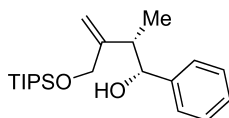


Stereochemistry abstracts

Yoshimi Hirokawa, Maria Kitamura, Naoyoshi Maezaki*

Tetrahedron: Asymmetry 19 (2008) 1167



$C_{21}H_{36}O_2Si$

(1R,2S)-2-Methyl-1-phenyl-3-[(triisopropylsilyloxy)methyl]-3-buten-1-ol

Ee = 98%

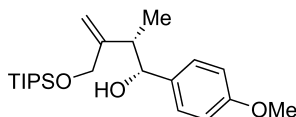
$[\alpha]_D^{23} = -12.2$ (c 1.24, $CHCl_3$)

Source of chirality: chemical reaction

Absolute configuration: (1R,2S)

Yoshimi Hirokawa, Maria Kitamura, Naoyoshi Maezaki*

Tetrahedron: Asymmetry 19 (2008) 1167



$C_{22}H_{38}O_3Si$

(1R,2S)-1-(4-Methoxyphenyl)-2-methyl-3-[(triisopropylsilyloxy)methyl]-3-buten-1-ol

Ee = 98%

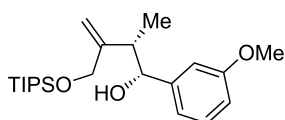
$[\alpha]_D^{25} = -11.5$ (c 0.92, $CHCl_3$)

Source of chirality: chemical reaction

Absolute configuration: (1R,2S)

Yoshimi Hirokawa, Maria Kitamura, Naoyoshi Maezaki*

Tetrahedron: Asymmetry 19 (2008) 1167



$C_{22}H_{38}O_3Si$

(1R,2S)-1-(3-Methoxyphenyl)-2-methyl-3-[(triisopropylsilyloxy)methyl]-3-buten-1-ol

Ee = 95%

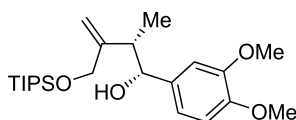
$[\alpha]_D^{22} = -12.2$ (c 0.73, $CHCl_3$)

Source of chirality: chemical reaction

Absolute configuration: (1R,2S)

Yoshimi Hirokawa, Maria Kitamura, Naoyoshi Maezaki*

Tetrahedron: Asymmetry 19 (2008) 1167



$C_{23}H_{40}O_4Si$

(1R,2S)-1-(3,4-Dimethoxyphenyl)-2-methyl-3-[(triisopropylsilyloxy)methyl]-3-buten-1-ol

Ee = 87%

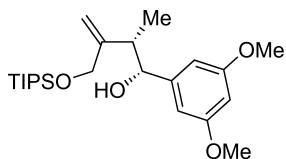
$[\alpha]_D^{24} = -12.2$ (c 0.85, $CHCl_3$)

Source of chirality: chemical reaction

Absolute configuration: (1R,2S)

Yoshimi Hirokawa, Maria Kitamura, Naoyoshi Maezaki*

Tetrahedron: Asymmetry 19 (2008) 1167



$C_{23}H_{40}O_4Si$

(1R,2S)-1-(3,5-Dimethoxyphenyl)-2-methyl-3-[(triisopropylsilyloxy)methyl]-3-buten-1-ol

Ee = 99%

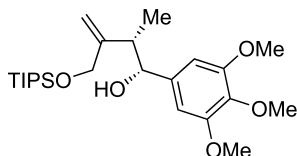
$[\alpha]_D^{25} = -10.3$ (c 1.74, $CHCl_3$)

Source of chirality: chemical reaction

Absolute configuration: (1R,2S)

Yoshimi Hirokawa, Maria Kitamura, Naoyoshi Maezaki*

Tetrahedron: Asymmetry 19 (2008) 1167



$C_{24}H_{42}O_5Si$

(1R,2S)-2-Methyl-3-[(triisopropylsilyloxy)methyl]-1-(3,4,5-trimethoxyphenyl)-3-buten-1-ol

Ee = 85%

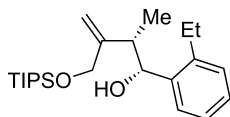
$[\alpha]_D^{25} = -12.7$ (c 0.72, $CHCl_3$)

Source of chirality: chemical reaction

Absolute configuration: (1R,2S)

Yoshimi Hirokawa, Maria Kitamura, Naoyoshi Maezaki*

Tetrahedron: Asymmetry 19 (2008) 1167



$C_{23}H_{40}O_2Si$

(1R,2S)-1-(2-Ethylphenyl)-2-methyl-3-[(triisopropylsilyloxy)methyl]-3-buten-1-ol

Ee = >99%

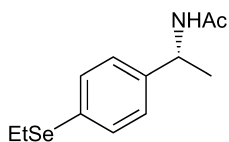
$[\alpha]_D^{20} = +2.6$ (c 1.40, $CHCl_3$)

Source of chirality: chemical reaction

Absolute configuration: (1R,2S)

Leandro H. Andrade*, Alexandre V. Silva

Tetrahedron: Asymmetry 19 (2008) 1175



$C_{12}H_{17}NOSe$

(+)-(R)-N-(1-(4-(Ethylselanyl)phenyl)ethyl)acetamide

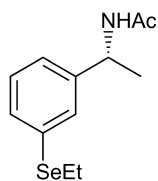
Ee = 99%

$[\alpha]_D^{24} = +102.8$ (c 0.59, ethyl acetate)

Absolute configuration: (R)

Leandro H. Andrade*, Alexandre V. Silva

Tetrahedron: Asymmetry 19 (2008) 1175



$C_{12}H_{17}NOSe$

(+)-(R)-N-(1-(3-(Ethylselanyl)phenyl)ethyl)acetamide

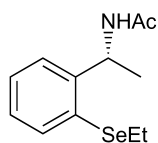
Ee = 98%

$[\alpha]_D^{24} = +88.7$ (c 0.21, ethyl acetate)

Absolute configuration: (R)

Leandro H. Andrade*, Alexandre V. Silva

Tetrahedron: Asymmetry 19 (2008) 1175



$C_{12}H_{17}NOSe$

(+)-(R)-N-(1-(2-(Ethylselanyl)phenyl)ethyl)acetamide

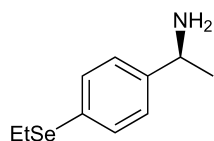
Ee = 99%

$[\alpha]_D^{24} = +21.8$ (c 0.5, ethyl acetate)

Absolute configuration: (R)

Leandro H. Andrade*, Alexandre V. Silva

Tetrahedron: Asymmetry 19 (2008) 1175



$C_{10}H_{15}NSe$

(-)-(S)-1-(4-(Ethylselanyl)phenyl)ethanamine

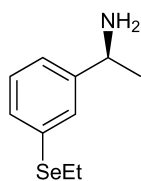
Ee = 22%

$[\alpha]_D^{26} = -5.0$ (c 0.5, ethyl acetate)

Absolute configuration: (S)

Leandro H. Andrade*, Alexandre V. Silva

Tetrahedron: Asymmetry 19 (2008) 1175



$C_{10}H_{15}NSe$

(-)-(S)-1-(3-(Ethylselanyl)phenyl)ethanamine

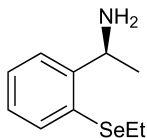
Ee = 34%

$[\alpha]_D^{26} = -5.8$ (c 2.24, ethyl acetate)

Absolute configuration: (S)

Leandro H. Andrade*, Alexandre V. Silva

Tetrahedron: Asymmetry 19 (2008) 1175



$C_{10}H_{15}NSe$

(-)-(S)-1-(2-(Ethylselanyl)phenyl)ethanamine

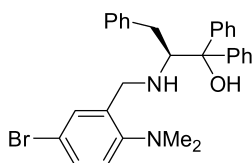
Ee = 08%

$[\alpha]_D^{26} = -2.5$ (c 3.49, ethyl acetate)

