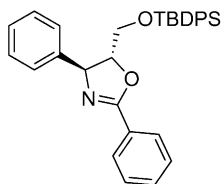
$[\alpha]_D^{20} -16.0$ (*c* 1.0, $CHCl_3$)

Source of chirality: (*S*)-*N*-1-(3-([(1-*tert*-butyl)-1,1-diphenylsilyl]oxy)-2-oxo-1-phenylpropyl)benzamide

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

Daniele Castagnolo, Silvia Armaroli, Federico Corelli* and Maurizio Botta*

Tetrahedron: Asymmetry 15 (2004) 941



$C_{32}H_{33}NO_2Si$

(4*S*,5*R*)-5-([(1-(*tert*-Butyl)-1,1-diphenylsilyl]oxy)-methyl)-2,4-diphenyl-1,3-oxazoline

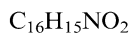
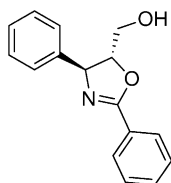
$[\alpha]_D^{20} -29.2$ (*c* 1.9, $CHCl_3$)

Source of chirality: (1*S*,2*S*)-*N*-(1-{3-([(1-*tert*-butyl)-1,1-diphenylsilyl]oxy)-2-hydroxy-1-phenylpropyl) benzamide

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

Daniele Castagnolo, Silvia Armaroli, Federico Corelli* and Maurizio Botta*

Tetrahedron: Asymmetry 15 (2004) 941



(4*S*,5*R*)-[2,4-Diphenyl-(5-hydroxymethyl)]-1,3-oxazoline

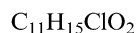
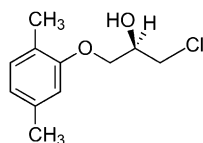
$[\alpha]_D^{20} -26.6$ (*c* 1.4, $CHCl_3$)

Source of chirality: (4*S*,5*R*)-5-([1-(*tert*-butyl)-1,1-diphenylsilyl]-oxy-methyl)-2,4-diphenyl-1,3-oxazoline

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

José D. Carballeira, Emilio Álvarez, Mercedes Campillo, Leonardo Pardo and José V. Sinisterra*

Tetrahedron: Asymmetry 15 (2004) 951



(2*R*)-(-)-1-Chloro-3-(2,5-dimethylphenoxy)propan-2-ol

Ee = 99%

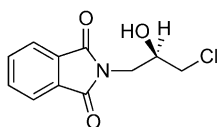
$[\alpha]_D^{25} -7.2$ (*c* 0.46, EtOH)

Source of chirality: enzymatic reduction of ketone

Absolute configuration: 2*R*

José D. Carballeira, Emilio Álvarez, Mercedes Campillo, Leonardo Pardo and José V. Sinisterra*

Tetrahedron: Asymmetry 15 (2004) 951



(2*R*)-(+)-1-Chloro-3-phthalimidyl-propan-2-ol

Ee = 93%

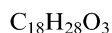
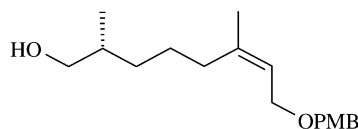
$[\alpha]_D^{25} +16.2$ (*c* 0.48, EtOH)

Source of chirality: enzymatic reduction of ketone

Absolute configuration: 2*R*

S. Nanda and A. Ian Scott*

Tetrahedron: Asymmetry 15 (2004) 963



(*Z*)-(*R*)-8-(4-Methoxy-benzyloxy)-2,6-dimethyl-oct-6-en-1-ol

Ee: 94%

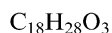
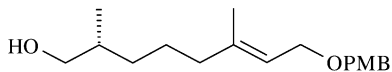
$[\alpha]_D^{25} = +9.9$ (*c* 1.4, $CHCl_3$)

Source of chirality: enzymatic synthesis

Absolute configuration: *R*

S. Nanda and A. Ian Scott*

Tetrahedron: Asymmetry 15 (2004) 963



(*E*)-(*R*)-8-(4-Methoxy-benzyloxy)-2,6-dimethyl-oct-6-en-1-ol

Ee: 94%

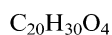
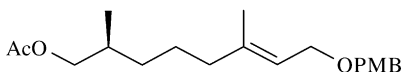
$[\alpha]_D^{25} = +11.8$ (c 1.0, $CHCl_3$)

Source of chirality: enzymatic synthesis

Absolute configuration: *R*

S. Nanda and A. Ian Scott*

Tetrahedron: Asymmetry 15 (2004) 963



Acetic acid (*E*)-(*S*)-8-(4-methoxy-benzyloxy)-2,6-dimethyl-oct-6-enyl ester

Ee: 94%

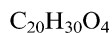
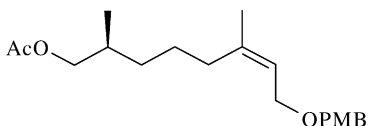
$[\alpha]_D^{25} = -3.2$ (c 1.2, $CHCl_3$)

