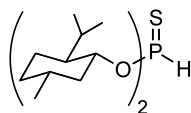


Christopher M. Jessop, Andrew F. Parsons,* Anne Routledge and Derek J. Irvine

Tetrahedron: Asymmetry 14 (2003) 2849



$C_{20}H_{39}O_2PS$

Di-(1*R*,2*S*,5*R*)-menthyl thiophosphite

E.e. >95%

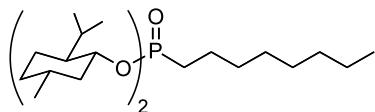
$[\alpha]_D^{20} = -101.6$ (*c* 1, $CHCl_3$)

Source of chirality: (–)-menthol

Absolute configuration: (1*R*,2*S*,5*R*)

Christopher M. Jessop, Andrew F. Parsons,* Anne Routledge and Derek J. Irvine

Tetrahedron: Asymmetry 14 (2003) 2849



$C_{28}H_{55}O_3P$

Di-(1*R*,2*S*,5*R*)-menthyl octylphosphonate

E.e. >95%

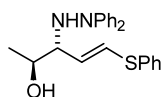
$[\alpha]_D^{20} = -77.8$ (*c* 1, $CHCl_3$)

Source of chirality: (–)-menthol

Absolute configuration: (1*R*,2*S*,5*R*)

Gregory K. Friestad,* Tao Jiang and Gina M. Fioroni

Tetrahedron: Asymmetry 14 (2003) 2853



$C_{23}H_{24}N_2OS$

(2*S*,3*R*)-(E)-3-(*N,N*-Diphenylhydrazino)-5-(phenylthio)-pent-4-en-2-ol

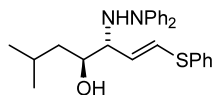
$[\alpha]_D^{28} = -6.3$ (*c* 0.57, $CHCl_3$)

Source of chirality: methyl lactate (*S*), 97% ee

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

Gregory K. Friestad,* Tao Jiang and Gina M. Fioroni

Tetrahedron: Asymmetry 14 (2003) 2853



$C_{26}H_{30}N_2OS$

(3*R*,4*S*)-(E)-3-(*N,N*-Diphenylhydrazino)-6-methyl-1-(phenylthio)-hept-1-en-4-ol

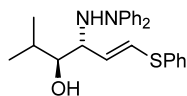
$[\alpha]_D^{28} = -12.0$ (*c* 1.25, $CHCl_3$)

Source of chirality: L-leucic acid (*S*), >95% ee

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

Gregory K. Friestad,* Tao Jiang and Gina M. Fioroni

Tetrahedron: Asymmetry 14 (2003) 2853



$C_{25}H_{28}N_2OS$

(3*S*,4*R*)-(E)-4-(*N,N*-Diphenylhydrazino)-2-methyl-6-(phenylthio)-hex-5-en-3-ol

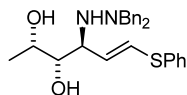
$[\alpha]_D^{28} = -9.7$ (*c* 1.5, $CHCl_3$)

Source of chirality: valine (*S*), 99% ee

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

Gregory K. Friestad,* Tao Jiang and Gina M. Fioroni

Tetrahedron: Asymmetry 14 (2003) 2853



$C_{26}H_{30}N_2O_2S$

(2*S*,3*S*,4*S*)-(E)-4-(*N,N*-Diphenylhydrazino)-6-(phenylthio)-hex-5-en-2,3-diol

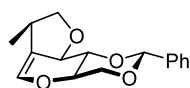
$[\alpha]_D^{29} = -32$ (*c* 2.45, $CHCl_3$)

Source of chirality: Sharpless dihydroxylation (α) of crotonaldehyde *N,N*-dibenzylhydrazone

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

David Crich,* Dae-Hwan Suk and Sanxing Sun

Tetrahedron: Asymmetry 14 (2003) 2861



$C_{16}H_{18}O_4$

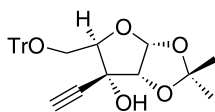
(1*R*,5*aR*,9*aS*,9*bR*)-3-Methyl-8-phenyl-2,3,5*a*,6,9*a*,9*b*-hexahydro-1,5,7,9-tetraoxa-cyclopenta[*a*]naphthalene

$[\alpha]_D^{20} = +0.6$ (*c* 1.1, $CHCl_3$)

Source of chirality: D-glucose

José Marco-Contelles,* Laura Domínguez, Shazia Anjum,
Paloma Ballesteros, Elena Soriano and Denis Postel

Tetrahedron: Asymmetry 14 (2003) 2865



$C_{29}H_{28}O_5$

3-C-Ethynyl-1,2-*O*-isopropylidene-5-*O*-trityl- α -D-allofuranose

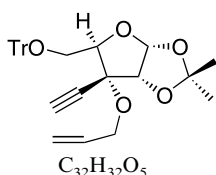
Ee = 100%

$[\alpha]_D = -22$ (*c* 0.49, $CHCl_3$)

Source of chirality: D-xylose

José Marco-Contelles,* Laura Domínguez, Shazia Anjum,
Paloma Ballesteros, Elena Soriano and Denis Postel

Tetrahedron: Asymmetry 14 (2003) 2865



$C_{32}H_{32}O_5$

3-C-Ethynyl-1,2-*O*-isopropylidene-3-*O*-prop-2-enyl-5-*O*-trityl- α -D-allofuranose

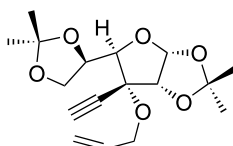
Ee = 100%

$[\alpha]_D = +10$ (*c* 0.60, $CHCl_3$)

Source of chirality: D-xylose

José Marco-Contelles,* Laura Domínguez, Shazia Anjum,
Paloma Ballesteros, Elena Soriano and Denis Postel

Tetrahedron: Asymmetry 14 (2003) 2865



$C_{17}H_{24}O_6$

3-C-Ethynyl-1,2,5,6-di-*O*-isopropylidene-3-*O*-prop-2-enyl- α -D-allofuranose

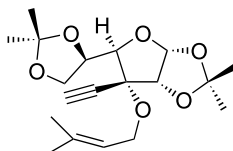
Ee = 100%

$[\alpha]_D = +43$ (*c* 0.42, $CHCl_3$)

Source of chirality: D-glucose

José Marco-Contelles,* Laura Domínguez, Shazia Anjum,
Paloma Ballesteros, Elena Soriano and Denis Postel

Tetrahedron: Asymmetry 14 (2003) 2865



$C_{19}H_{28}O_6$

3-C-Ethynyl-1,2,5,6-di-*O*-isopropylidene-3-*O*-(3'-methyl-but-2-enyl)- α -D-allofuranose

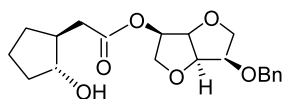
Ee = 100%

$[\alpha]_D = +50$ (*c* 0.70, $CHCl_3$)

Source of chirality: D-glucose

Eric J. Enholm,* Florent Allais and Sebastian Bareyt

Tetrahedron: Asymmetry 14 (2003) 2871



$C_{20}H_{26}O_6$

((2*R*)-Hydroxy-cyclopentyl)-(1*S*)-acetic acid (6*R*)-benzyloxy-(4*R*,5*S*)-hexahydro-fur[3,2-*b*]furan-(3*R*)-yl ester

Ee >99%

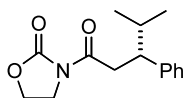
$[\alpha]_D^{25} = +137.6$ (*c* 0.1, MeOH)

Source of chirality: asymmetric synthesis

Absolute configuration: (1*S*,2*R*,3*R*,4*R*,5*S*,6*R*)

Mukund P. Sibi* and Goran Petrovic

Tetrahedron: Asymmetry 14 (2003) 2879



$C_{15}H_{19}NO_3$

3-(4-Methyl-3-phenylpentanoyl)oxazolidin-2-one

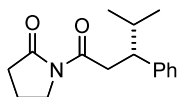
Ee = 98%

$[\alpha]_D^{23} = -5.3$ (c 1.4, CH_2Cl_2)

Source of chirality: 2,2'-cyclopropylidenebis[3a,8a-dihydro-(3aS,3'aS,8aR,8'aR)-8H-indeno[1,2-d]oxazole

Mukund P. Sibi* and Goran Petrovic

Tetrahedron: Asymmetry 14 (2003) 2879



$C_{16}H_{21}NO_2$

1-(4-Methyl-3-phenylpentanoyl)pyrrolidin-2-one

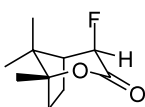
Ee = 98%

$[\alpha]_D^{23} = -30.2$ (c 1.4, CH_2Cl_2)

Source of chirality: 2,2'-cyclopropylidenebis[3a,8a-dihydro-(3aS,3'aS,8aR,8'aR)-8H-indeno[1,2-d]oxazole

Philip Garner,* Özge Şeşenoğlu and Hugh Burgoon

Tetrahedron: Asymmetry 14 (2003) 2883



$C_{10}H_{15}FO_2$

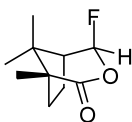
4-Fluoro-1,8,8-trimethyl-2-oxa-bicyclo[3.2.1]octan-3-one

$[\alpha]_D^{20} = -26$ (c 1.4, $CHCl_3$)

Source of chirality: D-camphor

Philip Garner,* Özge Şeşenoğlu and Hugh Burgoon

Tetrahedron: Asymmetry 14 (2003) 2883



$C_{10}H_{15}FO_2$

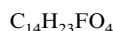
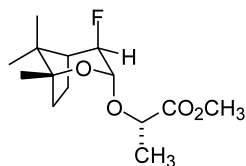
4-Fluoro-1,8,8-trimethyl-3-oxa-bicyclo[3.2.1]octan-2-one