Absolute configuration: (S)

Wenge Wang, Xiumin Shen, Fengnian Ma, Zijong Li, Cong Zhang*

Tetrahedron: Asymmetry 19 (2008) 1193



$C_{30}H_{31}N_2OBr$

(S)-2-(5-Bromo-2-dimethylamino-benzylamino)-1,1,3-triphenyl-propan-1-ol

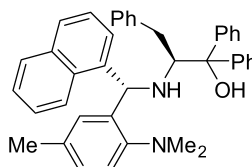
$[\alpha]_D^{20} = -41.6$ (c 0.44, $CHCl_3$)

Source of chirality: L-phenylalanine

Absolute configuration: (S)

Wenge Wang, Xiumin Shen, Fengnian Ma, Zijong Li, Cong Zhang*

Tetrahedron: Asymmetry 19 (2008) 1193



$C_{41}H_{40}N_2O$

(S,S)-2-([(2-Dimethylamino-5-methylphenyl)-naphthalen-1-ylmethyl]amino)-1,1,3-triphenyl-propan-1-ol

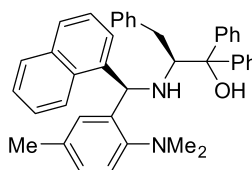
$[\alpha]_D^{20} = +42.8$ (c 0.50, $CHCl_3$)

Source of chirality: L-phenylalanine

Absolute configuration: (S,S)

Wenge Wang, Xiumin Shen, Fengnian Ma, Zijong Li, Cong Zhang*

Tetrahedron: Asymmetry 19 (2008) 1193



$C_{41}H_{40}N_2O$

(S,R)-2-([(2-Dimethylamino-5-methylphenyl)-naphthalen-1-ylmethyl]amino)-1,1,3-triphenyl-propan-1-ol

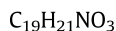
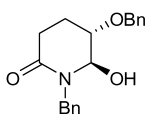
$[\alpha]_D^{20} = -34.9$ (c 0.47, $CHCl_3$)

Source of chirality: L-phenylalanine

Absolute configuration: (S,R)

Liang-Xian Liu,* Qi-Long Peng, Pei-Qiang Huang*

Tetrahedron: Asymmetry 19 (2008) 1200



(5S,6R)-1-Benzyl-5-benzyloxy-6-hydroxy-2-piperidinone

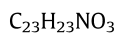
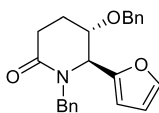
$$[\alpha]_D^{25} = -29.8 \text{ (c 1.0, CHCl}_3\text{)}$$

Source of chirality: (S)-glutamic acid

Absolute configuration: (5S,6R)

Liang-Xian Liu,* Qi-Long Peng, Pei-Qiang Huang*

Tetrahedron: Asymmetry 19 (2008) 1200



(5S,6S)-1-Benzyl-5-benzyloxy-6-(2-furyl)-2-piperidinone

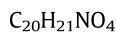
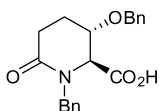
$$[\alpha]_D^{25} = -54.9 \text{ (c 0.8, CHCl}_3\text{)}$$

Source of chirality: (S)-glutamic acid

Absolute configuration: (5S,6S)

Liang-Xian Liu,* Qi-Long Peng, Pei-Qiang Huang*

Tetrahedron: Asymmetry 19 (2008) 1200



(5S,6S)-1-Benzyl-5-benzyloxy-2-piperidinone-6-carboxylic acid

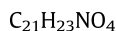
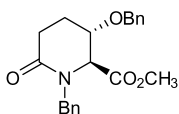
$$[\alpha]_D^{25} = -109.9 \text{ (c 1.0, CHCl}_3\text{)}$$

Source of chirality: (S)-glutamic acid

Absolute configuration: (5S,6S)

Liang-Xian Liu,* Qi-Long Peng, Pei-Qiang Huang*

Tetrahedron: Asymmetry 19 (2008) 1200



(5S,6S)-1-Benzyl-5-benzyloxy-2-piperidinone-6-carboxylic acid methyl ester

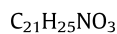
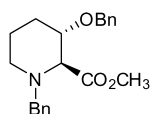
$$[\alpha]_D^{20} = -52.9 \text{ (c 2.1, CHCl}_3\text{)}$$

Source of chirality: (S)-glutamic acid

Absolute configuration: (5S,6S)

Liang-Xian Liu,* Qi-Long Peng, Pei-Qiang Huang*

Tetrahedron: Asymmetry 19 (2008) 1200



(2*S*,3*S*)-1-Benzyl-3-benzyloxypiperidine-2-carboxylic acid methyl ester

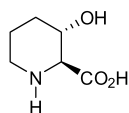
$$[\alpha]_D^{25} = -19.0 \text{ (c 1.5, CHCl}_3\text{)}$$

Source of chirality: (*S*)-glutamic acid

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

Liang-Xian Liu,* Qi-Long Peng, Pei-Qiang Huang*

Tetrahedron: Asymmetry 19 (2008) 1200



(2*S*,3*S*)-3-Hydroxypiperidine-2-carboxylic acid

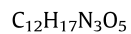
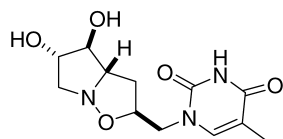
$$[\alpha]_D^{25} = +13.3 \text{ (c 0.7, 10\% aq HCl)}$$

Source of chirality: (*S*)-glutamic acid

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

Vanni Mannucci, Franca M. Cordero, Anna Piperno, Giovanni Romeo, Alberto Brandi*

Tetrahedron: Asymmetry 19 (2008) 1204



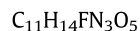
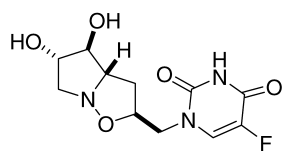
1-[[[(2*S*,3*aS*,4*S*,5*S*)-4,5-Dihydroxyhexahydropyrrolo[1,2-*b*]isoxazol-2-yl]methyl]-5-methylpyrimidine-2,4(1*H*,3*H*)-dione

$$[\alpha]_D^{25} = +70 \text{ (c 0.5, DMSO)}$$

Source of chirality: L-tartaric acid

Vanni Mannucci, Franca M. Cordero, Anna Piperno, Giovanni Romeo, Alberto Brandi*

Tetrahedron: Asymmetry 19 (2008) 1204



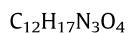
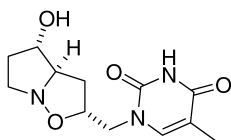
1-[[[(2*S*,3*aS*,4*S*,5*S*)-4,5-Dihydroxyhexahydropyrrolo[1,2-*b*]isoxazol-2-yl]methyl]-5-fluoropyrimidine-2,4(1*H*,3*H*)-dione

$$[\alpha]_D^{25} = +42 \text{ (c 0.71, DMSO)}$$

Source of chirality: L-tartaric acid

Vanni Mannucci, Franca M. Cordero, Anna Piperno, Giovanni Romeo, Alberto Brandi*

Tetrahedron: Asymmetry 19 (2008) 1204

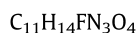
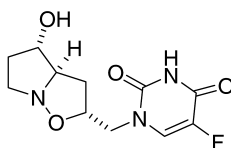


1-[(2R,3aR,4S)-4-Hydroxyhexahydropyrrolo[1,2-b]isoxazol-2-yl]methyl}-5-methylpyrimidine-2,4(1H,3H)-dione

$[\alpha]_D^{25} = -122$ (c 0.635, CH₃OH)
Source of chirality: L-malic acid

Vanni Mannucci, Franca M. Cordero, Anna Piperno, Giovanni Romeo, Alberto Brandi*

Tetrahedron: Asymmetry 19 (2008) 1204

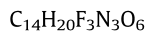
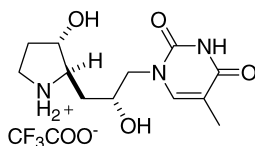


