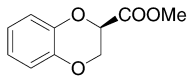
Cristiano Bolchi,* Marco Pallavicini, Laura Fumagalli, Chiara Rusconi, Matteo Binda and Ermanno Valoti

Tetrahedron: Asymmetry *18 (2007) 1038*



$C_{10}H_{10}O_4$

(*R*)-Methyl 1,4-benzodioxan-2-carboxylate

Ee >99%

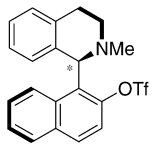
$[\alpha]_D^{25} = +57$ (*c* 1, $CHCl_3$)

Source of chirality: resolution of racemate by preferential crystallization

Absolute configuration: (*R*)

Jianqing Feng, D. Scott Bohle and Chao-Jun Li*

Tetrahedron: Asymmetry *18 (2007) 1043*



$C_{21}H_{18}NO_3SF_3$

(*S*,a*R*) (−)-1-(1,2,3,4-Tetrahydro-2-methylisoquinolin-1-yl)naphthalen-2-yl trifluoromethanesulfonate

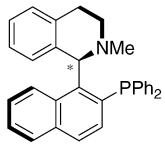
$[\alpha]_D^{20} = -81.55$ (*c* 1.8, CH_2Cl_2)

Source of chirality: enantiomerically pure starting material

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

Jianqing Feng, D. Scott Bohle and Chao-Jun Li*

Tetrahedron: Asymmetry *18 (2007) 1043*



$C_{32}H_{27}NP$

(mTHIQ-NAP) (*S*,a*R*)-1,2,3,4-Tetrahydro-2-methyl-1-(2-(diphenylphosphino)naphthalen-1-yl)isoquinoline

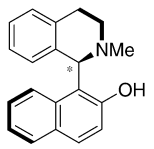
$[\alpha]_D^{20} = -130.5$ (*c* 1.4, $CHCl_3$)

Source of chirality: enantiomerically pure starting material

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

Jianqing Feng, D. Scott Bohle and Chao-Jun Li*

Tetrahedron: Asymmetry *18 (2007) 1043*



$C_{20}H_{20}NO$

(mTHIQNOL) (*S*,a*R*) (−)-1-(2-Methyl-1,2,3,4-tetrahydroisoquinolin-1-yl)naphthalen-2-ol

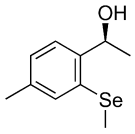
$[\alpha]_D^{20} = -304.7$ (*c* 0.4; CH_2Cl_2).

Source of chirality: resolution

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

Álvaro T. Omori, Leonardo F. Assis, Leandro H. Andrade, João V. Comasseto and André L. M. Porto*

Tetrahedron: Asymmetry *18 (2007) 1048*

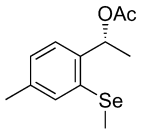


Ee = 99%
$[\alpha]_D^{25} = -50.7$ (*c* 1.24, $CHCl_3$)
Absolute configuration: (*S*)

$C_{10}H_{14}OSe$
(−)-(*S*)-1-(2-(Methylselanyl)-4-methylphenyl)ethanol

Álvaro T. Omori, Leonardo F. Assis, Leandro H. Andrade, João V. Comasseto and André L. M. Porto*

Tetrahedron: Asymmetry *18 (2007) 1048*

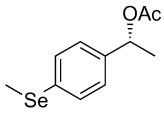


Ee = 99%
$[\alpha]_D^{25} = +40.8$ (*c* 1.57, $CHCl_3$)
Absolute configuration: (*R*)

C12H16O_2Se
(+)-(*R*)-1-(2-(Methylselanyl)-4-methylphenyl)ethyl acetate

Álvaro T. Omori, Leonardo F. Assis, Leandro H. Andrade, João V. Comasseto and André L. M. Porto*

Tetrahedron: Asymmetry *18 (2007) 1048*

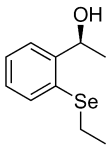


Ee = 99%
$[\alpha]_D^{25} = +127.3$ (*c* 1.4, $CHCl_3$)
Absolute configuration: (*R*)

$C_{11}H_{14}O_2Se$
(+)-(*R*)-1-(4-(Methylselanyl)phenyl)ethyl acetate

Álvaro T. Omori, Leonardo F. Assis, Leandro H. Andrade, João V. Comasseto and André L. M. Porto*

Tetrahedron: Asymmetry *18 (2007) 1048*

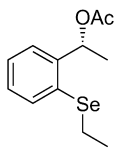


Ee = 99%
$[\alpha]_D^{25} = -54.2$ (*c* 1.4, $CHCl_3$)
Absolute configuration: (*S*)