$[\alpha]_D^{20} = +35$ (c 0.6, $CHCl_3$)

Source of chirality: D-camphor

Philip Garner,* Özge Şeşenoğlu and Hugh Burgoon

Tetrahedron: Asymmetry 14 (2003) 2883



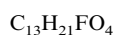
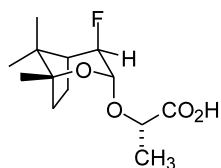
2-(4-Fluoro-1,8,8-trimethyl-2-oxa-bicyclo[3.2.1]oct-3-yloxy)-propionic acid methyl ester

$[\alpha]_D^{20} = -128$ (*c* 2.10, $CHCl_3$)

Source of chirality: D-camphor

Philip Garner,* Özge Şeşenoğlu and Hugh Burgoon

Tetrahedron: Asymmetry 14 (2003) 2883



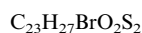
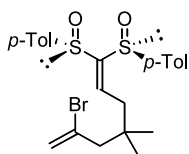
2-(4-Fluoro-1,8,8-trimethyl-2-oxa-bicyclo[3.2.1]oct-3-yloxy)-propionic acid

$[\alpha]_D^{20} = -146$ (*c* 0.42, $CHCl_3$)

Source of chirality: D-camphor

Franck Brebion, Maxime Vitale, Louis Fensterbank* and Max Malacria*

Tetrahedron: Asymmetry 14 (2003) 2889



(S_S,S_S)-1,1-Di-*p*-tolylsulfinyl-4,4-dimethyl-6-bromo-1,6-heptadiene

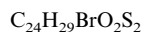
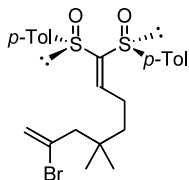
$[\alpha]_D^{20} = -2.6$ (*c* 1.05, $CHCl_3$)

Source of chirality: (–)-menthol

Absolute configuration: (S_S,S_S)

Franck Brebion, Maxime Vitale, Louis Fensterbank* and Max Malacria*

Tetrahedron: Asymmetry 14 (2003) 2889



(S_S,S_S)-1,1-Di-*p*-tolylsulfinyl-5,5-dimethyl-7-bromo-1,7-octadiene

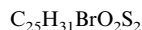
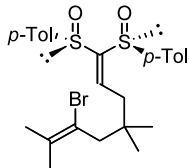
$[\alpha]_D^{20} = -3.7$ (*c* 1.06, $CHCl_3$)

Source of chirality: (–)-menthol

Absolute configuration: (S_S,S_S)

Franck Brebion, Maxime Vitale, Louis Fensterbank* and
Max Malacria*

Tetrahedron: Asymmetry 14 (2003) 2889



(S_S, S_S)-1,1-Di-*p*-tolylsulfinyl-4,4-dimethyl-6-bromo-7-methyl-1,6-octadiene

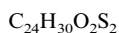
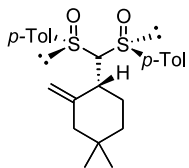
$[\alpha]_D^{20} = -15.0$ (c 0.7, $CHCl_3$)

Source of chirality: (–)-menthol

Absolute configuration: (S_S, S_S)

Franck Brebion, Maxime Vitale, Louis Fensterbank* and
Max Malacria*

Tetrahedron: Asymmetry 14 (2003) 2889



($S_S, S_S, 1R$)-1-(Di-*p*-tolylsulfinylmethyl)-2-methylene-4,4-dimethyl-cyclohexane

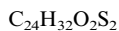
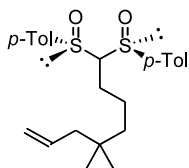
$[\alpha]_D^{20} = -58.5$ (c 1.0, $CHCl_3$)

Source of chirality: (–)-menthol

Absolute configuration: ($S_S, S_S, 1R$)

Franck Brebion, Maxime Vitale, Louis Fensterbank* and
Max Malacria*

Tetrahedron: Asymmetry 14 (2003) 2889



(S_S, S_S)-1,1-Di-*p*-tolylsulfinyl-5,5-dimethyl-oct-7-ene

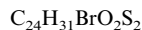
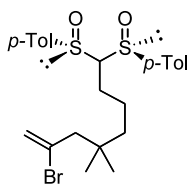
$[\alpha]_D^{20} = +115.0$ (c 1.0, $CHCl_3$)

Source of chirality: (–)-menthol

Absolute configuration: (S_S, S_S)

Franck Brebion, Maxime Vitale, Louis Fensterbank* and
Max Malacria*

Tetrahedron: Asymmetry 14 (2003) 2889



(S_S, S_S)-1,1-Di-*p*-tolylsulfinyl-5,5-dimethyl-7-bromo-oct-7-ene

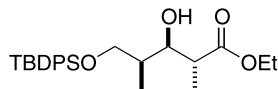
$[\alpha]_D^{20} = +106.0$ (c 1.0, $CHCl_3$)

Source of chirality: (–)-menthol

Absolute configuration: (S_S, S_S)

Syun-ichi Kiyooka

Tetrahedron: Asymmetry 14 (2003) 2897



$C_{25}H_{36}O_4Si$

Ethyl (2*R*,3*R*,4*S*)-5-(*tert*-butyldiphenylsiloxy)-2,4-dimethyl-3-hydroxypentanoate

Ee=91%

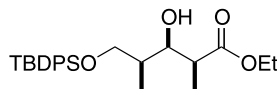
$[\alpha]_D^{26} = -7.1$ (c 3.35, $CHCl_3$)

Source of chirality: asymmetric synthesis

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

Syun-ichi Kiyooka

Tetrahedron: Asymmetry 14 (2003) 2897



$C_{25}H_{36}O_4Si$

Ethyl (2*S*,3*R*,4*S*)-5-(*tert*-butyldiphenylsiloxy)-2,4-dimethyl-3-hydroxypentanoate

Ee=91%

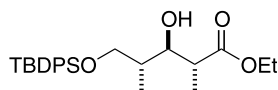
$[\alpha]_D^{25} = +10.1$ (c 0.79, $CHCl_3$)

Source of chirality: asymmetric synthesis

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

Syun-ichi Kiyooka

Tetrahedron: Asymmetry 14 (2003) 2897



$C_{25}H_{36}O_4Si$

Ethyl (2*R*,3*R*,4*R*)-5-(*tert*-butyldiphenylsiloxy)-2,4-dimethyl-3-hydroxypentanoate

Ee=91%

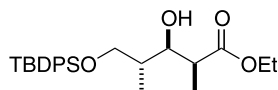
$[\alpha]_D^{25} = -16.7$ (c 2.09, $CHCl_3$)

Source of chirality: asymmetric synthesis

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

Syun-ichi Kiyooka

Tetrahedron: Asymmetry 14 (2003) 2897



$C_{25}H_{36}O_4Si$

Ethyl (2*S*,3*R*,4*R*)-5-(*tert*-butyldiphenylsiloxy)-2,4-dimethyl-3-hydroxypentanoate

Ee=91%

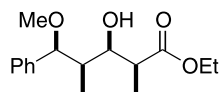
$[\alpha]_D^{25} = -9.8$ (c 1.50, $CHCl_3$)

Source of chirality: asymmetric synthesis

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

Syun-ichi Kiyooka

Tetrahedron: Asymmetry 14 (2003) 2897



Ethyl (2*S*,3*R*,4*R*,5*S*)-3-hydroxy-2,4-dimethyl-5-methoxy-5-phenylpentanoate

Ee = 90%

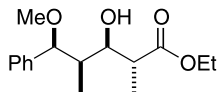
$[\alpha]_D^{25} = -44.6$ (c 0.56, $CHCl_3$)

Source of chirality: asymmetric synthesis

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

Syun-ichi Kiyooka

Tetrahedron: Asymmetry 14 (2003) 2897



Ethyl (2*R*,3*R*,4*R*,5*S*)-3-hydroxy-2,4-dimethyl-5-methoxy-5-phenylpentanoate

Ee = 90%

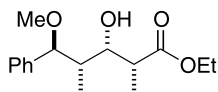
$[\alpha]_D^{25} = -34.6$ (c 0.78, $CHCl_3$)

Source of chirality: asymmetric synthesis

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

Syun-ichi Kiyooka

Tetrahedron: Asymmetry 14 (2003) 2897



Ethyl (2*R*,3*S*,4*S*,5*S*)-3-hydroxy-2,4-dimethyl-5-methoxy-5-phenylpentanoate

Ee = 90%

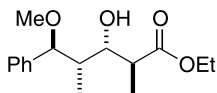
$[\alpha]_D^{25} = -57.1$ (c 0.98, $CHCl_3$)

Source of chirality: asymmetric synthesis

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

Syun-ichi Kiyooka

Tetrahedron: Asymmetry 14 (2003) 2897



Ethyl (2*S*,3*S*,4*S*,5*S*)-3-hydroxy-2,4-dimethyl-5-methoxy-5-phenylpentanoate

Ee = 90%

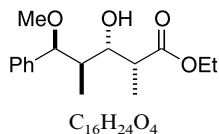
$[\alpha]_D^{25} = -66.9$ (c 1.18, $CHCl_3$)

Source of chirality: asymmetric synthesis

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

Syun-ichi Kiyooka

Tetrahedron: Asymmetry 14 (2003) 2897



Ethyl (2*R*,3*S*,4*R*,5*S*)-3-hydroxy-2,4-dimethyl-5-methoxy-5-phenylpentanoate

Ee = 90%

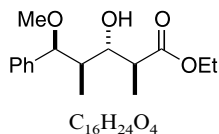
$[\alpha]_D^{28} = -72.4$ (c 0.69, $CHCl_3$)