1-[(2R,3aR,4S)-4-Hydroxyhexahydropyrrolo[1,2-b]isoxazol-2-yl]methyl}-5-fluoropyrimidine-2,4(1H,3H)-dione

$[\alpha]_D^{25} = -93$ (c 1.36, CH₃OH)
Source of chirality: L-malic acid

Vanni Mannucci, Franca M. Cordero, Anna Piperno, Giovanni Romeo, Alberto Brandi*

Tetrahedron: Asymmetry 19 (2008) 1204

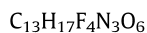
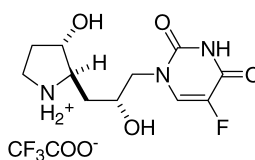


(2R,3S)-3-Hydroxy-2-[(2R)-2-hydroxy-3-(5-methyl-2,4-dioxo-3,4-dihydropyrimidin-1(2H)-yl)propyl]pyrrolidinium trifluoroacetate

$[\alpha]_D^{25} = -12$ (c 0.565, CH₃OH)
Source of chirality: L-malic acid

Vanni Mannucci, Franca M. Cordero, Anna Piperno, Giovanni Romeo, Alberto Brandi*

Tetrahedron: Asymmetry 19 (2008) 1204

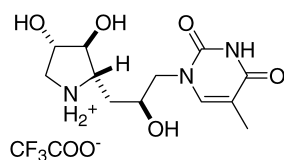


(2R,3S)-3-Hydroxy-2-[(2R)-2-hydroxy-3-(5-fluoro-2,4-dioxo-3,4-dihydropyrimidin-1(2H)-yl)propyl]pyrrolidinium trifluoroacetate

$[\alpha]_D^{25} = +11$ (c 2.595, CH₃OH)
Source of chirality: L-malic acid

Vanni Mannucci, Franca M. Cordero, Anna Piperno, Giovanni Romeo, Alberto Brandi*

Tetrahedron: Asymmetry 19 (2008) 1204



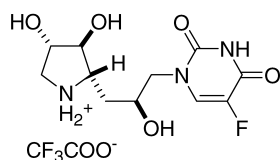
$[\alpha]_D^{25} = -4$ (c 0.435, DMSO)
Source of chirality: L-tartaric acid

$C_{14}H_{20}F_3N_3O_7$

(2S,3S,4S)-3,4-Dihydroxy-2-[(2S)-2-hydroxy-3-(5-methyl-2,4-dioxo-3,4-dihydropyrimidin-1(2H)-yl)propyl]pyrrolidinium trifluoroacetate

Vanni Mannucci, Franca M. Cordero, Anna Piperno, Giovanni Romeo, Alberto Brandi*

Tetrahedron: Asymmetry 19 (2008) 1204



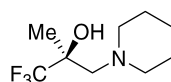
$[\alpha]_D^{25} = +4$ (c 0.595, CH₃OH)
Source of chirality: L-tartaric acid

$C_{13}H_{17}F_4N_3O_7$

(2S,3S,4S)-3,4-Dihydroxy-2-[(2S)-2-hydroxy-3-(5-fluoro-2,4-dioxo-3,4-dihydropyrimidin-1(2H)-yl)propyl]pyrrolidinium trifluoroacetate

Akinori Harada, Yasuyuki Fujiwara, Toshimasa Katagiri*

Tetrahedron: Asymmetry 19 (2008) 1210



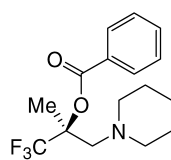
$[\alpha]_D^{25} = +9.9$ (c 0.0142, CHCl₃)
Source of chirality: enantiomerically pure epoxide
Absolute configuration: (2S)

$C_9H_{16}F_3NO$

(2S)-1,1,1-Trifluoro-2-methyl-3-(N-piperidino)-2-propanol

Akinori Harada, Yasuyuki Fujiwara, Toshimasa Katagiri*

Tetrahedron: Asymmetry 19 (2008) 1210



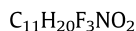
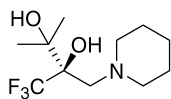
$[\alpha]_D^{25} = +0.4$ (c 0.0115, CHCl₃)
Source of chirality: stereospecific synthesis
Absolute configuration: (2S)

$C_{16}H_{20}F_3NO_2$

(2S)-2-Benzoyl-1,1,1-trifluoro-2-methyl-3-(N-piperidino)propane

Akinori Harada, Yasuyuki Fujiwara, Toshimasa Katagiri*

Tetrahedron: Asymmetry 19 (2008) 1210



(2S)-1,1,1-Trifluoro-3-methyl-2-(N-piperidinomethyl)-2,3-butanediol

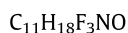
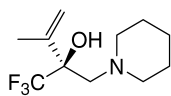
$$[\alpha]_D^{25} = -3.3 \text{ (c 0.0103, CHCl}_3\text{)}$$

Source of chirality: enantiomerically pure epoxide

Absolute configuration: (2S)

Akinori Harada, Yasuyuki Fujiwara, Toshimasa Katagiri*

Tetrahedron: Asymmetry 19 (2008) 1210



(2S)-1,1,1-Trifluoro-3-methyl-2-(N-piperidinomethyl)-3-buten-2-ol

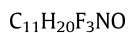
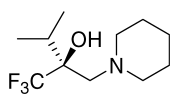
$$[\alpha]_D^{25} = -0.6 \text{ (c 0.0138, CHCl}_3\text{)}$$

Source of chirality: stereospecific synthesis

Absolute configuration: (2S)

Akinori Harada, Yasuyuki Fujiwara, Toshimasa Katagiri*

Tetrahedron: Asymmetry 19 (2008) 1210



(2S)-1,1,1-Trifluoro-3-methyl-2-(N-piperidinomethyl)-2-butanol

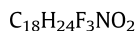
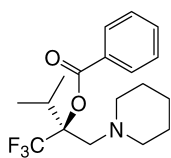
$$[\alpha]_D^{25} = +2.8 \text{ (c 0.0112, CHCl}_3\text{)}$$

Source of chirality: stereospecific synthesis

Absolute configuration: (2S)

Akinori Harada, Yasuyuki Fujiwara, Toshimasa Katagiri*

Tetrahedron: Asymmetry 19 (2008) 1210



(2S)-2-Benzoyl-1,1,1-trifluoro-3-methyl-2-(N-piperidinomethyl)butane

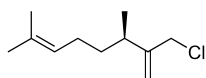
$$[\alpha]_D^{25} = +5.3 \text{ (c 0.0119, CHCl}_3\text{)}$$

Source of chirality: stereospecific synthesis

Absolute configuration: (2S)

Takuya Tashiro, Kenji Mori*

Tetrahedron: Asymmetry 19 (2008) 1215



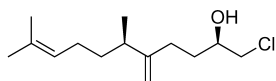
$C_{11}H_{19}Cl$

(*R*)-3,7-Dimethyl-2-methylene-6-octenyl chloride

$[\alpha]_D^{20} = -18.7$ (c 1.56, $CHCl_3$)
Source of chirality: (*R*)-citronellal (97% ee)
Absolute configuration: (*R*)

Takuya Tashiro, Kenji Mori*

Tetrahedron: Asymmetry 19 (2008) 1215



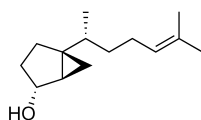
$C_{14}H_{25}ClO$

(2*R*,6*R*)-1-Chloro-6,10-dimethyl-5-methylene-9-undecen-2-ol

$[\alpha]_D^{20} = -9.7$ (c 1.21, $CHCl_3$)
Source of chirality: (*R*)-citronellal (97% ee) and (*R*)-epichlorohydrin (98% ee)
Absolute configuration: (2*R*,6*R*)