$C_{10}H_{14}OSe$
(−)-(*S*)-1-(2-(Ethylselanyl)phenyl)ethanol

Álvaro T. Omori, Leonardo F. Assis, Leandro H. Andrade, João V. Comasseto and André L. M. Porto*

Tetrahedron: Asymmetry *18 (2007) 1048*



$C_{12}H_{16}O_2Se$

(+)-(*R*)-1-(2-(Ethylselanyl)phenyl)ethyl acetate

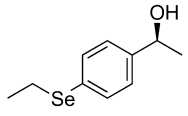
Ee = 76%

$[\alpha]_D^{25} = +31.35$ (*c* 1.4, $CHCl_3$)

Absolute configuration: (*R*)

Álvaro T. Omori, Leonardo F. Assis, Leandro H. Andrade, João V. Comasseto and André L. M. Porto*

Tetrahedron: Asymmetry *18 (2007) 1048*



$C_{10}H_{14}OSe$

(−)-(*S*)-1-(4-(Ethylselanyl)phenyl)ethanol

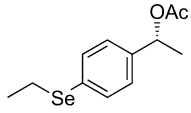
Ee = 99%

$[\alpha]_D^{25} = -55.4$ (*c* 1.3, $CHCl_3$)

Absolute configuration: (*S*)

Álvaro T. Omori, Leonardo F. Assis, Leandro H. Andrade, João V. Comasseto and André L. M. Porto*

Tetrahedron: Asymmetry *18 (2007) 1048*



$C_{12}H_{16}O_2Se$

(+)-(*R*)-1-(4-(Ethylselanyl)phenyl)ethyl acetate

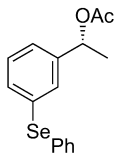
Ee = 90%

$[\alpha]_D^{25} = +88.4$ (*c* 1.3, $CHCl_3$)

Absolute configuration: (*R*)

Álvaro T. Omori, Leonardo F. Assis, Leandro H. Andrade, João V. Comasseto and André L. M. Porto*

Tetrahedron: Asymmetry *18 (2007) 1048*



$C_{16}H_{16}O_2Se$

(+)-(*R*)-1-(3-(Phenylselanyl)phenyl)ethyl acetate

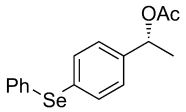
Ee = 90%

$[\alpha]_D^{25} = +43.3$ (*c* 1.2, $CHCl_3$)

Absolute configuration: (*R*)

Álvaro T. Omori, Leonardo F. Assis, Leandro H. Andrade, João V. Comasseto and André L. M. Porto*

Tetrahedron: Asymmetry *18 (2007) 1048*



$C_{16}H_{16}O_2Se$

(+)-(*R*)-1-(4-(Phenylselanyl)phenyl)ethyl acetate

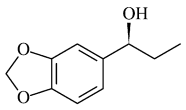
Ee = 99%

$[\alpha]_D^{25} = +84.4$ (*c* 1.1, $CHCl_3$)

Absolute configuration: (*R*)

Juliana B. Reigada, Celize. M. Tcacenco, Leandro H. Andrade, Massuo J. Kato, André L. M. Porto and João Henrique G. Lago*

Tetrahedron: Asymmetry *18 (2007) 1054*



$C_{10}H_{12}O_3$

(−)-(*S*)-1-(3,4-Methylenedioxyphenyl)propan-1-ol (marginatol)

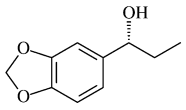
Ee = 99%

$[\alpha]_D^{25} = -34.1$ (*c* 3.26, $CHCl_3$)

Absolute configuration: (*S*)

Juliana B. Reigada, Celize. M. Tcacenco, Leandro H. Andrade, Massuo J. Kato, André L. M. Porto and João Henrique G. Lago*

Tetrahedron: Asymmetry *18 (2007) 1054*



$C_{10}H_{12}O_3$

(+)-(*R*)-1-(3,4-Methylenedioxyphenyl)propan-1-ol (marginatol)

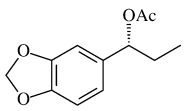
Ee = 99%

$[\alpha]_D^{25} = +31.6$ (*c* 3.20, $CHCl_3$)

Absolute configuration: (*R*)

Juliana B. Reigada, Celize. M. Tcacenco, Leandro H. Andrade, Massuo J. Kato, André L. M. Porto and João Henrique G. Lago*