Source of chirality: asymmetric synthesis

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

Syun-ichi Kiyooka

Tetrahedron: Asymmetry 14 (2003) 2897



Ethyl (2*S*,3*S*,4*R*,5*S*)-3-hydroxy-2,4-dimethyl-5-methoxy-5-phenylpentanoate

Ee = 90%

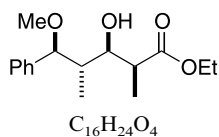
$[\alpha]_D^{28} = -50.0$ (c 1.32, $CHCl_3$)

Source of chirality: asymmetric synthesis

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

Syun-ichi Kiyooka

Tetrahedron: Asymmetry 14 (2003) 2897



Ethyl (2*S*,3*R*,4*S*,5*S*)-3-hydroxy-2,4-dimethyl-5-methoxy-5-phenylpentanoate

Ee = 90%

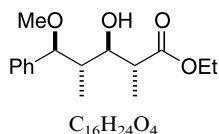
$[\alpha]_D^{28} = -41.6$ (c 1.44, $CHCl_3$)

Source of chirality: asymmetric synthesis

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

Syun-ichi Kiyooka

Tetrahedron: Asymmetry 14 (2003) 2897



Ethyl (2*R*,3*R*,4*S*,5*S*)-3-hydroxy-2,4-dimethyl-5-methoxy-5-phenylpentanoate

Ee = 90%

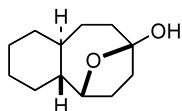
$[\alpha]_D^{28} = -67.0$ (c 1.18, $CHCl_3$)

Source of chirality: asymmetric synthesis

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

Heong-Sub Oh and Jin Kun Cha*

Tetrahedron: Asymmetry 14 (2003) 2911



13-Oxatricyclo[8.2.1.0^{2,7}]tridecan-10-ol

E.e. = 99%

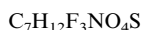
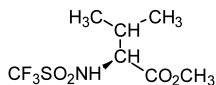
$[\alpha]_{\text{D}} = -8.3$ (c 0.004, CHCl_3)

Source of chirality: (*R,R*)-(+)-hydrobenzoin

Absolute configuration: not determined

Anna K. Croft, Christopher J. Easton,* Katherine Kociuba and Leo Radom

Tetrahedron: Asymmetry 14 (2003) 2919



(*S*)-*N*-Trifluoromethanesulfonylvaline methyl ester

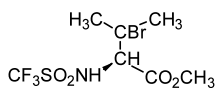
$[\alpha]_{\text{D}}^{25} = -39.4$ (c 0.50, MeOH)

Source of chirality: (*S*)-valine

Absolute configuration: (*S*)

Anna K. Croft, Christopher J. Easton,* Katherine Kociuba and Leo Radom

Tetrahedron: Asymmetry 14 (2003) 2919



(*S*)-*N*-Trifluoromethanesulfonyl-3-bromovaline methyl ester

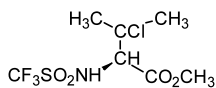
$[\alpha]_{\text{D}}^{25} = -65.6$ (c 0.75, MeOH)

Source of chirality: (*S*)-valine

Absolute configuration: (*S*)

Anna K. Croft, Christopher J. Easton,* Katherine Kociuba and Leo Radom

Tetrahedron: Asymmetry 14 (2003) 2919



(*S*)-*N*-Trifluoromethanesulfonyl-3-chlorovaline methyl ester

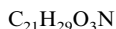
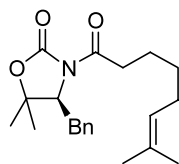
$[\alpha]_{\text{D}}^{25} = -27.8$ (c 0.24, MeOH)

Source of chirality: (*S*)-valine

Absolute configuration: (*S*)

Dan Yang,* Bao-Fu Zheng, Shen Gu, Philip W. H. Chan
and Nian-Yong Zhu

Tetrahedron: Asymmetry 14 (2003) 2927



(S)-(-)-4-Benzyl-5,5-dimethyl-3-(7-methyl-oct-6-enoyl)-oxazolidin-2-one

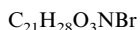
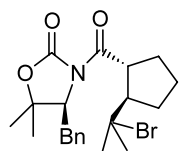
$[\alpha]_D^{20} = -31.7$ (c 1.0, CH_2Cl_2)

Source of chirality: (S)-(-)-4-benzyl-5,5-dimethyl-oxazolidin-2-one

Absolute configuration: S

Dan Yang,* Bao-Fu Zheng, Shen Gu, Philip W. H. Chan
and Nian-Yong Zhu

Tetrahedron: Asymmetry 14 (2003) 2927



(4S)-Benzyl-(3R)-[(2R)-(1-bromo-1-methyl-ethyl)-cyclopentanecarbonyl]-5,5-dimethyl-oxazolidin-2-one

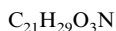
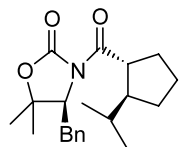
$[\alpha]_D^{20} = +86.8$ (c 1.0, CH_2Cl_2)

Source of chirality: asymmetric atom transfer radical cyclization

Absolute configuration: (2R,4S)-oxa, 2R-cyclopenta

Dan Yang,* Bao-Fu Zheng, Shen Gu, Philip W. H. Chan
and Nian-Yong Zhu

Tetrahedron: Asymmetry 14 (2003) 2927



(4S)-Benzyl-(3R)-[(2S)-isopropyl-cyclopentanecarbonyl]-5,5-dimethyl-oxazolidin-2-one

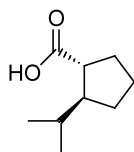
$[\alpha]_D^{20} = +111$ (c 0.8, CH_2Cl_2)

Source of chirality: asymmetric atom transfer radical cyclization

Absolute configuration: (2R,4S)-oxa, 2S-cyclopenta

Dan Yang,* Bao-Fu Zheng, Shen Gu, Philip W. H. Chan
and Nian-Yong Zhu

Tetrahedron: Asymmetry 14 (2003) 2927



(1R,2S)-2-Isopropyl-cyclopentanecarboxylic acid

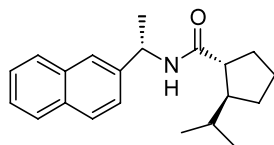
$[\alpha]_D^{20} = +3.3$ (c 0.4, CH_2Cl_2)

Source of chirality: asymmetric atom transfer radical cyclization

Absolute configuration: 1R,2S

Dan Yang,* Bao-Fu Zheng, Shen Gu, Philip W. H. Chan
and Nian-Yong Zhu

Tetrahedron: Asymmetry 14 (2003) 2927



$C_{21}H_{27}ON$

(1*R*,2*S*)-2-Isopropyl-cyclopentanecarboxylic acid [(1'*S*)-naphthalen-2'-yl-ethyl]-amide

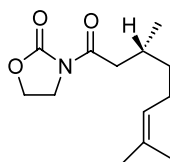
$[\alpha]_D^{20} = -13.2$ (*c* 0.5, CH_2Cl_2)

Source of chirality: asymmetric atom transfer radical cyclization

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

Dan Yang,* Bao-Fu Zheng, Shen Gu, Philip W. H. Chan
and Nian-Yong Zhu

Tetrahedron: Asymmetry 14 (2003) 2927



$C_{13}H_{21}O_3N$

(*R*)-(+)-3-(3,7-Dimethyl-oct-6-en-1-yl)-oxazolidin-2-one

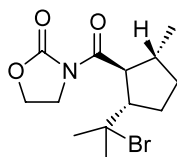
$[\alpha]_D^{20} = +0.75$ (*c* 1.20, CH_2Cl_2)

Source of chirality: (*R*)-(+)-citronellic acid

Absolute configuration: *R*

Dan Yang,* Bao-Fu Zheng, Shen Gu, Philip W. H. Chan
and Nian-Yong Zhu

Tetrahedron: Asymmetry 14 (2003) 2927



$C_{13}H_{20}O_3NBr$

(3*R*)-[(2*S*)-(1-Bromo-1-methyl-ethyl)-(5*R*)-methyl-cyclopentanecarbonyl]-oxazolidin-2-one

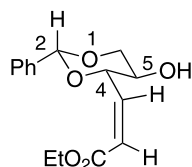
$[\alpha]_D^{20} = +10.2$ (*c* 1.0, CH_2Cl_2)

Source of chirality: asymmetric atom transfer radical cyclization

Absolute configuration: (2*S*,5*R*)-cyclo, (3*R*)-oxa

Jong Uk Rhee, Brian I. Bliss and T. V. RajanBabu*

Tetrahedron: Asymmetry 14 (2003) 2939



$C_{15}H_{18}O_5$

(2*R*,4*S*,5*R*)-(Z)-3-(5-Hydroxy-2-phenyl-[1,3]dioxan-4-yl)-acrylic acid ethyl ester

Ee = 100%

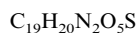
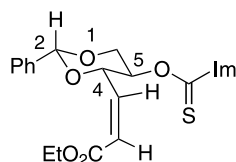
$[\alpha]_D^{20} = -66$ (*c* 0.61, $CHCl_3$)

Source of chirality: carbohydrate precursor

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

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Tetrahedron: Asymmetry 14 (2003) 2939



(2*R*,4*S*,5*R*)-(Z)-3-[5-(Imidazole-1-carbothioxyloxy)-2-phenyl-[1,3]dioxan-4-yl]-acrylic acid ethyl ester

Ee = 100%

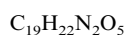
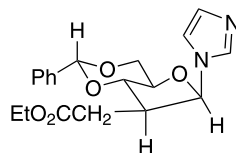
$[\alpha]_D^{20} = -51$ (c 2.06, $CHCl_3$)

Source of chirality: carbohydrate precursor

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

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Tetrahedron: Asymmetry 14 (2003) 2939