Takuya Tashiro, Kenji Mori*

Tetrahedron: Asymmetry 19 (2008) 1215



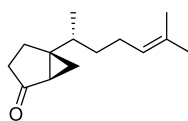
$C_{14}H_{24}O$

(6*R*,1'*S*,4'*R*,5'*R*)-2-Methyl-6-(4'-hydroxybicyclo[3.1.0]hexyl)hept-2-ene

$[\alpha]_D^{21} = +11.7$ (c 1.04, $CHCl_3$)
Source of chirality: (*R*)-citronellal (97% ee) and (*R*)-epichlorohydrin (98% ee)
Absolute configuration: (6*R*,1'*S*,4'*R*,5'*R*)

Takuya Tashiro, Kenji Mori*

Tetrahedron: Asymmetry 19 (2008) 1215



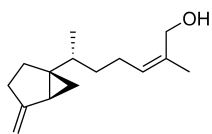
$C_{14}H_{22}O$

(6*R*,1'*S*,5'*R*)-2-Methyl-6-(4'-oxobicyclo[3.1.0]hexyl)hept-2-ene

$[\alpha]_D^{21} = +23.5$ (c 1.12, $CHCl_3$)
Source of chirality: (*R*)-citronellal (97% ee) and (*R*)-epichlorohydrin (98% ee)
Absolute configuration: (6*R*,1'*S*,5'*R*)

Takuya Tashiro, Kenji Mori*

Tetrahedron: Asymmetry 19 (2008) 1215



$C_{15}H_{24}O$

(2Z,6R,1'S,5'S)-2-Methyl-6-(4'-Methylenebicyclo[3.1.0]hexyl)hept-2-en-1-ol

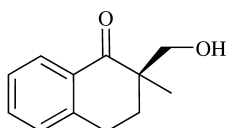
$[\alpha]_D^{22} = -52.7$ (c 1.14, hexane)

Source of chirality: (R)-citronellal (97% ee) and (R)-epichlorohydrin (98% ee)

Absolute configuration: (2Z,6R,1'S,5'R)

Tridib Mahapatra, Nandan Jana, S. Nanda*

Tetrahedron: Asymmetry 19 (2008) 1224



$C_{12}H_{14}O_2$

(R)-2-Hydroxymethyl-2-methyl-3,4-dihydro-2H-naphthalen-1-one

Ee = 99%

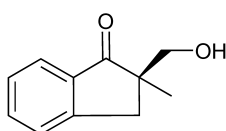
$[\alpha]_D^{28} = +1.8$ (c 1.0, MeOH)

Source of chirality: enzymatic transesterification

Absolute configuration: (2R)

Tridib Mahapatra, Nandan Jana, S. Nanda*

Tetrahedron: Asymmetry 19 (2008) 1224



$C_{11}H_{12}O_2$

(R)-2-Hydroxymethyl-2-methyl-indan-1-one

Ee = 99%

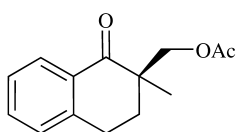
$[\alpha]_D^{28} = +4.1$ (c 0.5, MeOH)

Source of chirality: enzymatic transesterification

Absolute configuration: (2R)

Tridib Mahapatra, Nandan Jana, S. Nanda*

Tetrahedron: Asymmetry 19 (2008) 1224



$C_{14}H_{16}O_3$

Acetic acid (R)-2-methyl-1-oxo-1,2,3,4-tetrahydro-naphthalen-2-ylmethyl ester

Ee = 99%

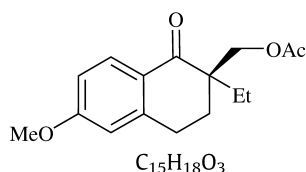
$[\alpha]_D^{28} = -11.1$ (c 1.0, MeOH)

Source of chirality: enzymatic transesterification

Absolute configuration: (2R)

Tridib Mahapatra, Nandan Jana, S. Nanda*

Tetrahedron: Asymmetry 19 (2008) 1224



Acetic acid (R)-6-methoxy-2-ethyl-1-oxo-1,2,3,4-tetrahydro-naphthalen-2-ylmethyl ester

Ee = 98%

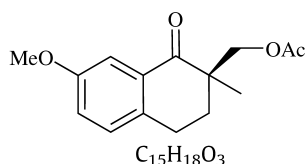
$[\alpha]_D^{28} = -18.5$ (c 0.7, MeOH)

Source of chirality: enzymatic transesterification

Absolute configuration: (2R)

Tridib Mahapatra, Nandan Jana, S. Nanda*

Tetrahedron: Asymmetry 19 (2008) 1224



Acetic acid (R)-7-methoxy-2-methyl-1-oxo-1,2,3,4-tetrahydro-naphthalen-2-ylmethyl ester

Ee = 98%

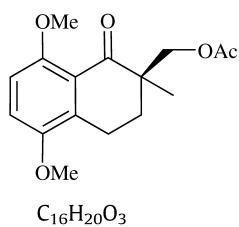
$[\alpha]_D^{28} = -7.6$ (c 0.9, MeOH)

Source of chirality: enzymatic transesterification

Absolute configuration: (2R)

Tridib Mahapatra, Nandan Jana, S. Nanda*

Tetrahedron: Asymmetry 19 (2008) 1224



Acetic acid (R)-5,8-dimethoxy-2-methyl-1-oxo-1,2,3,4-tetrahydro-naphthalen-2-ylmethyl ester

Ee = 97%

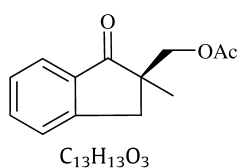
$[\alpha]_D^{28} = -2.3$ (c 0.4, MeOH)

Source of chirality: enzymatic transesterification

Absolute configuration: (2R)

Tridib Mahapatra, Nandan Jana, S. Nanda*

Tetrahedron: Asymmetry 19 (2008) 1224



Acetic acid (R)-2-methyl-1-oxo-indan-2-ylmethyl ester

Ee = 99%

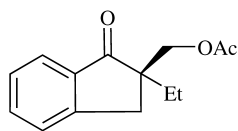
$[\alpha]_D^{28} = -5.6$ (c 1.1, MeOH)

Source of chirality: enzymatic transesterification

Absolute configuration: (2R)

Tridib Mahapatra, Nandan Jana, S. Nanda*

Tetrahedron: Asymmetry 19 (2008) 1224



C₁₄H₁₆O₃

Acetic acid (*R*)-2-methyl-1-oxo-indan-2-ylmethyl ester

Ee = 99%

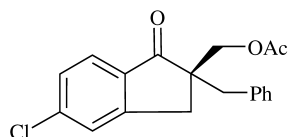
$[\alpha]_D^{28} = -18.8$ (c 0.6, MeOH)

Source of chirality: enzymatic transesterification

Absolute configuration: (2*R*)

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Tetrahedron: Asymmetry 19 (2008) 1224



C₁₉H₁₇O₃Cl

Acetic acid (*R*)-2-benzyl-5-chloro-1-oxo-indan-2-ylmethyl ester

Ee = 94%

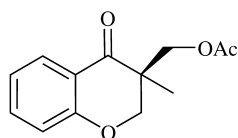
$[\alpha]_D^{28} = -12.6$ (c 0.5, MeOH)

Source of chirality: enzymatic transesterification

Absolute configuration: (2*R*)

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Tetrahedron: Asymmetry 19 (2008) 1224



C₁₃H₁₄O₄

Acetic acid (*R*)-3-methyl-4-oxo-chroman-3-ylmethyl ester

Ee = 98%

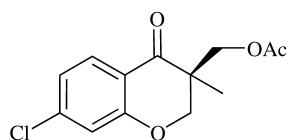
$[\alpha]_D^{28} = -2.0$ (c 0.5, MeOH)

Source of chirality: enzymatic transesterification

Absolute configuration: (3*R*)

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Tetrahedron: Asymmetry 19 (2008) 1224