Source of chirality: enzymatic synthesis

Absolute configuration: *S*

S. Nanda and A. Ian Scott*

Tetrahedron: Asymmetry 15 (2004) 963



(*Z*)-(*S*)-8-(4-Methoxy-benzyloxy)-2,6-dimethyl-oct-6-en-1-ol

Ee: 94%

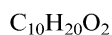
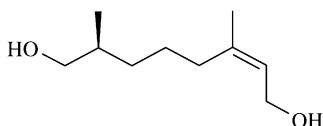
$[\alpha]_D^{25} = -3.8$ (c 1.8, $CHCl_3$)

Source of chirality: enzymatic synthesis

Absolute configuration: *S*

S. Nanda and A. Ian Scott*

Tetrahedron: Asymmetry 15 (2004) 963



(*Z*)-(*S*)-3,7-Dimethyl-oct-2-ene-1,8-diol

Ee: 94%

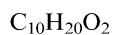
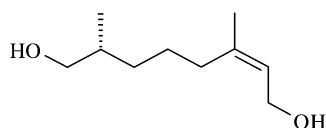
$[\alpha]_D^{25} = -7.8$ (c 2.0, $CHCl_3$)

Source of chirality: enzymatic synthesis

Absolute configuration: *S*

S. Nanda and A. Ian Scott*

Tetrahedron: Asymmetry 15 (2004) 963



(Z)-(R)-3,7-Dimethyl-oct-2-ene-1,8-diol

Ee: 92%

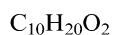
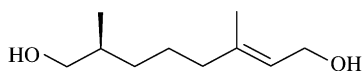
$[\alpha]_D^{25} = +8.0$ (c 1.8, $CHCl_3$)

Source of chirality: enzymatic synthesis

Absolute configuration: R

S. Nanda and A. Ian Scott*

Tetrahedron: Asymmetry 15 (2004) 963



(E)-(S)-3,7-Dimethyl-oct-2-ene-1,8-diol

Ee: 95%

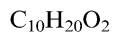
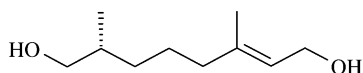
$[\alpha]_D^{25} = -6.1$ (c 3.0, $CHCl_3$)

Source of chirality: enzymatic synthesis

Absolute configuration: S

S. Nanda and A. Ian Scott*

Tetrahedron: Asymmetry 15 (2004) 963



(E)-(R)-3,7-Dimethyl-oct-2-ene-1,8-diol

Ee: 95%

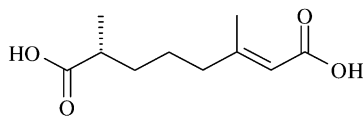
$[\alpha]_D^{25} = +6.7$ (c 2.8, $CHCl_3$)

Source of chirality: enzymatic synthesis

Absolute configuration: R

S. Nanda and A. Ian Scott*

Tetrahedron: Asymmetry 15 (2004) 963



(E)-(R)-3,7-Dimethyl-oct-2-enedioic acid

Ee: 95%

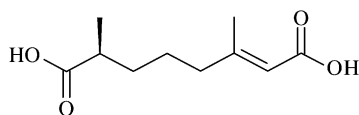
$[\alpha]_D^{25} = -10.5$ (c 4.2, $CHCl_3$)

Source of chirality: enzymatic synthesis

Absolute configuration: R

S. Nanda and A. Ian Scott*

Tetrahedron: Asymmetry 15 (2004) 963



$C_{10}H_{16}O_4$

(*E*)-(*S*)-3,7-Dimethyl-oct-2-enedioic acid

Ee: 95%

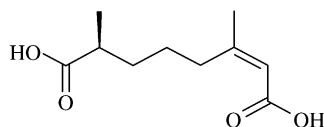
$[\alpha]_D^{25} = +10.1$ ($c = 0.9$, $CHCl_3$)

Source of chirality: enzymatic synthesis

Absolute configuration: *S*

S. Nanda and A. Ian Scott*

Tetrahedron: Asymmetry 15 (2004) 963



$C_{10}H_{16}O_4$

(*Z*)-(*S*)-3,7-Dimethyl-oct-2-enedioic acid

Ee: 95%

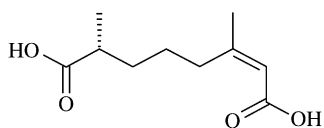
$[\alpha]_D^{25} = +11.2$ ($c 1.5$, $CHCl_3$)

Source of chirality: enzymatic synthesis

Absolute configuration: *S*

S. Nanda and A. Ian Scott*

Tetrahedron: Asymmetry 15 (2004) 963



$C_{10}H_{16}O_4$

(*Z*)-(*R*)-3,7-Dimethyl-oct-2-enedioic acid

Ee: 95%

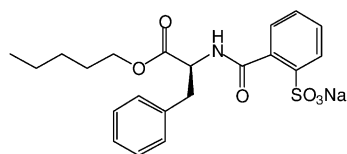
$[\alpha]_D^{25} = -11.5$ ($c 2.0$, $CHCl_3$)