(2*R*,6*S*,7*S*,8*R*,9*S*)-(6-Imidazol-1-yl-2-phenyltetrahydrofuro[3,2-*d*][1,3]dioxin-7-yl)-acetic acid ethyl ester

Ee = 100%

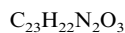
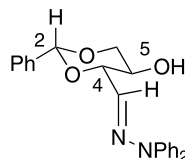
$[\alpha]_D^{20} = -84$ (c 0.77, $CHCl_3$)

Source of chirality: carbohydrate precursor

Absolute configuration: 2*R*,6*S*,7*S*,8*R*,9*S*

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Tetrahedron: Asymmetry 14 (2003) 2939



(2*R*,4*S*,5*R*)-4-(Diphenylhydrazonomethyl)-2-phenyl-[1,3]dioxan-5-ol

Ee = 100%

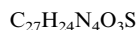
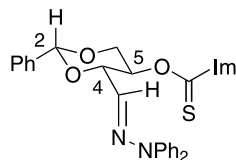
$[\alpha]_D^{20} = +58.8$ (c 0.4, $CHCl_3$)

Source of chirality: carbohydrate precursor

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

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Tetrahedron: Asymmetry 14 (2003) 2939



(2*R*,4*S*,5*R*)-Imidazole-1-carbothioic acid O-[4-(diphenylhydrazonomethyl)-2-phenyl-[1,3]dioxan-5-yl] ester

Ee = 100%

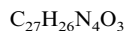
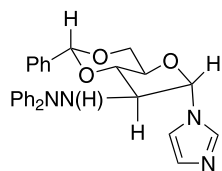
$[\alpha]_D^{20} = +26.0$ (c 0.45, $CHCl_3$)

Source of chirality: carbohydrate precursor

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

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Tetrahedron: Asymmetry 14 (2003) 2939



(2*R*,6*R*,7*S*,8*R*,9*S*)-*N'*-(6-Imidazol-1-yl-2-phenyltetrahydrofuro[3,2-*d*][1,3]dioxin-7-yl)-*N,N*-diphenylhydrazine

Ee = 100%

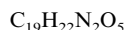
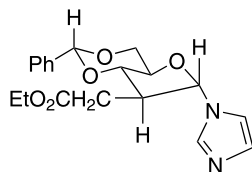
$[\alpha]_D^{20} = -1.9$ (c 0.43 $CHCl_3$)

Source of chirality: carbohydrate precursor

Absolute configuration: 2*R*,6*R*,7*S*,8*R*,9*S*

Jong Uk Rhee, Brian I. Bliss and T. V. RajanBabu*

Tetrahedron: Asymmetry 14 (2003) 2939



(2*R*,6*R*,7*S*,8*R*,9*S*)-(6-Imidazol-1-yl-2-phenyltetrahydrofuro[3,2-*d*][1,3]dioxin-7-yl)-acetic acid ethyl ester

Ee = 100%

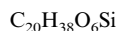
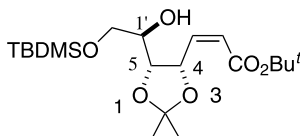
$[\alpha]_D^{20} = +25$ (c 0.62, $CHCl_3$)

Source of chirality: carbohydrate precursor

Absolute configuration: 2*R*,6*R*,7*S*,8*R*,9*S*

Jong Uk Rhee, Brian I. Bliss and T. V. RajanBabu*

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(1'*R*,4*S*,5*R*)-(Z)-3-{5-[2-(*tert*-Butyldimethylsilyloxy)-1'-hydroxyethyl]-2,2-dimethyl[1,3]dioxolan-4-yl}-acrylic acid *tert*-butyl ester

Ee = 100%

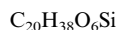
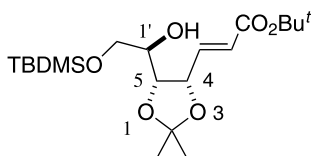
$[\alpha]_D^{20} = +69$ (c 1, $CHCl_3$)

Source of chirality: carbohydrate precursor

Absolute configuration: 1'*R*,4*S*,5*R*

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Tetrahedron: Asymmetry 14 (2003) 2939



(1'*R*,4*S*,5*R*)-(E)-3-{5-[2-(*tert*-Butyldimethylsilyloxy)-1'-hydroxyethyl]-2,2-dimethyl[1,3]dioxolan-4-yl}-acrylic acid *tert*-butyl ester

Ee = 100%

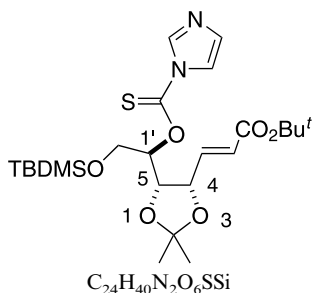
$[\alpha]_D^{20} = -4.6$ (c 1.19, $CHCl_3$)

Source of chirality: carbohydrate precursor

Absolute configuration: 1'*R*,4*S*,5*R*

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Tetrahedron: Asymmetry 14 (2003) 2939



(1'*R*,4*S*,5*R*)-(E)-3-{5-[2-(*tert*-Butyldimethylsilyloxy)-1-hydroxyethyl]-2,2-dimethyl[1,3]dioxolan-4-yl]-acrylic acid *tert*-butyl ester; 1'-O-(1-imidazolyl)thione

Ee = 100%

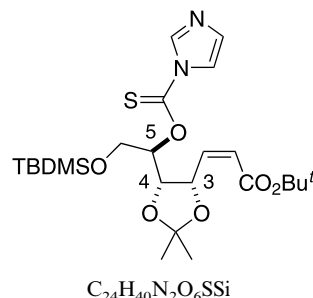
$[\alpha]_D^{20} = +3.5$ (c 1, $CHCl_3$)

Source of chirality: carbohydrate precursor

Absolute configuration: 1'*R*,4*S*,5*R*

Jong Uk Rhee, Brian I. Bliss and T. V. RajanBabu*

Tetrahedron: Asymmetry 14 (2003) 2939



(1'*R*,4*S*,5*R*)-(Z)-3-{5-[2-(*tert*-Butyldimethylsilyloxy)-1-hydroxyethyl]-2,2-dimethyl[1,3]dioxolan-4-yl]-acrylic acid *tert*-butyl ester; 1'-O-(1-imidazolyl)thione

Ee = 100%

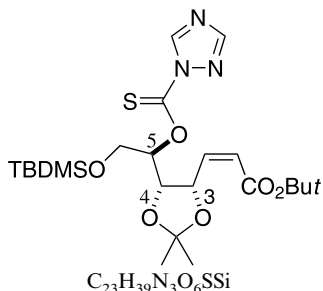
$[\alpha]_D^{20} = +88.5$ (c 3.42, $CHCl_3$)

Source of chirality: carbohydrate precursor

Absolute configuration: 1'*R*,4*S*,5*R*

Jong Uk Rhee, Brian I. Bliss and T. V. RajanBabu*

Tetrahedron: Asymmetry 14 (2003) 2939



(1'*R*,4*S*,5*R*)-(Z)-3-{5-[2-(*tert*-Butyldimethylsilyloxy)-1-hydroxyethyl]-2,2-dimethyl[1,3]dioxolan-4-yl]-acrylic acid *tert*-butyl ester; 1'-O-(1-imidazolyl)thione

Ee = 100%

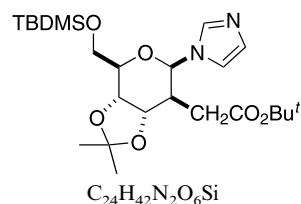
$[\alpha]_D^{20} = +90.6$ (c 0.58, $CHCl_3$)

Source of chirality: carbohydrate precursor

Absolute configuration: 1'*R*,4*S*,5*R*

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Tetrahedron: Asymmetry 14 (2003) 2939



(4*R*,6*R*,7*S*,8*S*,9*S*)-[4-(*tert*-Butyldimethylsilyloxymethyl)-6-imidazol-1-yl-2,2-dimethyltetrahydro[1,3]dioxolo[4,5-*c*]pyran-7-yl]-acetic acid *tert*-butyl ester

Ee = 100%

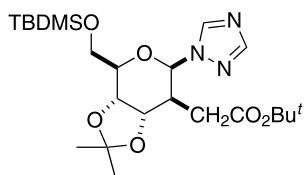
$[\alpha]_D^{20} = +23.5$ (c 3.16, $CHCl_3$)

Source of chirality: carbohydrate precursor

Absolute configuration: 4*R*,6*R*,7*S*,8*S*,9*S*

Jong Uk Rhee, Brian I. Bliss and T. V. RajanBabu*

Tetrahedron: Asymmetry 14 (2003) 2939



$C_{23}H_{41}N_3O_6Si$

(4*R*,6*S*,7*S*,8*S*,9*S*)-[4-(*tert*-Butyldimethylsilanyloxymethyl)-2,2-dimethyl-6-[1,2,4]triazol-1-yltetrahydro[1,3]dioxolo[4,5-*c*]pyran-7-yl]-acetic acid *tert*-butyl ester

Ee = 100%

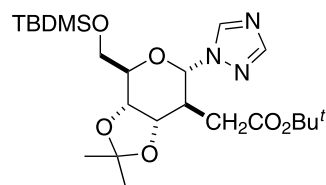
$[\alpha]_D^{20} = -4.3$ (*c* 1.25, $CHCl_3$)