C₁₃H₁₃O₄Cl

Acetic acid (*R*)-7-chloro-3-methyl-4-oxo-chroman-3-ylmethyl ester

Ee = 95%

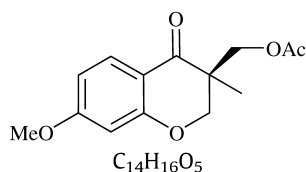
$[\alpha]_D^{28} = -17.5$ (c 1.0, MeOH)

Source of chirality: enzymatic transesterification

Absolute configuration: (3*R*)

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Tetrahedron: Asymmetry 19 (2008) 1224



Acetic acid (R)-7-methoxy-3-methyl-4-oxo-chroman-3-ylmethyl ester

Ee = 98%

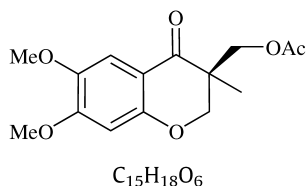
$[\alpha]_D^{28} = -7.1$ (c 0.5, MeOH)

Source of chirality: enzymatic transesterification

Absolute configuration: (3R)

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Tetrahedron: Asymmetry 19 (2008) 1224



Acetic acid (R)-6,7-dimethoxy-3-methyl-4-oxo-chroman-3-ylmethyl ester

Ee = 98%

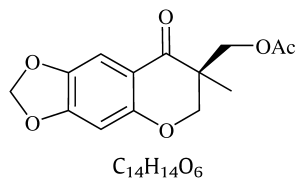
$[\alpha]_D^{28} = -4.3$ (c 0.6, MeOH)

Source of chirality: enzymatic transesterification

Absolute configuration: (3R)

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Tetrahedron: Asymmetry 19 (2008) 1224



Acetic acid (R)-7-methyl-8-oxo-7,8-dihydro-6H-[1,3]dioxolo[4,5-g]chromen-7-ylmethyl ester

Ee = 96%

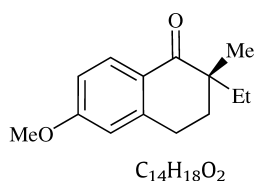
$[\alpha]_D^{28} = -7.3$ (c 0.8, MeOH)

Source of chirality: enzymatic transesterification

Absolute configuration: (3R)

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(R)-2-Ethyl-6-methoxy-2-methyl-3,4-dihydro-2H-naphthalen-1-one

Ee = 98%

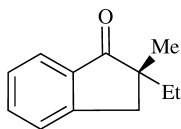
$[\alpha]_D^{28} = -21.1$ (c 1.2, MeOH)

Source of chirality: enzymatic transesterification

Absolute configuration: (2R)

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Tetrahedron: Asymmetry 19 (2008) 1224



C₁₂H₁₄O

(*R*)-2-Ethyl-2-methyl-indan-1-one

Ee = 99%

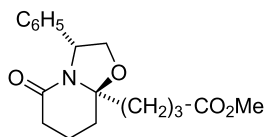
[α]_D²⁸ = −10.4 (c 1.0, MeOH)

Source of chirality: enzymatic transesterification

Absolute configuration: (2*R*)

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Tetrahedron: Asymmetry 19 (2008) 1233



C₁₈H₂₃NO₄

Methyl (3*R*,8*aR*)-5-oxo-3-phenyl-2,3,5,6,7,8-hexahydrooxazolo[3,2-*a*]piperidine-8*a*-butyrate

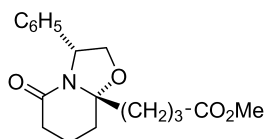
[α]_D²² = −94.2 (c 1.0, MeOH)

Source of chirality: (*R*)-phenylglycinol

Absolute configuration: (3*R*,8*aR*)

Mercedes Amat,* Rosa Grier, Robert Fabregat, Joan Bosch

Tetrahedron: Asymmetry 19 (2008) 1233



C₁₈H₂₃NO₄

Methyl (3*R*,8*aS*)-5-oxo-3-phenyl-2,3,5,6,7,8-hexahydrooxazolo[3,2-*a*]piperidine-8*a*-butyrate

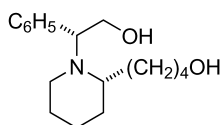
[α]_D²² = −50.6 (c 1.2, MeOH)

Source of chirality: (*R*)-phenylglycinol

Absolute configuration: (3*R*,8*aS*)

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Tetrahedron: Asymmetry 19 (2008) 1233



C₁₇H₂₇NO₂

(*S*)-1-[(*R*)-1-Phenyl-2-hydroxyethyl]piperidine-2-butanol

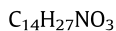
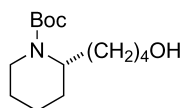
[α]_D²² = −84.7 (c 0.9, MeOH)

Source of chirality: (*R*)-phenylglycinol

Absolute configuration: (2*S*)

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(S)-1-(*tert*-Butoxycarbonyl)piperidine-2-butanol

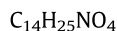
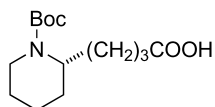
$$[\alpha]_D^{22} = -32.6 \text{ (c 1.0, MeOH)}$$

Source of chirality: (*R*)-phenylglycinol

Absolute configuration: (2*S*)

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Tetrahedron: Asymmetry 19 (2008) 1233



(S)-1-(*tert*-Butoxycarbonyl)piperidine-2-butanoic acid

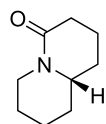
$$[\alpha]_D^{22} = -40.8 \text{ (c 1.0, MeOH)}$$

Source of chirality: (*R*)-phenylglycinol

Absolute configuration: (2*S*)

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Tetrahedron: Asymmetry 19 (2008) 1233



(S)-1,2,3,6,7,8,9,9a-Octahydroquinolizin-4-one

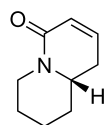
$$[\alpha]_D^{22} = -3.7 \text{ (c 1.0, CHCl}_3\text{)}$$

Source of chirality: (*R*)-phenylglycinol

Absolute configuration: (9a*S*)

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Tetrahedron: Asymmetry 19 (2008) 1233



(S)-1,6,7,8,9,9a-Hexahydroquinolizin-4-one

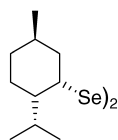
$$[\alpha]_D^{22} = +45.1 \text{ (c 1.0, CHCl}_3\text{)}$$

Source of chirality: (*R*)-phenylglycinol

Absolute configuration: (9a*S*)

Zbigniew Rafiński, Jacek Ścianowski*

Tetrahedron: Asymmetry 19 (2008) 1237



$C_{20}H_{38}Se_2$

(+)-Dineomenthyl diselenide

Ee = 99%

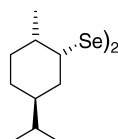
$[\alpha]_D^{20} = +302.2$ (c 5.58, $CHCl_3$)

Source of chirality: (–)-menthol

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

Zbigniew Rafiński, Jacek Ścianowski*

Tetrahedron: Asymmetry 19 (2008) 1237



$C_{20}H_{38}Se_2$

(–)-Dineocarovomenthyl diselenide

Ee ≥ 98%

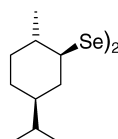
$[\alpha]_D^{20} = -195.5$ (c 3.36, $CHCl_3$)

Source of chirality: (+)-carvone

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

Zbigniew Rafiński, Jacek Ścianowski*

Tetrahedron: Asymmetry 19 (2008) 1237



$C_{20}H_{38}Se_2$

(+)-Dicarovomenthyl diselenide

Ee ≥ 98%

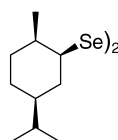
$[\alpha]_D^{20} = +256.7$ (c 0.60, $CHCl_3$)

Source of chirality: (+)-carvone

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

Zbigniew Rafiński, Jacek Ścianowski*

Tetrahedron: Asymmetry 19 (2008) 1237



$C_{20}H_{38}Se_2$

(+)-Dineoisocarovomenthyl diselenide

Ee ≥ 98%

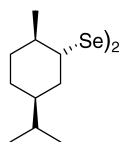
$[\alpha]_D^{25} = +80.4$ (c 0.95, $CHCl_3$)