Tetrahedron: Asymmetry *18 (2007) 1054*



$C_{12}H_{14}O_4$

(+)-(*R*)-1-(3,4-Methylenedioxyphenyl)propyl acetate

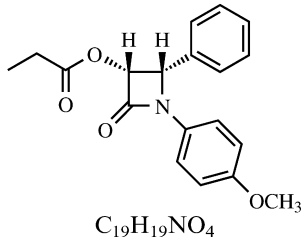
Ee = 99%

$[\alpha]_D^{25} = +101.3$ (*c* 3.10, $CHCl_3$)

Absolute configuration: (*R*)

Naveen Anand, Munish Kapoor, Khursheed Ahmad, Surrinder Koul, Rajinder Parshad, Kuldip S. Manhas, Rattan L. Sharma, Ghulam N. Qazi and Subhash C. Taneja*

Tetrahedron: Asymmetry *18 (2007) 1059*



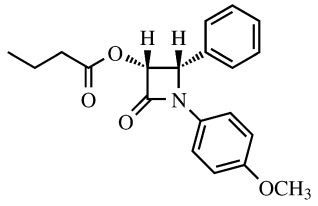
$C_{19}H_{19}NO_4$

(+)-*cis*-(3*R*,4*S*)-3-Propyloxy-1-(4-methoxyphenyl)-4-phenyl-2-azetidinone

Ee >99.5% (HPLC analysis)
$[\alpha]_D^{25} = +3.5$ (*c* 0.6, $CHCl_3$)
Source of chirality: enzymatic hydrolysis
Absolute configuration: (3*R*,4*S*)

Naveen Anand, Munish Kapoor, Khursheed Ahmad, Surrinder Koul, Rajinder Parshad, Kuldip S. Manhas, Rattan L. Sharma, Ghulam N. Qazi and Subhash C. Taneja*

Tetrahedron: Asymmetry *18 (2007) 1059*



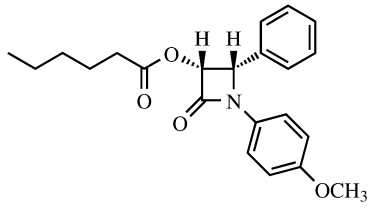
$C_{20}H_{21}NO_4$

(+)-*cis*-(3*R*,4*S*)-3-Butyloxy-1-(4-methoxyphenyl)-4-phenyl-2-azetidinone

Ee >99.5% (HPLC analysis)
$[\alpha]_D^{25} = +7.6$ (*c* 0.54, $CHCl_3$)
Source of chirality: enzymatic hydrolysis
Absolute configuration: (3*R*,4*S*)

Naveen Anand, Munish Kapoor, Khursheed Ahmad, Surrinder Koul, Rajinder Parshad, Kuldip S. Manhas, Rattan L. Sharma, Ghulam N. Qazi and Subhash C. Taneja*

Tetrahedron: Asymmetry *18 (2007) 1059*



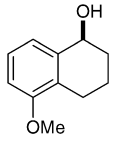
$C_{22}H_{25}NO_4$

(+)-*cis*-(3*R*,4*S*)-3-Hexyloxy-1-(4-methoxyphenyl)-4-phenyl-2-azetidinone

Ee >99.5% (HPLC analysis)
$[\alpha]_D^{25} = +11.6$ (*c* 1, $CHCl_3$)
Source of chirality: enzymatic hydrolysis
Absolute configuration: (3*R*,4*S*)

Helena M. C. Ferraz,* Graziela G. Bianco, Carla C. Teixeira, Leandro H. Andrade and André L. M. Porto

Tetrahedron: Asymmetry *18 (2007) 1070*



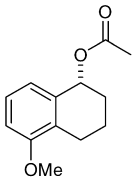
$C_{11}H_{14}O_2$

(*S*)-1,2,3,4-Tetrahydro-5-methoxynaphthalen-1-ol

Ee >99%
$[\alpha]_D^{27} = +23.3$ (*c* 1.04, $CHCl_3$)
Source of chirality: enzymatic resolution
Absolute configuration: (1*S*)

Helena M. C. Ferraz,* Graziela G. Bianco, Carla C. Teixeira, Leandro H. Andrade and André L. M. Porto

Tetrahedron: Asymmetry *18 (2007) 1070*



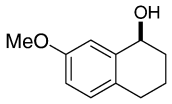
$C_{13}H_{16}O_3$

(*R*)-1,2,3,4-Tetrahydro-5-methoxynaphthalen-1-yl acetate

Ee >99%
$[\alpha]_D^{27} = +101.8$ (*c* 1.30, $CHCl_3$)
Source of chirality: enzymatic resolution
Absolute configuration: (1*R*)