Source of chirality: carbohydrate precursor

Absolute configuration: 4*R*,6*S*,7*S*,8*S*,9*S*

Jong Uk Rhee, Brian I. Bliss and T. V. RajanBabu*

Tetrahedron: Asymmetry 14 (2003) 2939



$C_{23}H_{41}N_3O_6Si$

(4*R*,6*R*,7*S*,8*S*,9*S*)-[4-(*tert*-Butyldimethylsilanyloxymethyl)-2,2-dimethyl-6-[1,2,4]triazol-1-yl-tetrahydro[1,3]dioxolo[4,5-*c*]pyran-7-yl]-acetic acid *tert*-butyl ester

Ee = 100%

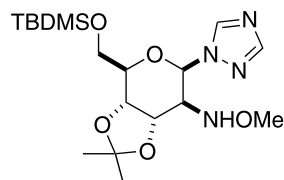
$[\alpha]_D^{20} = +20.7$ (*c* 0.58, $CHCl_3$)

Source of chirality: carbohydrate precursor

Absolute configuration: 4*R*,6*R*,7*S*,8*S*,9*S*

Jong Uk Rhee, Brian I. Bliss and T. V. RajanBabu*

Tetrahedron: Asymmetry 14 (2003) 2939



$C_{18}H_{33}N_4O_5Si$

(4*R*,6*R*,7*S*,8*R*,9*S*)-*N*-[4-(*tert*-Butyldimethylsilanyloxymethyl)-2,2-dimethyl-6-[1,2,4]triazol-1-yltetrahydro[1,3]dioxolo[4,5-*c*]pyran-7-yl]-*O*-methylhydroxylamine

Ee = 100%

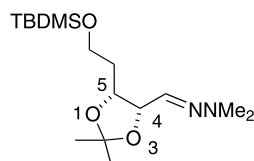
$[\alpha]_D^{20} = -7.4$ (*c* 0.42, $CHCl_3$)

Source of chirality: carbohydrate precursor

Absolute configuration: 4*R*,6*R*,7*S*,8*R*,9*S*

Jong Uk Rhee, Brian I. Bliss and T. V. RajanBabu*

Tetrahedron: Asymmetry 14 (2003) 2939



$C_{16}H_{34}N_2O_3Si$

(4*S*,5*R*)-*N*'-{5-[2-(*tert*-Butyldimethylsilanyloxy)ethyl]-2,2-dimethyl[1,3]dioxolan-4-ylmethylene}-*N,N*-dimethylhydrazine

Ee = 100%

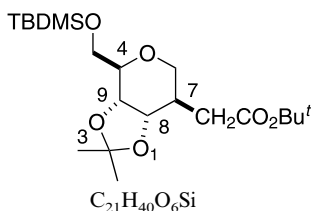
$[\alpha]_D^{20} = +20.5$ (*c* 0.64, $CHCl_3$)

Source of chirality: carbohydrate precursor

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

Jong Uk Rhee, Brian I. Bliss and T. V. RajanBabu*

Tetrahedron: Asymmetry 14 (2003) 2939



(4*R*,7*R*,8*R*,9*R*)-[4-(*tert*-Butyldimethylsilanyloxymethyl)-2,2-dimethyltetrahydro[1,3]dioxolo[4,5-*c*]pyran-7-yl]-acetic acid *tert*-butyl ester

Ee = 100%

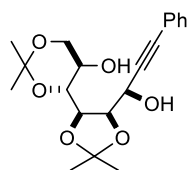
$[\alpha]_D^{20} = -24.4$ (*c* 1.23, $CHCl_3$)

Source of chirality: carbohydrate precursor

Absolute configuration: 4*R*,7*R*,8*R*,9*R*

Ana M. Gómez,* Eduardo Moreno, Gerardo O. Danelón, Serafín Valverde and J. Cristóbal López*

Tetrahedron: Asymmetry 14 (2003) 2961



1-Phenyl-1,2-dideoxy-4,5:6,8-di-*O*-isopropyliden-D-talo-D-glycero-oct-1-yne

Ee = 100%

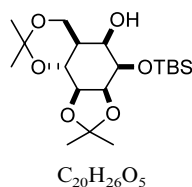
$[\alpha]_D^{21} = -43.4$ (*c* 0.4, $CHCl_3$)

Source of chirality: Chiral pool from D-mannose

Absolute configuration: (3*S*,4*R*,5*R*,6*S*,7*R*)

Ana M. Gómez,* Eduardo Moreno, Gerardo O. Danelón, Serafín Valverde and J. Cristóbal López*

Tetrahedron: Asymmetry 14 (2003) 2961



(3*aS*,4*S*,5*R*,5*aS*,9*aR*,9*bS*)-4-[[Tertbutyl(dimethyl)silyl]oxy]-2,2,8,8-tetramethylhexahydro-3*aH*-[1,3]-dioxolo[4,5-*h*][1,3]benzodioxin-5-ol

Ee = 100%

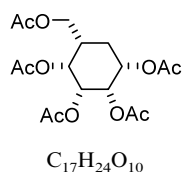
$[\alpha]_D^{21} = -29.9$ (*c* 0.6, $CHCl_3$)

Source of chirality: Chiral pool from D-mannose

Absolute configuration: (3*aS*,4*S*,5*R*,5*aS*,9*aR*,9*bS*)

Ana M. Gómez,* Eduardo Moreno, Gerardo O. Danelón, Serafín Valverde and J. Cristóbal López*

Tetrahedron: Asymmetry 14 (2003) 2961



1,2,3,4,6-Penta-*O*-acetyl-5*a*-carba-β-*L*-talopyranose

Ee = 100%

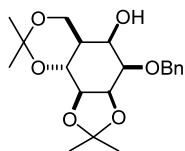
$[\alpha]_D^{21} = +5.2$ (*c* 0.4, $CHCl_3$)

Source of chirality: Chiral pool from D-mannose

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

Ana M. Gómez,* Eduardo Moreno, Gerardo O. Danelón,
Serafín Valverde and J. Cristóbal López*

Tetrahedron: Asymmetry 14 (2003) 2961



(3a*R*,4*R*,5*R*,5a*S*,9a*S*,9b*S*)-4-(Benzyloxy)-2,2,8,8-tetramethylhexahydro-3aH-[1,3]-dioxolo[4,5-h][1,3]benzodioxin-5-ol

Ee = 100%

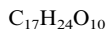
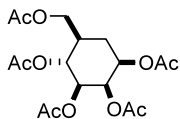
$[\alpha]_D^{21} -42.2$ (c 0.62, $CHCl_3$)

Source of chirality: Chiral pool from D-mannose

Absolute configuration: (3a*R*,4*R*,5*R*,5a*S*,9a*S*,9b*S*)

Ana M. Gómez,* Eduardo Moreno, Gerardo O. Danelón,
Serafín Valverde and J. Cristóbal López*

Tetrahedron: Asymmetry 14 (2003) 2961



1,2,3,4,6-Penta-*O*-acetyl-5a-carba-β-D-mannopyranose

Ee = 100%

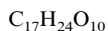
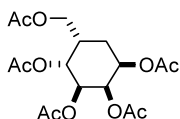
$[\alpha]_D^{21} +2.0$ (c 0.6, $CHCl_3$)

Source of chirality: Chiral pool from D-mannose

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

Ana M. Gómez,* Eduardo Moreno, Gerardo O. Danelón,
Serafín Valverde and J. Cristóbal López*

Tetrahedron: Asymmetry 14 (2003) 2961



1,2,3,4,6-Penta-*O*-acetyl-5a-carba-β-L-gulopyranose

Ee = 100%

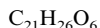
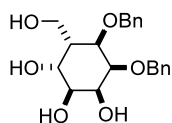
$[\alpha]_D^{21} -34.1$ (c 0.3, $CHCl_3$)

Source of chirality: Chiral pool from D-mannose

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

Ana M. Gómez,* Eduardo Moreno, Gerardo O. Danelón,
Serafín Valverde and J. Cristóbal López*

Tetrahedron: Asymmetry 14 (2003) 2961



(3a*S*,4*S*,5*R*,5a*S*,9a*R*,9b*S*)-4-([Tertbutyl(dimethyl)silyl]oxy)-2,2,8,8-tetramethylhexahydro-3aH-[1,3]-dioxolo[4,5-h][1,3]benzodioxin-5-ol

Ee = 100%

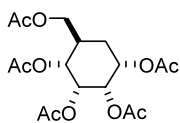
$[\alpha]_D^{21} +69.5$ (c 1.1, $CHCl_3$)

Source of chirality: Chiral pool from D-mannose

Absolute configuration: (3a*S*,4*S*,5*R*,5a*S*,9a*R*,9b*S*)

Ana M. Gómez,* Eduardo Moreno, Gerardo O. Danelón,
Serafín Valverde and J. Cristóbal López*

Tetrahedron: Asymmetry 14 (2003) 2961



$C_{17}H_{24}O_{10}$

1,2,3,4,6-Penta-*O*-acetyl-5a-carba- α -D-gulopyranose

Ee = 100%

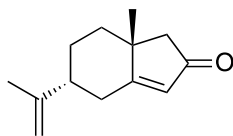
$[\alpha]_D^{21} +36.0$ (c 1.0, $CHCl_3$)

Source of chirality: Chiral pool from D-mannose

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

A. Srikrishna,* R. Viswajanani and J. A. Sattigeri

Tetrahedron: Asymmetry 14 (2003) 2975



$C_{13}H_{18}O$

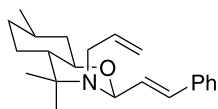
(1*R*,4*R*)-4-Isopropenyl-1-methylbicyclo[4.3.0]non-6-en-8-one

$[\alpha]_D^{26} = +23.5$ (c 2, $CHCl_3$)

Source of chirality: (*R*)-carvone

Rafael Pedrosa,* Celia Andrés,* Juan P. Duque-Soladana,
Alicia Maestro and Javier Nieto