Source of chirality: enzymatic synthesis

Absolute configuration: *R*

Krystyna Baczko, Chantal Larpent* and Philippe Lesot*

Tetrahedron: Asymmetry 15 (2004) 971



$C_{21}H_{24}NNaO_6S$

Sodium, 2-(1-pentyloxycarbonyl-2*S*-phenyl-ethyl carbamoyl)-benzene sulfonate

$[\alpha]_D = +27.6$, $[\alpha]_{436} = +62.9$,

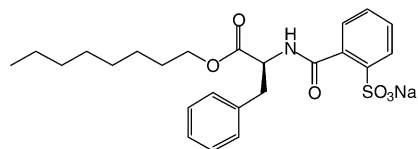
$[\alpha]_{365} = +115.9$ ($c 1.5$, EtOH 96%)

Source of chirality: L-phenylalanine

Absolute configuration: *S*

Krystyna Baczko, Chantal Larpent* and Philippe Lesot*

Tetrahedron: Asymmetry 15 (2004) 971



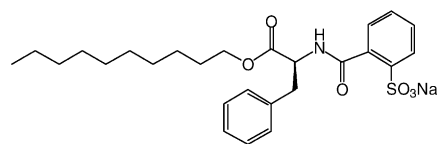
$C_{24}H_{30}NNaO_6S$

Sodium, 2-(1-octyloxycarbonyl-2*S*-phenyl-ethyl carbamoyl)-benzene sulfonate

$[\alpha]_D = +29.6$, $[\alpha]_{436} = +64.9$,
 $[\alpha]_{365} = +118.7$ (*c* 1.5, EtOH 96%)
Source of chirality: L-phenylalanine
Absolute configuration: *S*

Krystyna Baczko, Chantal Larpent* and Philippe Lesot*

Tetrahedron: Asymmetry 15 (2004) 971



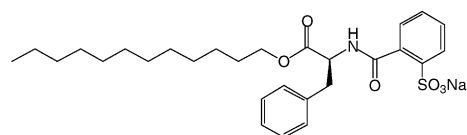
$C_{26}H_{34}NNaO_6S$

Sodium, 2-(1-decyloxycarbonyl-2*S*-phenyl-ethyl carbamoyl)-benzene sulfonate

$[\alpha]_D = +26.4$, $[\alpha]_{436} = +59.4$,
 $[\alpha]_{365} = +108.0$ (*c* 1.5, EtOH 96%)
Source of chirality: L-phenylalanine
Absolute configuration: *S*

Krystyna Baczko, Chantal Larpent* and Philippe Lesot*

Tetrahedron: Asymmetry 15 (2004) 971



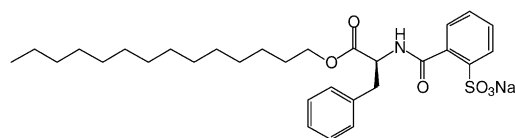
$C_{28}H_{38}NNaO_6S$

Sodium, 2-(1-dodecyloxycarbonyl-2*S*-phenyl-ethyl carbamoyl)-benzene sulfonate

$[\alpha]_D = +24.7$, $[\alpha]_{436} = +55.6$,
 $[\alpha]_{365} = +101.5$ (*c* 1.5, EtOH 96%)
Source of chirality: L-phenylalanine
Absolute configuration: *S*

Krystyna Baczko, Chantal Larpent* and Philippe Lesot*

Tetrahedron: Asymmetry 15 (2004) 971



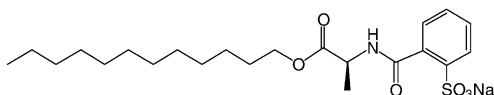
$C_{30}H_{42}NNaO_6S$

Sodium, 2-(1-tetradecyloxycarbonyl-2*S*-phenyl-ethyl carbamoyl)-benzene sulfonate

$[\alpha]_D = +25.8$, $[\alpha]_{436} = +57.5$,
 $[\alpha]_{365} = +104.2$ (*c* 1.5, EtOH 96%)
Source of chirality: L-phenylalanine
Absolute configuration: *S*

Krystyna Baczko, Chantal Larpent* and Philippe Lesot*

Tetrahedron: Asymmetry 15 (2004) 971



Sodium, 2-(1-dodecyloxycarbonyl-2*S*-ethyl carbamoyl)-benzene sulfonate

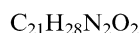
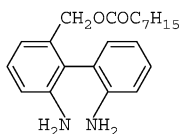
$[\alpha]_D = +10.4$, $[\alpha]_{436} = +36.0$,
 $[\alpha]_{365} = +49.3$ (*c* 1.5, EtOH 96%)

Source of chirality: L-alanine

Absolute configuration: *S*

Romana Andreani, Cecilia Bombelli, Stefano Borocci, Juri Lah, Giovanna Mancini,* Paolo Mencarelli, Gorazd Vesnaver and Claudio Villani

Tetrahedron: Asymmetry 15 (2004) 987

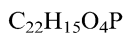
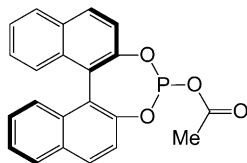


2,2'-Diamino-6-(octanoyloxymethyl)biphenyl

$[\theta]$ (grad cm² dmol⁻¹) = -51,003.6
 $(\lambda = 216.4 \text{ nm})$; 37,387.4 ($\lambda = 239.7 \text{ nm}$);
 5888.6 ($\lambda = 282.6 \text{ nm}$);
 -10,400.7 ($\lambda = 305.6 \text{ nm}$)