Helena M. C. Ferraz,* Graziela G. Bianco, Carla C. Teixeira, Leandro H. Andrade and André L. M. Porto

Tetrahedron: Asymmetry *18 (2007) 1070*



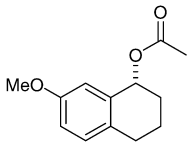
$C_{11}H_{14}O_2$

(*S*)-1,2,3,4-Tetrahydro-7-methoxynaphthalen-1-ol

Ee >99%
$[\alpha]_D^{24} = +41.9$ (*c* 1.05, $CHCl_3$)
Source of chirality: enzymatic resolution
Absolute configuration: (1*S*)

Helena M. C. Ferraz,* Graziela G. Bianco, Carla C. Teixeira, Leandro H. Andrade and André L. M. Porto

Tetrahedron: Asymmetry *18 (2007) 1070*



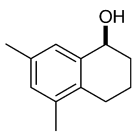
$C_{13}H_{16}O_3$

(*R*)-1,2,3,4-Tetrahydro-7-methoxynaphthalen-1-yl acetate

Ee >99%
$[\alpha]_D^{24} = +88.5$ (*c* 1.14, $CHCl_3$)
Source of chirality: enzymatic resolution
Absolute configuration: (1*R*)

Helena M. C. Ferraz,* Graziela G. Bianco, Carla C. Teixeira, Leandro H. Andrade and André L. M. Porto

Tetrahedron: Asymmetry *18 (2007) 1070*



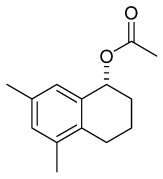
$C_{12}H_{16}O$

(*S*)-1,2,3,4-Tetrahydro-5,7-dimethylnaphthalen-1-ol

Ee = 99%
$[\alpha]_D^{27} = +38.9$ (*c* 1.20, $CHCl_3$)
Source of chirality: enzymatic resolution
Absolute configuration: (1*S*)

Helena M. C. Ferraz,* Graziela G. Bianco, Carla C. Teixeira, Leandro H. Andrade and André L. M. Porto

Tetrahedron: Asymmetry *18 (2007) 1070*



$C_{14}H_{18}O_2$

(*R*)-1,2,3,4-Tetrahydro-5,7-dimethylnaphthalen-1-yl acetate

Ee = 99%

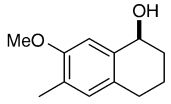
$[\alpha]_D^{22} = +98.1$ (*c* 1.22, $CHCl_3$)

Source of chirality: enzymatic resolution

Absolute configuration: (1*R*)

Helena M. C. Ferraz,* Graziela G. Bianco, Carla C. Teixeira, Leandro H. Andrade and André L. M. Porto

Tetrahedron: Asymmetry *18 (2007) 1070*



$C_{12}H_{16}O_2$

(+)-1,2,3,4-Tetrahydro-6-methyl-7-methoxynaphthalen-1-ol

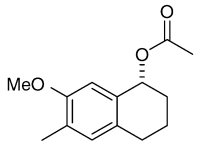
Ee = 98%

$[\alpha]_D^{27} = +36.9$ (*c* 0.99, $CHCl_3$)

Source of chirality: enzymatic resolution

Helena M. C. Ferraz,* Graziela G. Bianco, Carla C. Teixeira, Leandro H. Andrade and André L. M. Porto

Tetrahedron: Asymmetry *18 (2007) 1070*



$C_{14}H_{18}O_3$

(+)-1,2,3,4-Tetrahydro-6-methyl-7-methoxynaphthalen-1-yl acetate

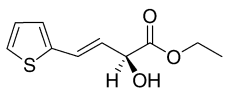
Ee >99%

$[\alpha]_D^{27} = +106.6$ (*c* 1.22, $CHCl_3$)

Source of chirality: enzymatic resolution

T. Vaijayanthi and Anju Chadha*

Tetrahedron: Asymmetry *18 (2007) 1077*



$C_{10}H_{12}O_3S$

(3*E*)-Ethyl-4-(thiophen-2-yl)-2-hydroxybut-3-enoate

Ee >99%

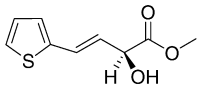
$[\alpha]_D^{25} = +97.6$ (*c* 1, MeOH) (rotation for corresponding acid)