Tetrahedron: Asymmetry 14 (2003) 2985



$C_{22}H_{31}NO$

N-Allyl-2 α -cinnamyl-4,4,7 α -trimethyl-*trans*-octahydro-1,3-benzoxazine

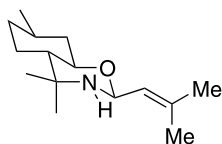
Ee = 100%

$[\alpha]_D^{25} = -46.4$ (c 1.0, CH_2Cl_2)

Absolute configuration: (2*S*)

Rafael Pedrosa,* Celia Andrés,* Juan P. Duque-Soladana,
Alicia Maestro and Javier Nieto

Tetrahedron: Asymmetry 14 (2003) 2985



$C_{15}H_{27}NO$

4,4,7 α -Trimethyl-2 α -prenyl-*trans*-octahydro-1,3-benzoxazine

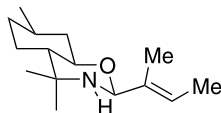
Ee = 100%

$[\alpha]_D^{25} = -4.9$ (c 1.2, CH_2Cl_2)

Absolute configuration: (2*S*)

Rafael Pedrosa,* Celia Andrés,* Juan P. Duque-Soladana,
Alicia Maestro and Javier Nieto

Tetrahedron: Asymmetry 14 (2003) 2985



$C_{15}H_{27}NO$

2α-(2'-Butenyl)-4,4,7α-trimethyl-*trans*-octahydro-1,3-benzoxazine

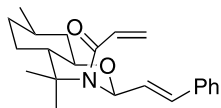
Ee = 100%

$[\alpha]_D^{25} = -46.4$ (c 1.0, CH_2Cl_2)

Absolute configuration: (2*S*)

Rafael Pedrosa,* Celia Andrés,* Juan P. Duque-Soladana,
Alicia Maestro and Javier Nieto

Tetrahedron: Asymmetry 14 (2003) 2985



$C_{22}H_{29}NO_2$

N-Acryloyl-2α-cinnamyl-4,4,7α-trimethyl-*trans*-octahydro-1,3-benzoxazine

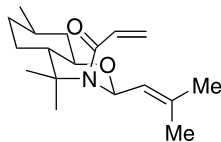
Ee = 100%

$[\alpha]_D^{25} = -32.6$ (c 1.1, CH_2Cl_2)

Absolute configuration: (2*S*)

Rafael Pedrosa,* Celia Andrés,* Juan P. Duque-Soladana,
Alicia Maestro and Javier Nieto

Tetrahedron: Asymmetry 14 (2003) 2985



$C_{18}H_{29}NO_2$

N-Acryloyl-2α-prenyl-4,4,7α-trimethyl-*trans*-octahydro-1,3-benzoxazine

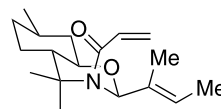
Ee = 100%

$[\alpha]_D^{25} = +37.7$ (c 1.0, CH_2Cl_2)

Absolute configuration (2*S*)

Rafael Pedrosa,* Celia Andrés,* Juan P. Duque-Soladana,
Alicia Maestro and Javier Nieto

Tetrahedron: Asymmetry 14 (2003) 2985



$C_{18}H_{29}NO_2$

N-Acryloyl-2α-(2'-butenyl)-4,4,7α-trimethyl-*trans*-octahydro-1,3-benzoxazine

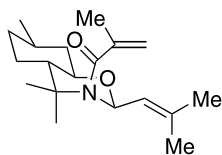
Ee = 100%

$[\alpha]_D^{25} = +36.4$ (c 1.0, CH_2Cl_2)

Absolute configuration: (2*S*)

Rafael Pedrosa,* Celia Andrés,* Juan P. Duque-Soladana,
Alicia Maestro and Javier Nieto

Tetrahedron: Asymmetry 14 (2003) 2985



$C_{19}H_{31}NO_2$

N-Methacryloyl-2 α -prenyl-4,4,7 α -trimethyl-*trans*-octahydro-1,3-benzoxazine

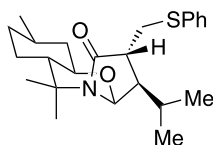
Ee = 100%

$[\alpha]_D^{25} = +53.1$ (c 1.1, CH_2Cl_2)

Absolute configuration: (2*S*)

Rafael Pedrosa,* Celia Andrés,* Juan P. Duque-Soladana,
Alicia Maestro and Javier Nieto

Tetrahedron: Asymmetry 14 (2003) 2985



$C_{24}H_{35}NO_2S$

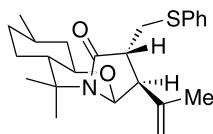
Ee = 100%

$[\alpha]_D^{25} = -41.2$ (c 1.0, CH_2Cl_2)

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

Rafael Pedrosa,* Celia Andrés,* Juan P. Duque-Soladana,
Alicia Maestro and Javier Nieto

Tetrahedron: Asymmetry 14 (2003) 2985



$C_{24}H_{33}NO_2S$

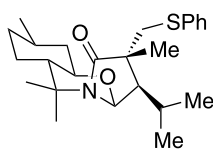
Ee = 100%

$[\alpha]_D^{25} = -45.5$ (c 1.0, CH_2Cl_2)

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

Rafael Pedrosa,* Celia Andrés,* Juan P. Duque-Soladana,
Alicia Maestro and Javier Nieto

Tetrahedron: Asymmetry 14 (2003) 2985



$C_{25}H_{37}NO_2S$

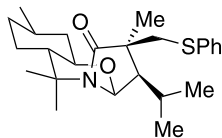
Ee = 100%

$[\alpha]_D^{25} = -17.7$ (c 1.0, CH_2Cl_2)

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

Rafael Pedrosa,* Celia Andrés,* Juan P. Duque-Soladana,
Alicia Maestro and Javier Nieto

Tetrahedron: Asymmetry 14 (2003) 2985



$C_{25}H_{37}NO_2S$

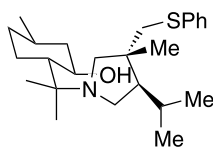
Ee = 100%

$[\alpha]_D^{25} = -51.1$ (c 1.0, CH_2Cl_2)

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

Rafael Pedrosa,* Celia Andrés,* Juan P. Duque-Soladana,
Alicia Maestro and Javier Nieto

Tetrahedron: Asymmetry 14 (2003) 2985



$C_{25}H_{41}NOS$

8-(3'-Methyl-3'-phenylsulfinylmethyl-4'-isopropylpyrrolidinyl) menthol

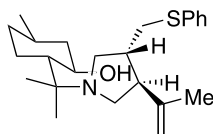
Ee = 100%

$[\alpha]_D^{25} = -16.6$ (c 1.6, CH_2Cl_2)

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

Rafael Pedrosa,* Celia Andrés,* Juan P. Duque-Soladana,
Alicia Maestro and Javier Nieto

Tetrahedron: Asymmetry 14 (2003) 2985



$C_{24}H_{37}NOS$

8-(3'-Phenylsulfinylmethyl-4'-isopropylpyrrolidinyl) menthol

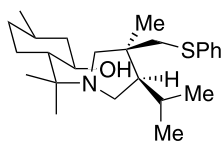
Ee = 100%

$[\alpha]_D^{25} = +19.3$ (c 1.2, CH_2Cl_2)

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

Rafael Pedrosa,* Celia Andrés,* Juan P. Duque-Soladana,
Alicia Maestro and Javier Nieto

Tetrahedron: Asymmetry 14 (2003) 2985



$C_{25}H_{41}NOS$

8-(3'-Methyl-3'-phenylsulfinylmethyl-4'-isopropylpyrrolidinyl) menthol

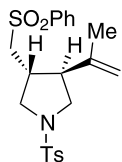
Ee = 100%

$[\alpha]_D^{25} = +10.2$ (c 0.9, CH_2Cl_2)

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

Rafael Pedrosa,* Celia Andrés,* Juan P. Duque-Soladana,
Alicia Maestro and Javier Nieto

Tetrahedron: Asymmetry 14 (2003) 2985



$C_{21}H_{25}NO_4S_2$

3-Methylsulfonyl phenyl-4-isopropyl pyrrolidine

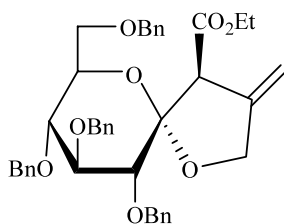
Ee = 100%

$[\alpha]_D^{25} = +21.4$ (c 1.2, CH_2Cl_2)

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

G. V. M. Sharma,* Rakesh, A. Subhash Chander,
V. Goverdhan Reddy, M. H. V. Ramana Rao and A. C. Kunwar

Tetrahedron: Asymmetry 14 (2003) 2991



$C_{41}H_{44}O_8$

Ethyl 8,9,10-tri(benzyloxy)-7-benzyloxymethyl-3-methylene-(4*S*,5*S*,7*R*,8*R*,9*S*,10*R*)-1,6-dioxaspiro[4.5]decane-4-carboxylate

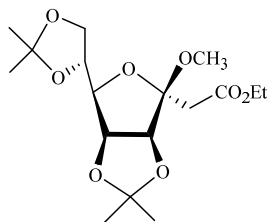
$[\alpha]_D = +37.25$ (c 0.75, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (4*R*,5*S*,7*R*,8*R*,9*S*,10*R*)

G. V. M. Sharma,* Rakesh, A. Subhash Chander,
V. Goverdhan Reddy, M. H. V. Ramana Rao and A. C. Kunwar

Tetrahedron: Asymmetry 14 (2003) 2991



$C_{17}H_{28}O_8$

Ethyl 2-[6-[2,2-dimethyl-(4*R*)-1,3-dioxolan-4-yl]-4-methoxy-2,2-dimethyl-(3*aS*,4*R*,6*R*,6*aS*)-perhydrofuro [3,4-*d*][1,3]dioxol-4-yl]acetate