Andrei Korostylev,* Axel Monsees, Christine Fischer and Armin Börner*

Tetrahedron: Asymmetry 15 (2004) 1001

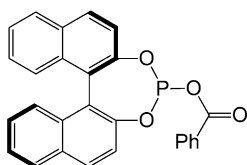


(*R*)-Acetyl-(1,1'-binaphth-2,2'-diyl)phosphite

De >99%, ee >99%
 $[\alpha]_D^{23} = -463.6$ (*c* 1.07, CH₂Cl₂)
 Source of chirality: enantiopure BINOL
 Absolute configuration: *R*

Andrei Korostylev,* Axel Monsees, Christine Fischer and Armin Börner*

Tetrahedron: Asymmetry 15 (2004) 1001

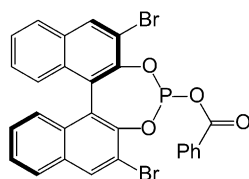


(*R*)-Benzoyl-(1,1'-binaphthyl-2,2'-diyl)phosphite

De >99%, ee >99%
 $[\alpha]_D^{22} = -371.0$ (*c* 0.5, CH₂Cl₂)
 Source of chirality: enantiopure BINOL
 Absolute configuration: *R*

Andrei Korostylev,* Axel Monsees, Christine Fischer and Armin Börner*

Tetrahedron: Asymmetry 15 (2004) 1001



(*R*)-Benzoyl-(3,3'-dibromo-1,1'-binaphthyl-2,2'-diyl)phosphite

De >99%, ee >99%

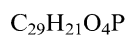
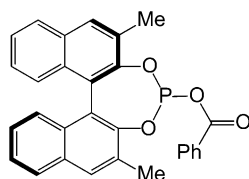
$[\alpha]_D^{21} = -375.3$ (*c* 0.64, CH_2Cl_2)

Source of chirality: enantiopure BINOL

Absolute configuration: *R*

Andrei Korostylev,* Axel Monsees, Christine Fischer and Armin Börner*

Tetrahedron: Asymmetry 15 (2004) 1001



(*R*)-Benzoyl-(3,3'-dimethyl-1,1'-binaphthyl-2,2'-diyl)phosphite

De >99%, ee >99%

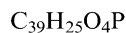
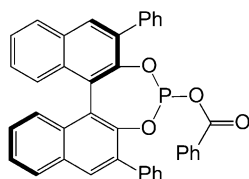
$[\alpha]_D^{21} = -351.4$ (*c* 0.46, CH_2Cl_2)

Source of chirality: enantiopure BINOL

Absolute configuration: *R*

Andrei Korostylev,* Axel Monsees, Christine Fischer and Armin Börner*

Tetrahedron: Asymmetry 15 (2004) 1001



(*R*)-Benzoyl-(3,3'-diphenyl-1,1'-binaphthyl-2,2'-diyl)phosphite

De >99%, ee >99%

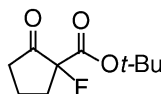
$[\alpha]_D^{21} = -324.7$ (*c* 0.38, CH_2Cl_2)

Source of chirality: enantiopure BINOL

Absolute configuration: *R*

Jun-An Ma and Dominique Cahard*

Tetrahedron: Asymmetry 15 (2004) 1007



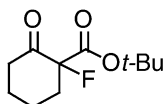
1-Fluoro-2-oxo-cyclopentanecarboxylic acid *tert*-butyl ester

Ee = 80%

$[\alpha]_D^{20} = +68.0$ (*c* 1.23, $CHCl_3$)

Jun-An Ma and Dominique Cahard*

Tetrahedron: Asymmetry 15 (2004) 1007



$C_{11}H_{17}FO_3$

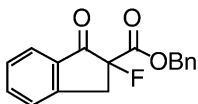
1-Fluoro-2-oxo-cyclohexanecarboxylic acid *tert*-butyl ester

Ee = 52%

$[\alpha]_D^{20} = +65.2$ (c 1.2, $CHCl_3$)

Jun-An Ma and Dominique Cahard*

Tetrahedron: Asymmetry 15 (2004) 1007



$C_{17}H_{13}FO_3$

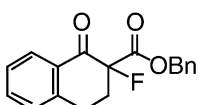
2-Fluoro-1-oxo-indan-2-carboxylic acid benzyl ester

Ee = 35%

$[\alpha]_D^{20} = -6.0$ (c 1.99, MeOH)

Jun-An Ma and Dominique Cahard*

Tetrahedron: Asymmetry 15 (2004) 1007



$C_{18}H_{15}FO_3$

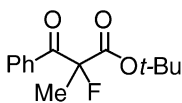
2-Fluoro-1-oxo-1,2,3,4-tetrahydro-naphthalene-2-carboxylic acid benzyl ester

Ee = 38%

$[\alpha]_D^{20} = +24.0$ (c 1.2, MeOH)

Jun-An Ma and Dominique Cahard*

Tetrahedron: Asymmetry 15 (2004) 1007



$C_{14}H_{17}FO_3$

2-Fluoro-2-methyl-3-oxo-3-phenyl-propionic acid *tert*-butyl ester

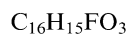
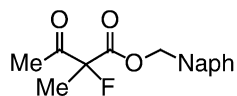
Ee = 43%