Source of chirality: biocatalytic deracemisation

Absolute configuration: (*S*)

T. Vaijayanthi and Anju Chadha*

Tetrahedron: Asymmetry *18 (2007) 1077*



$C_9H_{10}O_3S$

(3*E*)-Methyl-4-(thiophen-2-yl)-2-hydroxybut-3-enoate

Ee >99%

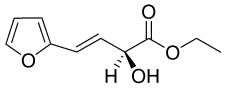
$[\alpha]_D^{25} = +96.9$ (*c* 1, MeOH) (rotation for corresponding acid)

Source of chirality: biocatalytic deracemisation

Absolute configuration: (*S*)

T. Vaijayanthi and Anju Chadha*

Tetrahedron: Asymmetry *18 (2007) 1077*



$C_{10}H_{12}O_4$

(3*E*)-Ethyl-4-(furan-2-yl)-2-hydroxybut-3-enoate

Ee >99%

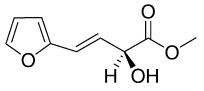
$[\alpha]_D^{25} = +25.6$ (*c* 1, MeOH) (rotation for corresponding acid)

Source of chirality: biocatalytic deracemisation

Absolute configuration: (*S*)

T. Vaijayanthi and Anju Chadha*

Tetrahedron: Asymmetry *18 (2007) 1077*



$C_9H_{10}O_4$

(3*E*)-Methyl-4-(furan-2-yl)-2-hydroxybut-3-enoate

Ee >99%

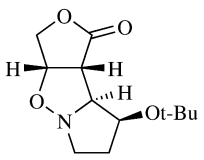
$[\alpha]_D^{25} = +25.1$ (*c* 1, MeOH) (rotation for corresponding acid)

Source of chirality: biocatalytic deracemisation

Absolute configuration: (*S*)

Sebastian Stecko, Konrad Paśniczek, Margarita Jurczak, Zofia Urbańczyk-Lipkowska and Marek Chmielewski*

Tetrahedron: Asymmetry *18 (2007) 1085*



$C_{12}H_{19}NO_4$

(1a*S*,4a*R*,4b*S*,5*S*)-5-*tert*-Butoxyhexahydrofuro[3,4-*d*]pyrrolo[1,2-*b*]isoxazol-4-(3*H*)-one

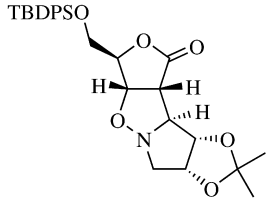
$[\alpha]_D^{25} = +1.2$ (*c* 0.4, CH_2Cl_2)

Source of chirality: asymmetric synthesis

Absolute configuration: (1a*S*,4a*R*,4b*S*,5*S*)

Sebastian Stecko, Konrad Paśniczek, Margarita Jurczak, Zofia Urbańczyk-Lipkowska and Marek Chmielewski*

Tetrahedron: Asymmetry *18 (2007) 1085*



$C_{26}H_{29}NO_6Si$

$[\alpha]_D^{25} = +22.5$ (c 0.4, CH_2Cl_2)

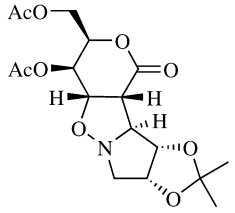
Source of chirality: asymmetric synthesis

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

(1a*S*,2*R*,4a*R*,4b*S*,5*S*,6*R*)-2-*tert*-Butyldiphenylsiloxymethyl-hexahydro-5,6-*O*-isopropylidenedioxy-pyrrolo[1,2-*b*]-furo[3,4-*d*]-isoxazol-4(3*H*)-one

Sebastian Stecko, Konrad Paśniczek, Margarita Jurczak, Zofia Urbańczyk-Lipkowska and Marek Chmielewski*

Tetrahedron: Asymmetry *18 (2007) 1085*



$C_{15}H_{17}NO_9$

$[\alpha]_D^{25} = +30.7$ (c 0.8, CH_2Cl_2)

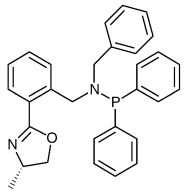
Source of chirality: asymmetric synthesis

Absolute configuration: (1a*S*,2*S*,3*R*,5a*R*,5b*S*,6*S*,7*R*)

(1a*S*,2*R*,3*R*,5a*R*,5b*S*,6*S*,7*R*)-2-Acetoxy-3-acetoxymethyl-hexahydro-6,7-*O*-isopropylidenedioxy-pyrrolo[1,2-*b*]-pyrano[3,4-*d*]-isoxazol-5(3*H*)-one