Source of chirality: (+)-carvone

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

Zbigniew Rafiński, Jacek Ścianowski*

Tetrahedron: Asymmetry 19 (2008) 1237



$C_{20}H_{38}Se_2$

(-)-Diisocarvomenthyl diselenide

Ee $\geq$ 98%

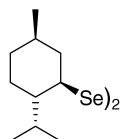
$[\alpha]_D^{20} = -66.6$ (c 10.64, $CHCl_3$)

Source of chirality: (+)-carvone

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

Zbigniew Rafiński, Jacek Ścianowski*

Tetrahedron: Asymmetry 19 (2008) 1237



$C_{20}H_{38}Se_2$

(-)-Dimenthyl diselenide

Ee = 99%

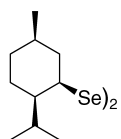
$[\alpha]_D^{20} = -306.3$ (c 5.10, $CHCl_3$)

Source of chirality: (-)-menthol

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

Zbigniew Rafiński, Jacek Ścianowski*

Tetrahedron: Asymmetry 19 (2008) 1237



$C_{20}H_{38}Se_2$

(-)-Dineoisomenthyl diselenide

Ee > 98%

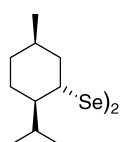
$[\alpha]_D^{25} = -232.5$ (c 6.70, $CHCl_3$)

Source of chirality: (+)-isomenthol

Absolute configuration: (1R,2R,5R,1'R,2'R,5'R)

Zbigniew Rafiński, Jacek Ścianowski*

Tetrahedron: Asymmetry 19 (2008) 1237



$C_{20}H_{38}Se_2$

(+)-Diisomenthyl diselenide

Ee > 98%

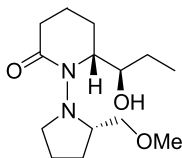
$[\alpha]_D^{22} = +27.6$ (c 0.90, $CHCl_3$)

Source of chirality: (+)-isomenthol

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

Stéphane Lebrun, Axel Couture,* Eric Deniau, Pierre Grandclaudon

Tetrahedron: Asymmetry 19 (2008) 1245



$C_{14}H_{26}N_2O_3$

(6R,1R,2S)-(+)-6-(1-Hydroxypropyl)-1-(2-methoxymethylpyrrolidin-1-yl)piperidin-2-one

De >95%

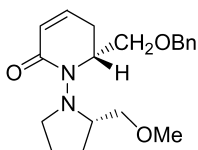
$[\alpha]_D^{20} = +24.1$ (c 0.54, $CHCl_3$)

Source of chirality: (S)-proline

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

Stéphane Lebrun, Axel Couture,* Eric Deniau, Pierre Grandclaudon

Tetrahedron: Asymmetry 19 (2008) 1245



$C_{19}H_{26}N_2O_3$

(6R,2S)-(-)-6-Benzyloxymethyl-1-(2-methoxymethylpyrrolidin-1-yl)-5,6-dihydro-1H-pyridin-2-one

De >95%

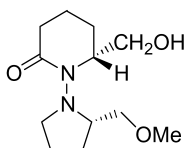
$[\alpha]_D^{20} = -7.0$ (c 0.30, $CHCl_3$)

Source of chirality: (S)-proline

Absolute configuration: (6R,2S)

Stéphane Lebrun, Axel Couture,* Eric Deniau, Pierre Grandclaudon

Tetrahedron: Asymmetry 19 (2008) 1245



$C_{12}H_{22}N_2O_3$

(6R,2S)-(-)-6-Hydroxymethyl-1-(2-methoxymethylpyrrolidin-1-yl)piperidin-2-one

De >95%

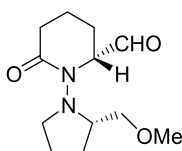
$[\alpha]_D^{20} = -23.4$ (c 0.80, $CHCl_3$)

Source of chirality: (S)-proline

Absolute configuration: (6R,2S)

Stéphane Lebrun, Axel Couture,* Eric Deniau, Pierre Grandclaudon

Tetrahedron: Asymmetry 19 (2008) 1245



$C_{12}H_{20}N_2O_3$

(2S,2R)-(-)-1-(2-Methoxymethylpyrrolidin-1-yl)-6-oxo-piperidin-2-carbaldehyde

De >95%

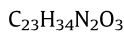
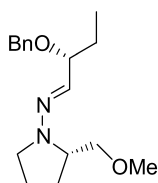
$[\alpha]_D^{20} = -41.1$ (c 2.30, $CHCl_3$)

Source of chirality: (S)-proline

Absolute configuration: (2S,2R)

Stéphane Lebrun, Axel Couture,* Eric Deniau, Pierre Grandclaudon

Tetrahedron: Asymmetry 19 (2008) 1245



(2R,2S)-(-)-(E)-N-(2-Benzyloxybutylidene)-N-(2-methoxymethylpyrrolidin-1-yl)amine

De >95%

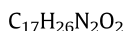
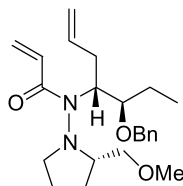
$[\alpha]_D^{20} = -31.4$ (c 1.54, $CHCl_3$)

Source of chirality: (S)-proline

Absolute configuration: (2R,2S)

Stéphane Lebrun, Axel Couture,* Eric Deniau, Pierre Grandclaudon

Tetrahedron: Asymmetry 19 (2008) 1245



(1R,1R,2S)-(-)-N-[1-(1-Benzyloxypropyl)but-3-enyl]-N-(2-methoxymethylpyrrolidin-1-yl)acrylamide

De >95%

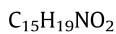
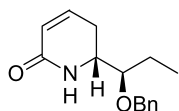
$[\alpha]_D^{20} = -9.3$ (c 2.0, $CHCl_3$)

Source of chirality: (S)-proline

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

Stéphane Lebrun, Axel Couture,* Eric Deniau, Pierre Grandclaudon

Tetrahedron: Asymmetry 19 (2008) 1245



(6R,1R)-(+)-6-(1-Benzyloxypropyl)-5,6-dihydro-1H-pyridin-2-one

De >95%

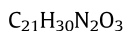
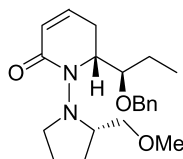
$[\alpha]_D^{20} = +15.1$ (c 0.99, $CHCl_3$)

Source of chirality: (S)-proline

Absolute configuration: (6R,1R)

Stéphane Lebrun, Axel Couture,* Eric Deniau, Pierre Grandclaudon

Tetrahedron: Asymmetry 19 (2008) 1245



(6R,1R,2S)-(+)-6-(1-Benzyloxypropyl)-1-(2-methoxymethylpyrrolidin-1-yl)-5,6-dihydro-1H-pyridin-2-one

De >95%

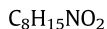
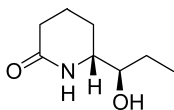
$[\alpha]_D^{20} = +24.7$ (c 0.72, $CHCl_3$)

Source of chirality: (S)-proline

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

Stéphane Lebrun, Axel Couture,* Eric Deniau, Pierre Grandclaudon

Tetrahedron: Asymmetry 19 (2008) 1245



(6*R*,1*R*)-(+)-6-(1-Hydroxypropyl)piperidin-2-one

De >95%

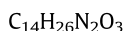
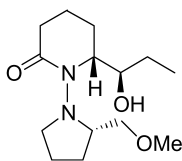
$[\alpha]_D^{20} = +15.3$ (c 0.84, $CHCl_3$)

Source of chirality: (*S*)-proline

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

Stéphane Lebrun, Axel Couture,* Eric Deniau, Pierre Grandclaudon

Tetrahedron: Asymmetry 19 (2008) 1245



(6*R*,1*R*,2*S*)-(+)-6-(1-Hydroxypropyl)-1-(2-methoxymethylpyrrolidin-1-yl)piperidin-2-one