$[\alpha]_D^{20} = -10.9$ (c 0.55, $CHCl_3$)

Absolute configuration: (*S*)

Jun-An Ma and Dominique Cahard*

Tetrahedron: Asymmetry 15 (2004) 1007



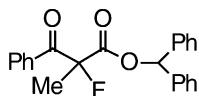
2-Fluoro-2-methyl-3-oxo-butyl naphthalen-1-ylmethyl ester

Ee = 40%

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

Jun-An Ma and Dominique Cahard*

Tetrahedron: Asymmetry 15 (2004) 1007



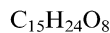
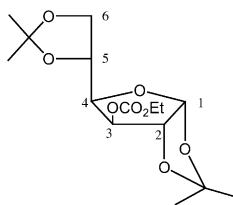
2-Fluoro-2-methyl-3-oxo-3-phenyl-propyl benzhydrylester

Ee = 52%

$[\alpha]_D^{20} = -20.5$ (c 1.92, MeOH)

René Csuk,* Galina Vasilewa and Christoph Wagner

Tetrahedron: Asymmetry 15 (2004) 1013



3-O-Carbethoxy-1,2:5,6-di-O-isopropylidene-α-D-glucopyranose

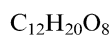
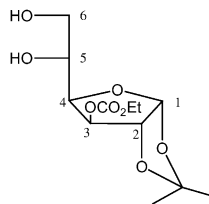
$[\alpha]_D = -37.9$ (c 1.02, CHCl₃)

Source of chirality: D-glucose

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

René Csuk,* Galina Vasilewa and Christoph Wagner

Tetrahedron: Asymmetry 15 (2004) 1013



3-O-Carbethoxy-1,2-O-isopropylidene-α-D-glucopyranose

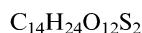
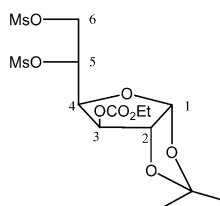
$[\alpha]_D = +13.5$ (c 1.2, CHCl₃)

Source of chirality: D-glucose

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

René Csuk,* Galina Vasilewa and Christoph Wagner

Tetrahedron: Asymmetry 15 (2004) 1013



3-*O*-Carbethoxy-1,2-*O*-isopropylidene-5,6-di-*O*-methanesulfonyl- α -D-glucofuranose

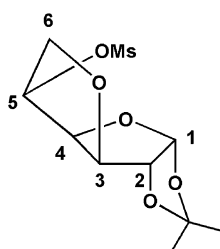
$[\alpha]_D = -16.6$ (*c* 1.0, $CHCl_3$)

Source of chirality: D-glucose

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

René Csuk,* Galina Vasilewa and Christoph Wagner

Tetrahedron: Asymmetry 15 (2004) 1013



3,6-Anhydro-1,2-*O*-isopropylidene-5-*O*-methanesulfonyl- α -D-glucofuranose

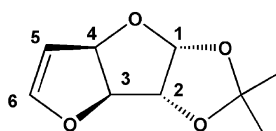
$[\alpha]_D = +58.0$ (*c* 1.5, $CHCl_3$)

Source of chirality: D-glucose, nucleophilic substitution

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

René Csuk,* Galina Vasilewa and Christoph Wagner

Tetrahedron: Asymmetry 15 (2004) 1013



3,6-Anhydro-5-deoxy-1,2-*O*-isopropylidene- α -D-xylo-hex-5-enofuranose

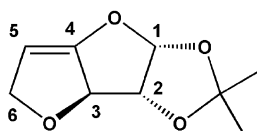
$[\alpha]_D = +9.5$ (*c* 3.4, $CHCl_3$)

Source of chirality: D-glucose

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

René Csuk,* Galina Vasilewa and Christoph Wagner

Tetrahedron: Asymmetry 15 (2004) 1013

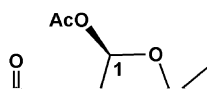


3,6-Anhydro-5-deoxy-1,2-*O*-isopropylidene- α -D-erythro-hex-4-enofuranose

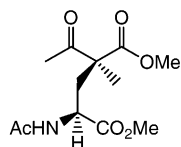
$[\alpha]_D = +68.0$ (*c* 1.0, $CHCl_3$)

Source of chirality: D-glucose

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


 $[\alpha]_D = +159.8$ (*c* 1.1, CHCl₃)

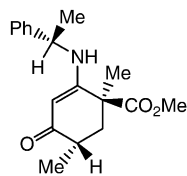
Source of chirality: D-glucose

Absolute configuration: 1*R* 2*R* 3*R*C₁₂H₁₉NO₆

2-Acetyl-4-acetylamino-2-methyl-pentanedioic acid dimethyl ester

 $[\alpha]_D = -5.3$ (*c* 1.7, MeOH)

Source of chirality: asymmetric synthesis

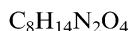
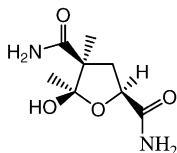
Absolute configuration: (2*S*,4*S*)C₁₈H₂₃NO₃