Raymond P. J. Bronger and Patrick J. Guiry*

Tetrahedron: Asymmetry *18 (2007) 1094*



$C_{30}H_{29}N_2OP$

$[\alpha]_D^{20} = +88$ (c 0.28, $CHCl_3$)

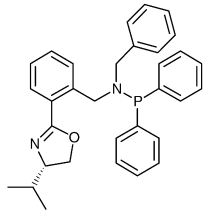
Source of chirality: (*S*)-(+)-2-amino-1-propanol

Absolute configuration: (*S*)

2-(*N*-Benzyl-*N*-diphenylphosphino-2-aminomethylphenyl)-(4*S*)-4-methyl- 4,5-dihydrooxazole

Raymond P. J. Bronger and Patrick J. Guiry*

Tetrahedron: Asymmetry *18 (2007) 1094*



$C_{32}H_{33}N_2OP$

$[\alpha]_D^{20} = +114$ (c 0.30, $CHCl_3$)

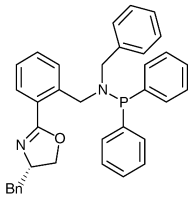
Source of chirality: (*S*)-(+)-2-amino-3-methyl-1-butanol

Absolute configuration: (*S*)

2-(*N*-Benzyl-*N*-diphenylphosphino-2-aminomethylphenyl)-(4*S*)-4-*i*-propyl-4,5-dihydrooxazole

Raymond P. J. Bronger and Patrick J. Guiry*

Tetrahedron: Asymmetry *18 (2007) 1094*



$[\alpha]_D^{20} = +51$ (c 0.30, $CHCl_3$)

Source of chirality: (*S*)-(−)-2-amino-3-phenyl-1-propanol

Absolute configuration: (*S*)

$C_{36}H_{33}N_2OP$

2-(*N*-Benzyl-*N*-diphenylphosphino-2-aminomethylphenyl)-(4*S*)-4-benzyl-4,5-dihydrooxazole

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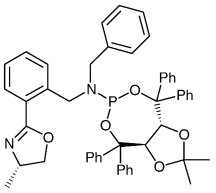
Raymond P. J. Bronger and Patrick J. Guiry*

Tetrahedron: Asymmetry *18 (2007) 1094*



$[\alpha]_D^{20} = -121.2$ (c 0.33, $CHCl_3$)

Source of chirality: (*S*)-(+)-2-amino-1-propanol; (4*R*,5*R*)-2,2-dimethyl-α,α,α′,α′-tetraphenyldioxolane-4,5-dimethanol

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

$C_{49}H_{48}N_2O_5P$

2-(*N*-Benzyl-*N*-(−)-TADDOL-2-aminomethylphenyl)-(4*S*)-4-methyl-4,5-dihydrooxazole

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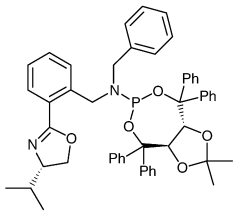
Raymond P. J. Bronger and Patrick J. Guiry*

Tetrahedron: Asymmetry *18 (2007) 1094*



$[\alpha]_D^{20} = -145$ (c 0.31, $CHCl_3$)

Source of chirality: (*S*)-(+)-2-amino-3-methyl-1-butanol; (4*R*,5*R*)-2,2-dimethyl-α,α,α′,α′-tetraphenyl-dioxolane-4,5-dimethanol

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

$C_{51}H_{51}N_2O_5P$

2-(*N*-Benzyl-*N*-(−)-TADDOL-2-aminomethylphenyl)-(4*S*)-4-*i*-propyl-4,5-dihydrooxazole

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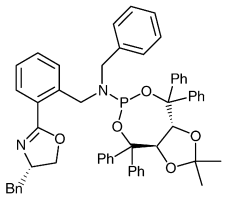
Raymond P. J. Bronger and Patrick J. Guiry*

Tetrahedron: Asymmetry *18 (2007) 1094*



$[\alpha]_D^{20} = -112$ (c 0.28, $CHCl_3$)

Source of chirality: (*S*)-(−)-2-amino-3-phenyl-1-propanol; (4*R*,5*R*)-2,2-dimethyl-α,α,α′,α′-tetraphenyl-dioxolane-4,5-dimethanol