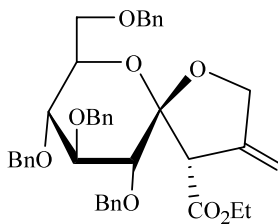
$[\alpha]_D = +46.0$ (c 1.05, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (3*aS*,4*R*,6*R*,6*aS*)

G. V. M. Sharma,* Rakesh, A. Subhash Chander,
V. Goverdhan Reddy, M. H. V. Ramana Rao and A. C. Kunwar

Tetrahedron: Asymmetry 14 (2003) 2991



$C_{41}H_{44}O_8$

Ethyl 8,9,10-tri(benzyloxy)-7-benzyloxymethyl-3-methylene-(4*R*,5*R*,7*R*,8*R*,9*S*,10*R*)-1,6-dioxaspiro[4.5]decane-4-carboxylate

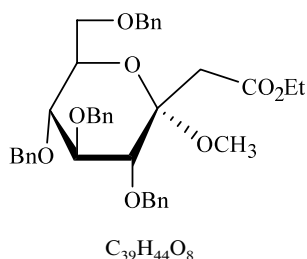
$[\alpha]_D = +21.7$ (c 0.5, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (4*R*,5*R*,7*R*,8*R*,9*S*,10*R*)

G. V. M. Sharma,* Rakesh, A. Subhash Chander,
V. Goverdhan Reddy, M. H. V. Ramana Rao and A. C. Kunwar

Tetrahedron: Asymmetry 14 (2003) 2991

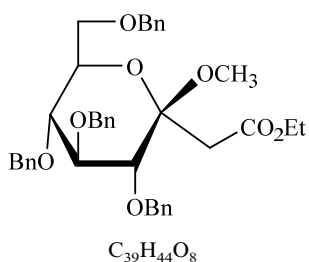


Ethyl 2-[3,4,5-tri(benzyloxy)-6-benzyloxymethyl-2-methoxy-(2*S*,3*R*,4*S*,5*R*,6*R*)-tetrahydro-2*H*-2-pyranyl]acetate

$[\alpha]_D = 35.8$ (*c* 1.0, $CHCl_3$)
Source of chirality: asymmetric synthesis
Absolute configuration: (2*S*,3*R*,4*S*,5*R*,6*R*)

G. V. M. Sharma,* Rakesh, A. Subhash Chander,
V. Goverdhan Reddy, M. H. V. Ramana Rao and A. C. Kunwar

Tetrahedron: Asymmetry 14 (2003) 2991

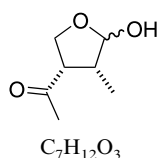


Ethyl 2-[3,4,5-tri(benzyloxy)-6-benzyloxymethyl-2-methoxy-(2*R*,3*R*,4*S*,5*R*,6*R*)-tetrahydro-2*H*-2-pyranyl]acetate

$[\alpha]_D = 28.5$ (*c* 0.25, $CHCl_3$)
Source of chirality: asymmetric synthesis
Absolute configuration: (2*R*,3*R*,4*S*,5*R*,6*R*)

Robert Nouguier,* Stéphane Gastaldi, Didier Stien, Michèle Bertrand,
Félix Villar, Olivier Andrey and Philippe Renaud*

Tetrahedron: Asymmetry 14 (2003) 3005

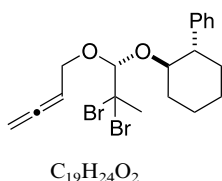


(-)-Botryodiplodin

$[\alpha]_D^{25} = -68.0$ (*c* 0.35, MeOH)

Robert Nouguier,* Stéphane Gastaldi, Didier Stien, Michèle Bertrand,
Félix Villar, Olivier Andrey and Philippe Renaud*

Tetrahedron: Asymmetry 14 (2003) 3005

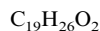
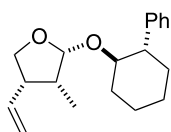


2,3-Butadienyl (1*R*)-2,2-dibromo-1-[(1*R*,2*S*)-2-phenylcyclohexyl]oxyprop-1-yl ether

$[\alpha]_D^{25} = -2.3$ (*c* 1, CH_2Cl_2)

Robert Nougier,* Stéphane Gastaldi, Didier Stien, Michèle Bertrand,
Félix Villar, Olivier Andrey and Philippe Renaud*

Tetrahedron: Asymmetry 14 (2003) 3005

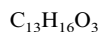
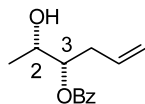


(2*R*,3*R*,4*S*)-3-Methyl-2-[[*(1R,2S)*-2-phenylcyclohexyl]oxy]-4-vinyl tetrahydrofuran

$$[\alpha]_D^{25} = +8.2 \text{ (c 1, CH}_2\text{Cl}_2\text{)}$$

Jens Hartung* and Rainer Kneuer

Tetrahedron: Asymmetry 14 (2003) 3019



(2*S*,3*S*)-3-Benzoyloxy-5-hexen-2-ol

E.e. >96%

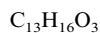
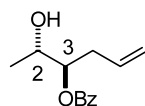
$$[\alpha]_D^{20} = -4.1 \text{ (c 0.63, CHCl}_3\text{)}$$

Source of chirality: methyl (*S*)-lactate

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

Jens Hartung* and Rainer Kneuer

Tetrahedron: Asymmetry 14 (2003) 3019



(2*S*,3*R*)-3-Benzoyloxy-5-hexen-2-ol

E.e. >96%

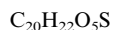
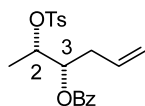
$$[\alpha]_D^{20} = +13.0 \text{ (c 0.64, CHCl}_3\text{)}$$

Source of chirality: methyl (*S*)-lactate

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

Jens Hartung* and Rainer Kneuer

Tetrahedron: Asymmetry 14 (2003) 3019



(2*S*,3*S*)-3-Benzoyloxy-5-hexen-2-yl *p*-toluenesulfonate

E.e. >96%

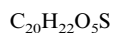
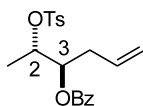
$$[\alpha]_D^{20} = -1.5 \text{ (c 0.63, CHCl}_3\text{)}$$

Source of chirality: methyl (*S*)-lactate

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

Jens Hartung* and Rainer Kneuer

Tetrahedron: Asymmetry 14 (2003) 3019



(2*S*,3*S*)-3-Benzoyloxy-5-hexen-2-yl *p*-toluenesulfonate

E.e. >96%

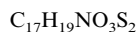
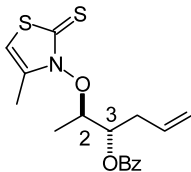
$[\alpha]_D^{20} = -43.9$ (*c* 0.73, $CHCl_3$)

Source of chirality: methyl (*S*)-lactate

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

Jens Hartung* and Rainer Kneuer

Tetrahedron: Asymmetry 14 (2003) 3019



(2*R*,3*S*)-*N*-(3-Benzoyloxy-5-hexen-2-oxy)-4-methylthiazol-2(3*H*)thione

E.e. >96%

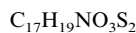
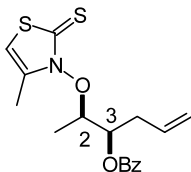
$[\alpha]_D^{20} = -50.2$ (*c* 0.81, $CHCl_3$)

Source of chirality: methyl (*S*)-lactate

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

Jens Hartung* and Rainer Kneuer

Tetrahedron: Asymmetry 14 (2003) 3019



(2*R*,3*R*)-*N*-(3-Benzoyloxy-5-hexen-2-oxy)-4-methylthiazol-2(3*H*)thione

E.e. >96%

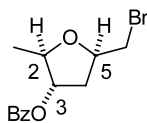
$[\alpha]_D^{20} = -108.4$ (*c* 0.39, $CHCl_3$)

Source of chirality: methyl (*S*)-lactate

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

Jens Hartung* and Rainer Kneuer

Tetrahedron: Asymmetry 14 (2003) 3019



(2*R*,3*S*,5*R*)-3-Benzoyloxy-5-bromomethyl-2-methyltetrahydrofuran

E.e. >96%

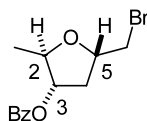
$[\alpha]_D^{20} = +2.2$ (*c* 0.69, $CHCl_3$)

Source of chirality: methyl (*S*)-lactate

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

Jens Hartung* and Rainer Kneuer

Tetrahedron: Asymmetry 14 (2003) 3019



(2*R*,3*S*,5*S*)-3-Benzoyloxy-5-bromomethyl-2-methyltetrahydrofuran

E.e. >96%

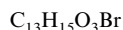
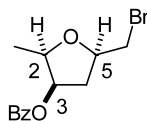
$[\alpha]_D^{20} = -28.7$ (*c* 0.59, $CHCl_3$)

Source of chirality: methyl (*S*)-lactate

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

Jens Hartung* and Rainer Kneuer

Tetrahedron: Asymmetry 14 (2003) 3019



(2*R*,3*R*,5*R*)-3-Benzoyloxy-5-bromomethyl-2-methyltetrahydrofuran

E.e. >96%

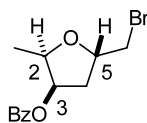
$[\alpha]_D^{20} = +16.2$ (*c* 0.53, $CHCl_3$)

Source of chirality: methyl (*S*)-lactate

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

Jens Hartung* and Rainer Kneuer

Tetrahedron: Asymmetry 14 (2003) 3019



(2*R*,3*R*,5*S*)-3-Benzoyloxy-5-bromomethyl-2-methyltetrahydrofuran

E.e. >96%

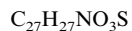
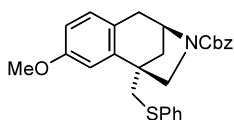
$[\alpha]_D^{20} = -45.1$ (*c* 0.20, $CHCl_3$)