1,5-Dimethyl-4-oxo-2-(1-phenyl-ethylamino)-cyclohex-2-enecarboxylic acid methyl ester

 $[\alpha]_D = -316.7$ (*c* 1.68, MeOH)
Source of chirality: (*S*)-1-phenylethylamineAbsolute configuration: (1*S*,1'*S*,5*S*)

Frédéric Hendra, Mohammed Nour,* Isabelle Baglin,
Georges Morgant and Christian Cavé*

Tetrahedron: Asymmetry 15 (2004) 1027



5-Hydroxy-4,5-dimethyl-tetrahydro-furan-2,4-dicarboxylic acid diamide

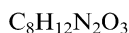
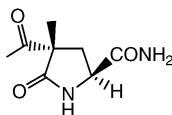
$[\alpha]_D = -12$ (*c* 0.25, MeOH)

Source of chirality: asymmetric synthesis

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

Frédéric Hendra, Mohammed Nour,* Isabelle Baglin,
Georges Morgant and Christian Cavé*

Tetrahedron: Asymmetry 15 (2004) 1027



4-Acetyl-4-methyl-5-oxo-pyrrolidine-2-carboxylic acid amide

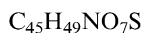
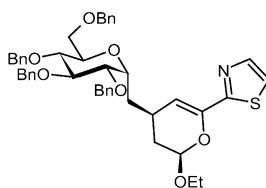
$[\alpha]_D = -15.8$ (*c* 4.425, MeOH)

Source of chirality: asymmetric synthesis

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

Petr Štěpánek, Ondřej Vích, Ladislav Kniežo,* Hana Dvořáková and
Pavel Vojtišek

Tetrahedron: Asymmetry 15 (2004) 1033



(2*R*,4*R*)-4-(2',6'-Anhydro-3',4',5',7'-tetra-*O*-benzyl-1'-deoxy-*D*-glycero-*D*-ido-heptitol-1'-yl)-2-ethoxy-6-(2-thiazolyl)-3,4-dihydro-2*H*-pyran

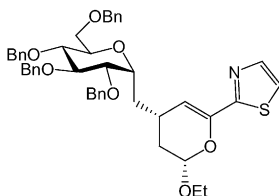
$[\alpha]_D^{20} = +35.2$ (*c* 1.0, $CHCl_3$)

Source of chirality: synthesis from *D*-glucose

Absolute configuration: 2*R*,4*R*

Petr Štěpánek, Ondřej Vích, Ladislav Kniežo,* Hana Dvořáková and
Pavel Vojtišek

Tetrahedron: Asymmetry 15 (2004) 1033



(2*S*,4*S*)-4-(2',6'-Anhydro-3',4',5',7'-tetra-*O*-benzyl-1'-deoxy-*D*-glycero-*D*-ido-heptitol-1'-yl)-2-ethoxy-6-(2-thiazolyl)-3,4-dihydro-2*H*-pyran

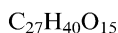
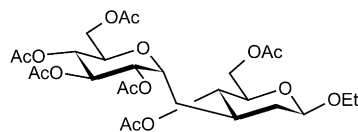
$[\alpha]_D^{20} = +39.1$ (*c* 1.0, $CHCl_3$)

Source of chirality: synthesis from *D*-glucose

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

Petr Štěpánek, Ondřej Vích, Ladislav Kniežo,* Hana Dvořáková and Pavel Vojtíšek

Tetrahedron: Asymmetry 15 (2004) 1033



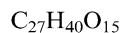
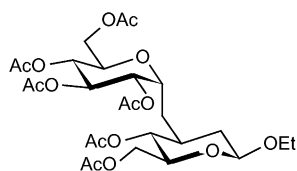
Ethyl 2,3-dideoxy-3-C-(2',6'-anhydro-3',4',5',7'-tetra-*O*-acetyl-1'-deoxy-D-glycero-D-ido-heptitol-1'-yl)-4,6-di-*O*-acetyl- β -D-arabino-hexopyranoside

$[\alpha]_D^{20} = +21.3$ (*c* 1, $CHCl_3$)

Source of chirality: synthesis from D-glucose

Petr Štěpánek, Ondřej Vích, Ladislav Kniežo,* Hana Dvořáková and Pavel Vojtíšek

Tetrahedron: Asymmetry 15 (2004) 1033



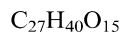
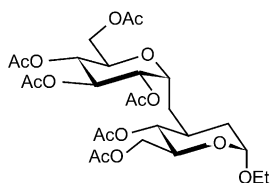
Ethyl 2,3-dideoxy-3-C-(2',6'-anhydro-3',4',5',7'-tetra-*O*-acetyl-1'-deoxy-D-glycero-D-ido-heptitol-1'-yl)-4,6-di-*O*-acetyl- β -L-arabino-hexopyranoside

$[\alpha]_D^{20} = +85.9$ (*c* 1, $CHCl_3$)

Source of chirality: synthesis from D-glucose

Petr Štěpánek, Ondřej Vích, Ladislav Kniežo,* Hana Dvořáková and Pavel Vojtíšek

Tetrahedron: Asymmetry 15 (2004) 1033



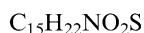
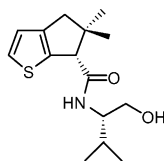
Ethyl 2,3-dideoxy-3-C-(2',6'-anhydro-3',4',5',7'-tetra-*O*-acetyl-1'-deoxy-D-glycero-D-ido-heptitol-1'-yl)-4,6-di-*O*-acetyl- α -L-arabino-hexopyranoside