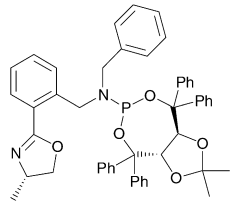
Absolute configuration: (*S*,*R*,*R*)

$C_{55}H_{52}N_2O_5P$

2-(*N*-Benzyl-*N*-(−)-TADDOL-2-aminomethylphenyl)-(4*S*)-4-benzyl-4,5-dihydrooxazole

Raymond P. J. Bronger and Patrick J. Guiry*

Tetrahedron: Asymmetry *18 (2007) 1094*

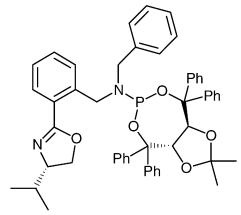


$[\alpha]_D^{20} = +97$ (*c* 0.28, $CHCl_3$)
Source of chirality: (*S*)-(+)-2-amino-1-propanol; (4*S*,5*S*)-2,2-dimethyl-α,α,α′,α′-tetraphenyldioxolane-4,5-dimethanol
Absolute configuration: (*S*,*S*,*S*)

$C_{49}H_{48}N_2O_5P$
2-(*N*-Benzyl-*N*-(+)-TADDOL-2-aminomethylphenyl)-(4*S*)-4-methyl-4,5-dihydrooxazole

Raymond P. J. Bronger and Patrick J. Guiry*

Tetrahedron: Asymmetry *18 (2007) 1094*

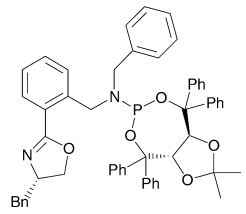


$[\alpha]_D^{20} = +95$ (*c* 0.29, $CHCl_3$)
Source of chirality: (*S*)-(+)-2-amino-3-methyl-1-butanol; (4*S*,5*S*)-2,2-dimethyl-α,α,α′,α′-tetraphenyldioxolane-4,5-dimethanol
Absolute configuration: (*S*,*S*,*S*)

$C_{51}H_{51}N_2O_5P$
2-(*N*-Benzyl-*N*-(+)-TADDOL-2-aminomethylphenyl)-(4*S*)-4-*i*-propyl-4,5-dihydrooxazole

Raymond P. J. Bronger and Patrick J. Guiry*

Tetrahedron: Asymmetry *18 (2007) 1094*

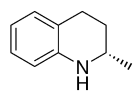


$[\alpha]_D^{20} = +55$ (*c* 0.29, $CHCl_3$);
Source of chirality: (*S*)-(−)-2-amino-3-phenyl-1-propanol; (4*S*,5*S*)-2,2-dimethyl-α,α,α′,α′-tetraphenyldioxolane-4,5-dimethanol
Absolute configuration: (*S*,*S*,*S*)

$C_{55}H_{52}N_2O_5P$
2-(*N*-Benzyl-*N*-(+)-TADDOL-2-aminomethylphenyl)-(4*S*)-4-benzyl-4,5-dihydrooxazole

Da-Wei Wang, Wei Zeng and Yong-Gui Zhou*

Tetrahedron: Asymmetry *18 (2007) 1103*

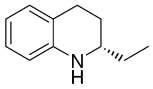


$[\alpha]_D = -73.2$ (*c* 0.56, $CHCl_3$)
Source of chirality: asymmetric hydrogenation
Absolute configuration: (*S*)

$C_{10}H_{13}N$
(*S*)-2-Methyl-1,2,3,4-tetrahydroquinoline

Da-Wei Wang, Wei Zeng and Yong-Gui Zhou*

Tetrahedron: Asymmetry *18 (2007) 1103*

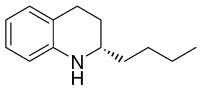


$C_{11}H_{15}N$
(*S*)-2-Ethyl-1,2,3,4-tetrahydroquinoline

$[\alpha]_D = -70.9$ (*c* 0.66, $CHCl_3$)
Source of chirality: asymmetric hydrogenation
Absolute configuration: (*S*)

Da-Wei Wang, Wei Zeng and Yong-Gui Zhou*

Tetrahedron: Asymmetry *18 (2007) 1103*

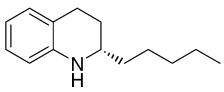


$C_{13}H_{19}N$
(*S*)-2-Butyl-1,2,3,4-tetrahydroquinoline

$[\alpha]_D = -72.2$ (*c* 0.92, $CHCl_3$)
Source of chirality: asymmetric hydrogenation
Absolute configuration: (*S*)