Source of chirality: methyl (*S*)-lactate

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

Osamu Tamura, Takehiko Yanagimachi and Hiroyuki Ishibashi*

Tetrahedron: Asymmetry 14 (2003) 3033



(1*S*,4*R*)-3-Benzoyloxycarbonyl-8-methoxy-1-phenylthiomethyl-2,3,4,5-tetrahydro-1,4-methano-3-benzazepine

E.e. = 100%

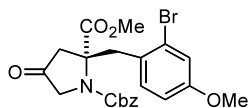
$[\alpha]_D^{25} = -95.6$ (*c* 0.76, $CHCl_3$)

Source of chirality: *trans*-4-hydroxy-L-proline

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

Osamu Tamura, Takehiko Yanagimachi and Hiroyuki Ishibashi*

Tetrahedron: Asymmetry 14 (2003) 3033



$C_{22}H_{22}BrNO_6$

(*R*)-1-Benzoyloxycarbonyl-2-(2-bromo-4-methoxyphenyl)methyl-2-methoxycarbonyl-4-oxopyrrolidine

E.e. = 100%

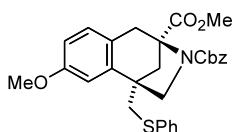
$[\alpha]_D^{23} = -85.2$ (*c* 1.12, $CHCl_3$)

Source of chirality: *trans*-4-hydroxy-L-proline

Absolute configuration: *R*

Osamu Tamura, Takehiko Yanagimachi and Hiroyuki Ishibashi*

Tetrahedron: Asymmetry 14 (2003) 3033



$C_{29}H_{29}NO_5S$

(1*S*,4*R*)-3-Benzoyloxycarbonyl-8-methoxy-4-methoxycarbonyl-1-phenylthiomethyl-2,3,4,5-tetrahydro-1,4-methano-3-benzazepine

E.e. = 100%

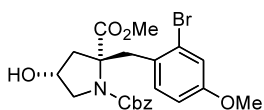
$[\alpha]_D^{25} = -77.6$ (*c* 0.60, $CHCl_3$)

Source of chirality: *trans*-4-hydroxy-L-proline

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

Osamu Tamura, Takehiko Yanagimachi and Hiroyuki Ishibashi*

Tetrahedron: Asymmetry 14 (2003) 3033



$C_{22}H_{24}BrNO_6$

(2*R*,4*R*)-1-Benzoyloxycarbonyl-2-(2-bromo-4-methoxyphenyl)methyl-4-hydroxy-2-(methoxycarbonyl)pyrrolidine

E.e. = 100%

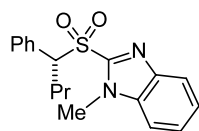
$[\alpha]_D^{23} = -154.6$ (*c* 0.50, $CHCl_3$)

Source of chirality: *trans*-4-hydroxy-L-proline

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

Hideki Sugimoto, Shuichi Nakamura, Yoshihiko Watanabe and Takeshi Toru*

Tetrahedron: Asymmetry 14 (2003) 3043



$C_{18}H_{20}N_2O_2S$

(*R*)-1-Methyl-2-[(1-phenylbutyl)sulfonyl]benzimidazole

E.e. = 91%

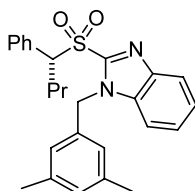
$[\alpha]_D^{20} = +82.5$ (*c* 0.220, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (*R*)

Hideki Sugimoto, Shuichi Nakamura, Yoshihiko Watanabe and Takeshi Toru*

Tetrahedron: Asymmetry 14 (2003) 3043



$C_{26}H_{28}N_2O_2S$

(*R*)-1-(3,5-Dimethylphenyl)methyl-2-[(1-phenylbutyl)sulfonyl]benzimidazole

Ee = 68%

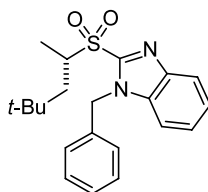
$[\alpha]_D^{20} = +52.7$ (c 0.228, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (*R*)

Hideki Sugimoto, Shuichi Nakamura, Yoshihiko Watanabe and Takeshi Toru*

Tetrahedron: Asymmetry 14 (2003) 3043



$C_{21}H_{26}N_2O_2S$

(*S*)-1-(Phenylmethyl)-2-[(1,3,3-trimethylbutyl)sulfonyl]benzimidazole

Ee = 56%

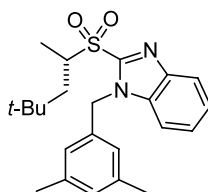
$[\alpha]_D^{20} = -5.32$ (c 0.224, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (*S*)

Hideki Sugimoto, Shuichi Nakamura, Yoshihiko Watanabe and Takeshi Toru*

Tetrahedron: Asymmetry 14 (2003) 3043



$C_{23}H_{30}N_2O_2S$

(*S*)-1-[(3,5-Dimethylphenyl)methyl]-2-[(1,3,3-trimethylbutyl)sulfonyl]benzimidazole

Ee = 82%

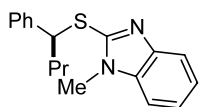
$[\alpha]_D^{20} = -8.29$ (c 0.338, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (*S*)

Hideki Sugimoto, Shuichi Nakamura, Yoshihiko Watanabe and Takeshi Toru*

Tetrahedron: Asymmetry 14 (2003) 3043



$C_{18}H_{20}N_2S$

(*S*)-1-Methyl-2-[(1-phenylbutyl)thio]benzimidazole

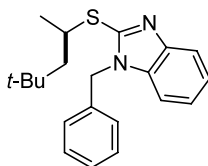
Ee = 64%

$[\alpha]_D^{20} = -197$ (c 1.04, $CHCl_3$)

Absolute configuration: (*S*)

Hideki Sugimoto, Shuichi Nakamura, Yoshihiko Watanabe and Takeshi Toru*

Tetrahedron: Asymmetry 14 (2003) 3043



$C_{21}H_{26}N_2S$

(*R*)-1-(Phenylmethyl)-2-[(1,3,3-trimethylbutyl)thio]benzimidazole

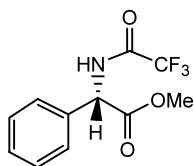
Ee = 95%

$[\alpha]_D^{20} = -35.3$ (c 0.928, $CHCl_3$)

Absolute configuration: (*R*)

Dainis Dakternieks, V. Tamara Perchyonok and Carl H. Schiesser*

Tetrahedron: Asymmetry 14 (2003) 3057



$C_{11}H_{10}F_3NO_3$

Methyl (*R*)-*N*-trifluoroacetylphenylglycinate

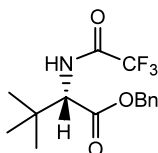
Ee > 99%

$[\alpha]_D^{12} = -21.6$ (c 0.15, $CHCl_3$)

Source of chirality: asymmetric synthesis

Dainis Dakternieks, V. Tamara Perchyonok and Carl H. Schiesser*

Tetrahedron: Asymmetry 14 (2003) 3057



$C_{14}H_{18}F_3NO_3$

Benzyl (*S*)-*N*-trifluoroacetyl-*tert*-leucinate

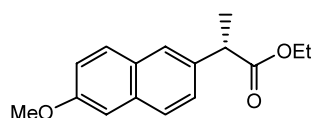
Ee = 99%

$[\alpha]_D^{15} = +9.1$ (c 0.15, $CHCl_3$)

Source of chirality: asymmetric synthesis

Dainis Dakternieks, V. Tamara Perchyonok and Carl H. Schiesser*

Tetrahedron: Asymmetry 14 (2003) 3057



$C_{16}H_{18}O_3$

(*S*)-Naproxen ethyl ester

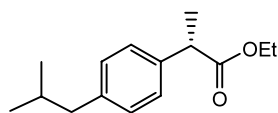
Ee = 99%

$[\alpha]_D^{16} = +32.6$ (c 0.12, $CHCl_3$)

Source of chirality: asymmetric synthesis

Dainis Dakternieks, V. Tamara Perchyonok and Carl H. Schiesser*

Tetrahedron: Asymmetry 14 (2003) 3057



$C_{15}H_{22}O_2$

(*S*)-Ibuprofen ethyl ester

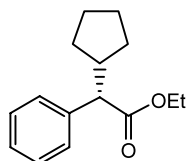
Ee = 99%

$[\alpha]_D^{10} = +38.0$ (*c* 0.8, $CHCl_3$)

Source of chirality: asymmetric synthesis

Dainis Dakternieks, V. Tamara Perchyonok and Carl H. Schiesser*

Tetrahedron: Asymmetry 14 (2003) 3057



$C_{14}H_{20}O_2$

Ethyl (*S*)-2-cyclopentyl-2-phenylacetate

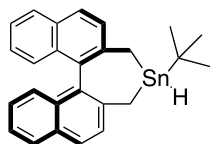
Ee = 96%

$[\alpha]_D^{26} = +26.4$ (*c* 1.0, $CHCl_3$)

Source of chirality: asymmetric synthesis

Michael Blumenstein, Matthias Lemmler, Ahlke Hayen
and Jürgen O. Metzger*

Tetrahedron: Asymmetry 14 (2003) 3069



$C_{26}H_{26}Sn$

(*R*)-4-*tert*-Butyl-4,5-dihydro-3*H*-dinaphtho[2,1-*c*:1',2'-*e*]stannepin

E.e. = 100%

$[\alpha]_D^{24} = -40$ (*c* 0.1, C_6H_6)

Source of chirality: (*R*)-2,2'-dimethyl-1,1'-binaphthyl

Absolute configuration: (*R*)