$[\alpha]_D^{20} = +21.5$ (*c* 1, $CHCl_3$)

Source of chirality: synthesis from D-glucose

Bianca-Flavia Bonini, Laurent Giordano, Mariafrancesca Fochi, Mauro Comes-Franchini, Luca Bernardi, Elena Capitò and Alfredo Ricci*

Tetrahedron: Asymmetry 15 (2004) 1043



(6*R*)-(+)-*N*-[(1*S*)-1-(Hydroxymethyl)-2-methylpropyl]-5,5-dimethyl-5,6-dihydro-4*H*-cyclopenta[*b*]thiophene-6-carboxamide

$[\alpha]_D^{20} +55.7$ (*c* 0.5, $CHCl_3$)

De >99

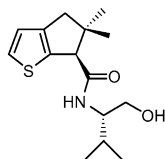
Ee >99

Source of chirality: natural pool

Absolute configuration: (6*R*,1'*S*)

Bianca-Flavia Bonini, Laurent Giordano, Mariafrancesca Fochi,
Mauro Comes-Franchini, Luca Bernardi, Elena Capitò and
Alfredo Ricci*

Tetrahedron: Asymmetry 15 (2004) 1043



$C_{15}H_{22}NO_2S$

(6S)-(-)-N-[(1S)-1-(Hydroxymethyl)-2-methylpropyl]-5,5-dimethyl-5,6-dihydro-4H-cyclopenta[b]thiophene-6-carboxamide

$[\alpha]_D^{20} -86.7$ (c 0.5, $CHCl_3$)

De >99

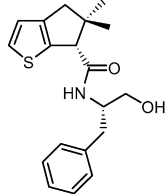
Ee >99

Source of chirality: natural pool

Absolute configuration: (6S,1'S)

Bianca-Flavia Bonini, Laurent Giordano, Mariafrancesca Fochi,
Mauro Comes-Franchini, Luca Bernardi, Elena Capitò and
Alfredo Ricci*

Tetrahedron: Asymmetry 15 (2004) 1043



$C_{19}H_{22}NO_2S$

(6R)-(+)-N-[(1S)-1-Benzyl-2-hydroxyethyl]-5,5-dimethyl-5,6-dihydro-4H-cyclopenta[b]thiophene-6-carboxamide

$[\alpha]_D^{20} +38.9$ (c 0.5, $CHCl_3$)

De >99

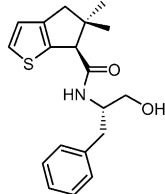
Ee >99

Source of chirality: natural pool

Absolute configuration: (6R,1'S)

Bianca-Flavia Bonini, Laurent Giordano, Mariafrancesca Fochi,
Mauro Comes-Franchini, Luca Bernardi, Elena Capitò and
Alfredo Ricci*

Tetrahedron: Asymmetry 15 (2004) 1043



$C_{19}H_{22}NO_2S$

(6S)-(-)-N-[(1S)-1-Benzyl-2-hydroxyethyl]-5,5-dimethyl-5,6-dihydro-4H-cyclopenta[b]thiophene-6-carboxamide

$[\alpha]_D^{20} -61.7$ (c 0.5, $CHCl_3$)

De >99

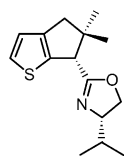
Ee >99

Source of chirality: natural pool

Absolute configuration: (6S,1'S)

Bianca-Flavia Bonini, Laurent Giordano, Mariafrancesca Fochi,
Mauro Comes-Franchini, Luca Bernardi, Elena Capitò and
Alfredo Ricci*

Tetrahedron: Asymmetry 15 (2004) 1043



$C_{15}H_{21}NOS$

(6R)-(-)-2-(5,5-Dimethyl-5,6-dihydro-4H-cyclopenta[b]thiophen-6-yl)-(4S)-4-isopropyl-4,5-dihydro-1,3-oxazole

$[\alpha]_D^{20} -68.0$ (c 0.5, $CHCl_3$)

De >99

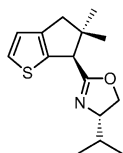
Ee >99

Source of chirality: natural pool

Absolute configuration: (6R,4'S)

Bianca-Flavia Bonini, Laurent Giordano, Mariafrancesca Fochi,
Mauro Comes-Franchini, Luca Bernardi, Elena Capitò and
Alfredo Ricci*

Tetrahedron: Asymmetry 15 (2004) 1043



$C_{15}H_{21}NOS$

(6S)-(-)-2-(5,5-Dimethyl-5,6-dihydro-4*H*-cyclopenta[*b*]thiophen-6-yl)-(4*S*)-4-isopropyl-4,5-dihydro-1,3-oxazole

$[\alpha]_D^{20} -71.6$ (*c* 0.5, $CHCl_3$)

De >99

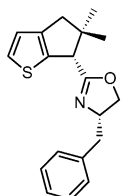
Ee >99

Source of chirality: natural pool

Absolute configuration: (6*S*,4'*S*)