De >95%

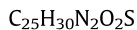
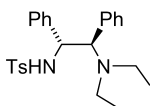
$[\alpha]_D^{20} = +24.1$ (c 0.54, $CHCl_3$)

Source of chirality: (*S*)-proline

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

José E. D. Martins, Martin Wills*

Tetrahedron: Asymmetry 19 (2008) 1250



N-(2-Diethylamino-1,2-diphenyl-ethyl)-4-methyl-benzenesulfonamide

Ee = 100%

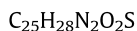
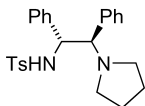
$[\alpha]_D^{20} = +11.4$ (c 0.5, $CHCl_3$)

Source of chirality: enantiomerically pure starting material, (*R,R*)-TsDPEN

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

José E. D. Martins, Martin Wills*

Tetrahedron: Asymmetry 19 (2008) 1250



N-(1,2-Diphenyl-2-pyrrolidin-1-yl-ethyl)-4-methyl-benzenesulfonamide

Ee = 100%

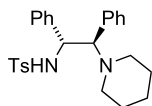
$[\alpha]_D^{20} = -1.6$ (c 0.5, $CHCl_3$)

Source of chirality: enantiomerically pure starting material, (*R,R*)-TsDPEN

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

José E. D. Martins, Martin Wills*

Tetrahedron: Asymmetry 19 (2008) 1250



$C_{26}H_{30}N_2O_2S$

N-(1,2-Diphenyl-2-piperidin-1-yl-ethyl)-4-methyl-benzenesulfonamide

Ee = 100%

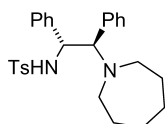
$[\alpha]_D^{20} = +3.3$ (c 0.5, $CHCl_3$)

Source of chirality: enantiomerically pure starting material, (*R,R*)-TsDPEN

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

José E. D. Martins, Martin Wills*

Tetrahedron: Asymmetry 19 (2008) 1250



$C_{27}H_{32}N_2O_2S$

N-(2-Azepan-1-yl-1,2-diphenyl-ethyl)-4-methyl-benzenesulfonamide

Ee = 100%

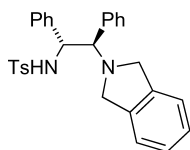
$[\alpha]_D^{20} = +39$ (c 0.5, $CHCl_3$)

Source of chirality: enantiomerically pure starting material, (*R,R*)-TsDPEN

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

José E. D. Martins, Martin Wills*

Tetrahedron: Asymmetry 19 (2008) 1250



$C_{29}H_{27}N_2O_2S$

N-[2-(1,3-Dihydro-isindol-2-yl)-1,2-diphenyl-ethyl]-4-methyl-benzenesulfonamide

Ee = 100%

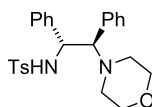
$[\alpha]_D^{23} = +16.5$ (c 0.2, $CHCl_3$)

Source of chirality: enantiomerically pure starting material, (*R,R*)-TsDPEN

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

José E. D. Martins, Martin Wills*

Tetrahedron: Asymmetry 19 (2008) 1250



$C_{25}H_{28}N_2O_3S$

4-Methyl-*N*-(2-morpholin-4-yl-1,2-diphenyl-ethyl)-benzenesulfonamide

Ee = 100%

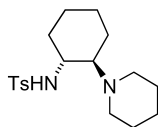
$[\alpha]_D^{20} = +12.7$ (c 0.5, $CHCl_3$)

Source of chirality: enantiomerically pure starting material, (*R,R*)-TsDPEN

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

José E. D. Martins, Martin Wills*

Tetrahedron: Asymmetry 19 (2008) 1250



$C_{18}H_{28}N_2O_2S$

4-Methyl-N-(2-piperidin-1-yl-cyclohexyl)-benzenesulfonamide

Ee = 100%

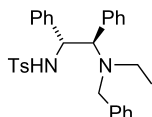
$[\alpha]_D^{20} = -92$ (c 1, $CHCl_3$)

Source of chirality: enantiomerically pure starting material, (R,R)-N-tosyl-1,2-cyclohexadiamine

Absolute configuration: (1R,2R)

José E. D. Martins, Martin Wills*

Tetrahedron: Asymmetry 19 (2008) 1250



$C_{30}H_{31}N_2O_2S$

N-[2-(Benzyl-ethyl-amino)-1,2-diphenyl-ethyl]-4-methyl-benzenesulfonamide

Ee = 100%

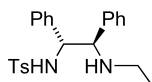
$[\alpha]_D^{20} = -33$ (c 0.5, $CHCl_3$)

Source of chirality: enantiomerically pure starting material, (R,R)-TsDPEN

Absolute configuration: (1R,2R)

José E. D. Martins, Martin Wills*

Tetrahedron: Asymmetry 19 (2008) 1250



$C_{23}H_{26}N_2O_2S$

N-(2-Ethylamino-1,2-diphenyl-ethyl)-4-methyl-benzenesulfonamide

Ee = 100%

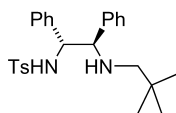
$[\alpha]_D^{20} = -11.5$ (c 0.5, $CHCl_3$)

Source of chirality: enantiomerically pure starting material, (R,R)-TsDPEN

Absolute configuration: (1R,2R)

José E. D. Martins, Martin Wills*

Tetrahedron: Asymmetry 19 (2008) 1250



$C_{26}H_{32}N_2O_2S$

N-[2-(2,2-Dimethyl-propylamino)-1,2-diphenyl-ethyl]-4-methyl-benzenesulfonamide

Ee = 100%

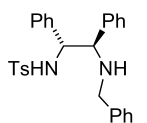
$[\alpha]_D^{20} = -37$ (c 0.5, $CHCl_3$)

Source of chirality: enantiomerically pure starting material, (R,R)-TsDPEN

Absolute configuration: (1R,2R)

José E. D. Martins, Martin Wills*

Tetrahedron: Asymmetry 19 (2008) 1250



$C_{28}H_{28}N_2O_2S$

N-(2-Benzylamino-1,2-diphenyl-ethyl)-4-methyl-benzenesulfonamide

Ee = 100%

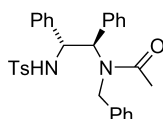
$[\alpha]_D^{20} = -33$ (c 0.5, $CHCl_3$)

Source of chirality: enantiomerically pure starting material, (*R,R*)-TsDPEN

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

José E. D. Martins, Martin Wills*

Tetrahedron: Asymmetry 19 (2008) 1250



$C_{30}H_{30}N_2O_3S$

N-Benzyl-*N*-[1,2-diphenyl-2-(toluene-4-sulfonylamino)-ethyl]-acetamide

Ee = 100%

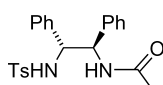
$[\alpha]_D^{25} = -46$ (c 1.0, $CHCl_3$)

Source of chirality: enantiomerically pure starting material, (*RR*)-TsDPEN

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

José E. D. Martins, Martin Wills*

Tetrahedron: Asymmetry 19 (2008) 1250



$C_{23}H_{24}N_2O_3S$

N-[1,2-Diphenyl-2-(toluene-4-sulfonylamino)-ethyl]-acetamide

Ee = 100%

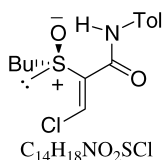
$[\alpha]_D^{20} = +7$ (c 1.0, $CHCl_3$)

Source of chirality: enantiomerically pure starting material, (*R,R*)-TsDPEN

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

Marie Kissane, Denis Lynch, Jay Chopra, Simon E. Lawrence, Anita R. Maguire*

Tetrahedron: Asymmetry 19 (2008) 1256



$C_{14}H_{18}NO_2SCl$

(*S*)-*N*-4'-Methylphenyl-*Z*-3-chloro-2-(*n*-butylsulfinyl)propenamide

Ee = 51%

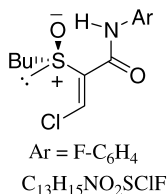
$[\alpha]_D^{24} = -84$ (c 1.8, DCM)

Source of chirality: asymmetric synthesis

Absolute configuration: (*S*)

Marie Kissane, Denis Lynch, Jay Chopra, Simon E. Lawrence, Anita R. Maguire*

Tetrahedron: Asymmetry 19 (2008) 1256



(S)-N-4'-Fluorophenyl-Z-3-chloro-2-(n-butylsulfinyl)propenamide

Ee = 51%

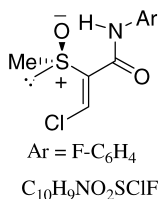
[α]_D²⁴ = -98 (c 1.3, DCM)

Source of chirality: asymmetric synthesis

Absolute configuration: (S)

Marie Kissane, Denis Lynch, Jay Chopra, Simon E. Lawrence, Anita R. Maguire*

Tetrahedron: Asymmetry 19 (2008) 1256



(S)-N-4'-Fluorophenyl-Z-3-chloro-2-(methylsulfinyl)propenamide

Ee = 71% (>98% after recrystallisation)

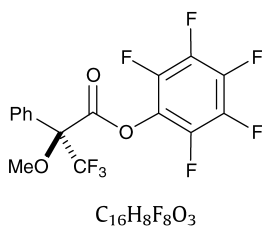
[α]_D²⁴ = -117 (c 2, acetone)

Source of chirality: asymmetric synthesis

Absolute configuration: (S)

Sameer Chavda, Elliot Coulbeck, Marco Dingjan, Jason Eames*, Majid Motevalli

Tetrahedron: Asymmetry 19 (2008) 1274



(S)-Pentafluorophenyl 2-phenyl-2-methoxy-2-trifluoromethyl acetate

Ee >98%

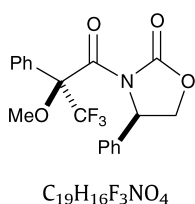
[α]_D²⁰ = -47.1 (c 1.22, CHCl₃)

Source of chirality: chiral pool

Absolute configuration: (S)

Sameer Chavda, Elliot Coulbeck, Marco Dingjan, Jason Eames*, Majid Motevalli

Tetrahedron: Asymmetry 19 (2008) 1274



(2S,4R)-3-(2-Phenyl-2-methoxy-2-trifluoroethanonyl)-4-phenyl-oxazolidin-2-one

De >98%; Ee >98%

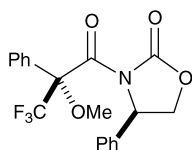
[α]_D²⁰ = -17.4 (c 1.4, CHCl₃)

Source of chirality: chiral pool

Absolute configuration: (S,R)

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$C_{19}H_{16}F_3NO_4$

(2*R*,4*R*)-3-(2-Phenyl-2-methoxy-2-trifluoroethanonyl)-4-phenyl-oxazolidin-2-one

De >98%; Ee >98%

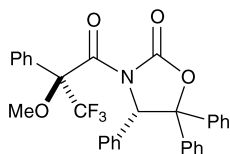
$[\alpha]_D^{20} = +136.4$ (c 1.07, $CHCl_3$)

Source of chirality: chiral pool

Absolute configuration: (*R,R*)

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$C_{31}H_{24}F_3NO_4$

(2*S*,4*S*)-3-(2-Phenyl-2-methoxy-2-trifluoroethanonyl)-4,5,5-triphenyl-oxazolidin-2-one

De >98%; Ee >98%

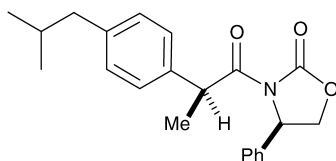
$[\alpha]_D^{20} = -232.4$ (c 1.05, $CHCl_3$)

Source of chirality: chiral pool

Absolute configuration: (*S,S*)

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$C_{22}H_{25}NO_3$

(2*S*,4*R*)-3-[2-(4-Isobutylphenyl)propionyl]-4-phenyl-oxazolidin-2-one

De >98%; Ee >98%

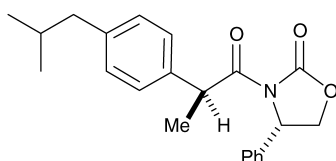
$[\alpha]_D^{20} = +118.7$ (c 6.0, $CHCl_3$)

Source of chirality: chiral pool

Absolute configuration: (*S,R*)

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$C_{22}H_{25}NO_3$

(2*S*,4*S*)-3-[2-(4-Isobutylphenyl)propionyl]-4-phenyl-oxazolidin-2-one

De >98%; Ee >98%

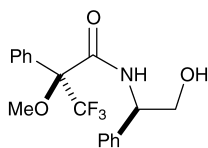
$[\alpha]_D^{20} = +156.5$ (c 3.5, $CHCl_3$)

Source of chirality: chiral pool

Absolute configuration: (*S,S*)

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Tetrahedron: Asymmetry 19 (2008) 1274



$C_{18}H_{18}F_3NO_3$

(2S,4R)-N-(2-Hydroxy-1-phenylethyl)-2-phenyl-2-methoxy-2-trifluoromethylacetamide

De >98%; Ee >98%

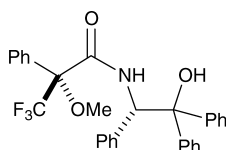
$[\alpha]_D^{20} = -42.8$ (c 1.1, EtOH)

Source of chirality: chiral pool

Absolute configuration: (S,R)

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$C_{30}H_{26}F_3NO_3$

(2R,4S)-N-(2-Hydroxy-1,2,2-triphenylethyl)-2-phenyl-2-methoxy-2-trifluoromethylacetamide

De >98%; Ee >98%

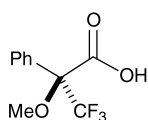
$[\alpha]_D^{20} = -132.0$ (c 1.6, $CHCl_3$)

Source of chirality: chiral pool

Absolute configuration: (R,S)

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$C_{10}H_9F_3O_3$

(S)-2-Phenyl-2-methoxy-2-trifluoromethyl acetic acid

Ee >95%

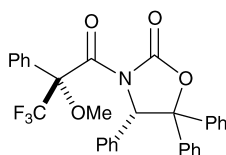
$[\alpha]_D^{20} = -65.0$ (c 0.4, $CHCl_3$)

Source of chirality: chiral pool

Absolute configuration: (S)

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Tetrahedron: Asymmetry 19 (2008) 1274



$C_{31}H_{24}F_3NO_4$

(2R,4S)-3-(2-Phenyl-2-methoxy-2-trifluoroethanonyl)-4,5,5-triphenyl-oxazolidin-2-one

De >98%; Ee >98%

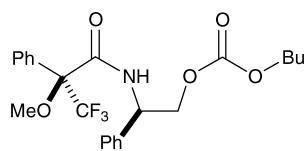
$[\alpha]_D^{20} = -2.7$ (c 0.9, $CHCl_3$)

Source of chirality: chiral pool

Absolute configuration: (R,S)

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Tetrahedron: Asymmetry 19 (2008) 1274



$C_{23}H_{26}F_3NO_5$

(2*S*,2*R*)-(2-Phenyl-2-methoxy-2-trifluoroethanonyl) {2-[(butoxycarbonyl)oxy]-2-phenylethyl} carbamate

De>98%; Ee>98%

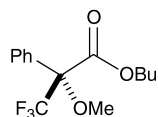
$[\alpha]_D^{20} = -19.2$ (c 3.9, $CHCl_3$)

Source of chirality: chiral pool

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

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Tetrahedron: Asymmetry 19 (2008) 1274



$C_{14}H_{17}F_3O_3$

(*R*)-Butyl 2-phenyl-2-methoxy-2-trifluoromethyl acetate

Ee>98%

$[\alpha]_D^{20} = +48.0$ (c 5.8, $CHCl_3$)

Source of chirality: chiral pool

Absolute configuration: (*R*)