Bianca-Flavia Bonini, Laurent Giordano, Mariafrancesca Fochi,
Mauro Comes-Franchini, Luca Bernardi, Elena Capitò and
Alfredo Ricci*

Tetrahedron: Asymmetry 15 (2004) 1043



$C_{19}H_{21}NOS$

(6*R*)-(-)-(4*S*)-4-Benzyl-2-(5,5-dimethyl-5,6-dihydro-4*H*-cyclopenta[*b*]thiophen-6-yl)-4,5-dihydro-1,3-oxazole

$[\alpha]_D^{20} -0.50$ (*c* 0.5, $CHCl_3$)

De >99

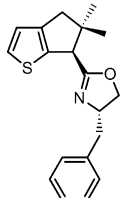
Ee >99

Source of chirality: natural pool

Absolute configuration: (6*R*,4'*S*)

Bianca-Flavia Bonini, Laurent Giordano, Mariafrancesca Fochi,
Mauro Comes-Franchini, Luca Bernardi, Elena Capitò and
Alfredo Ricci*

Tetrahedron: Asymmetry 15 (2004) 1043



$C_{19}H_{21}NOS$

(6*S*)-(-)-(4*S*)-4-Benzyl-2-(5,5-dimethyl-5,6-dihydro-4*H*-cyclopenta[*b*]thiophen-6-yl)-4,5-dihydro-1,3-oxazole

$[\alpha]_D^{20} -41.3$ (*c* 0.5, $CHCl_3$)

De >99

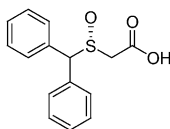
Ee >99

Source of chirality: natural pool

Absolute configuration: (6*S*,4'*S*)

Thomas Prisinzano,* John Podobinski, Kevin Tidgewell, Min Luo and
Dale Swenson

Tetrahedron: Asymmetry 15 (2004) 1053



$C_{15}H_{14}O_3S$

(*S*)-(+)-(Diphenylmethanesulfinyl)acetic acid

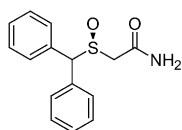
$[\alpha]_D^{22} +40.2$ (*c* = 1.11, MeOH)

Source of chirality: resolution via
diastereomeric salt formation with
(*R*)-(+)- α -methylbenzylamine

Absolute configuration: *S*

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$C_{15}H_{15}NO_2S$

2-(Diphenylmethanesulfinyl)acetamide

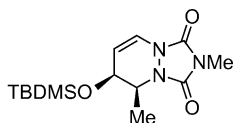
$[\alpha]_D^{22} -76.6$ ($c = 1.0$, $CHCl_3$)

Source of chirality: synthesis from (*R*)-(-)-(diphenylmethanesulfinyl)acetic acid

Absolute configuration: *R*

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$C_{14}H_{25}N_3O_3Si$

(4*S*,5*S*)-5,8-Dimethyl-4-*tert*-butyldimethylsilyloxy-1,6,8-triazobicyclo[4,3,0]non-2-en-7,9-dione

De $\geq 98\%$

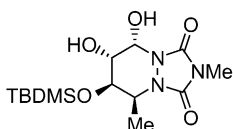
$[\alpha]_D^{20} +182$ (c 0.31, CH_3COCH_3)

Source of chirality: [(*S*)-*R*]-(*1E*,3*E*)-1-*p*-tolylsulfinyl-1,3-pentadiene

Absolute configuration: 4*S*,5*S*

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$C_{14}H_{27}N_3O_5Si$

(2*S*,3*S*,4*R*,5*S*)-2,3-Dihydroxy-5,8-dimethyl-4-*tert*-butyldimethylsilyloxy-1,6,8-triazobicyclo[4,3,0]nonan-7,9-dione

De $\geq 98\%$

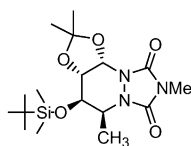
$[\alpha]_D^{20} -3.4$ (c 0.41, $CHCl_3$)

Source of chirality: [(*S*)-*R*]-(*1E*,3*E*)-1-*p*-tolylsulfinyl-1,3-pentadiene

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

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$C_{17}H_{31}N_3O_5Si$

(2*S*,3*S*,4*R*,5*S*)-5,8-Dimethyl-2,3-*O*-isopropyliden-4-*tert*-butyldimethylsilyloxy-1,6,8-triazobicyclo[4,3,0]nonan-7,9-dione

De $\geq 98\%$

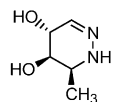
$[\alpha]_D^{20} -83.3$ (c 1.10, $CHCl_3$)

Source of chirality: [(*S*)-*R*]-(*1E*,3*E*)-1-*p*-tolylsulfinyl-1,3-pentadiene

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

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(3*S*,4*R*,5*R*)-4,5-Dihydroxy-3-methyl-2,3,4,5-tetrahydropyridazine

De $\geq 98\%$

$[\alpha]_D^{20} +145$ (*c* 0.2, $CHCl_3$)

Source of chirality: [(*S*)-*R*]-(*1E*,3*E*)-1-*p*-
tolylsulfinyl-1,3-pentadiene

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