Da-Wei Wang, Wei Zeng and Yong-Gui Zhou*

Tetrahedron: Asymmetry *18 (2007) 1103*

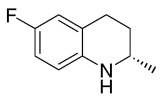


$C_{14}H_{21}N$
(*S*)-2-Pentyl-1,2,3,4-tetrahydroquinoline

$[\alpha]_D = -41.3$ (*c* 0.92, $CHCl_3$)
Source of chirality: asymmetric hydrogenation
Absolute configuration: (*S*)

Da-Wei Wang, Wei Zeng and Yong-Gui Zhou*

Tetrahedron: Asymmetry *18 (2007) 1103*

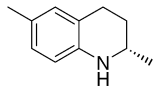


$C_{10}H_{12}FN$
(*S*)-6-Fluoro-2-methyl-1,2,3,4-tetrahydroquinoline

$[\alpha]_D = -54.4$ (*c* 0.70, $CHCl_3$)
Source of chirality: asymmetric hydrogenation
Absolute configuration: (*S*)

Da-Wei Wang, Wei Zeng and Yong-Gui Zhou*

Tetrahedron: Asymmetry *18 (2007) 1103*



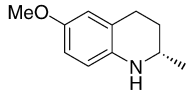
$C_{11}H_{15}N$

(*S*)-2,6-Dimethyl-1,2,3,4-tetrahydroquinoline

$[\alpha]_D = -65.3$ (*c* 0.62, $CHCl_3$)
Source of chirality: asymmetric hydrogenation
Absolute configuration: (*S*)

Da-Wei Wang, Wei Zeng and Yong-Gui Zhou*

Tetrahedron: Asymmetry *18 (2007) 1103*



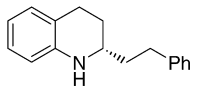
$C_{11}H_{15}NO$

(*S*)-6-Methoxy-2-methyl-1,2,3,4-tetrahydroquinoline

$[\alpha]_D = -63.5$ (*c* 0.36, $CHCl_3$)
Source of chirality: asymmetric hydrogenation
Absolute configuration: (*S*)

Da-Wei Wang, Wei Zeng and Yong-Gui Zhou*

Tetrahedron: Asymmetry *18 (2007) 1103*



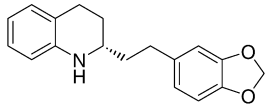
$C_{17}H_{19}N$

(*S*)-2-Phenethyl-1,2,3,4-tetrahydroquinoline

$[\alpha]_D = -67.2$ (*c* 1.14, $CHCl_3$)
Source of chirality: asymmetric hydrogenation
Absolute configuration: (*S*)

Da-Wei Wang, Wei Zeng and Yong-Gui Zhou*

Tetrahedron: Asymmetry *18 (2007) 1103*



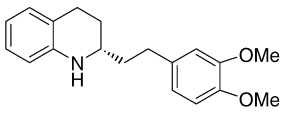
$C_{18}H_{19}NO_2$

(*S*)-2-(3′,4′-Methylenedioxyphenethyl)-1,2,3,4-tetrahydroquinoline

$[\alpha]_D = -50.0$ (*c* 1.19, $CHCl_3$)
Source of chirality: asymmetric hydrogenation
Absolute configuration: (*S*)

Da-Wei Wang, Wei Zeng and Yong-Gui Zhou*

Tetrahedron: Asymmetry *18 (2007) 1103*



$C_{19}H_{23}NO_2$

(*S*)-2-(3′,4′-Dimethoxyphenethyl)-1,2,3,4-tetrahydroquinoline

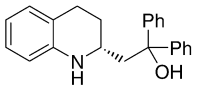
$[\alpha]_D = -43.8$ (*c* 1.34, $CHCl_3$)

Source of chirality: asymmetric hydrogenation

Absolute configuration: (*S*)

Da-Wei Wang, Wei Zeng and Yong-Gui Zhou*

Tetrahedron: Asymmetry *18 (2007) 1103*



$C_{23}H_{23}NO$

(*R*)-1,1-Diphenyl-2-(1,2,3,4-tetrahydroquinolin-2-yl)-ethanol

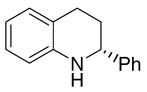
$[\alpha]_D = -82.6$ (*c* 1.18, $CHCl_3$)

Source of chirality: asymmetric hydrogenation

Absolute configuration: (*R*)

Da-Wei Wang, Wei Zeng and Yong-Gui Zhou*

Tetrahedron: Asymmetry *18 (2007) 1103*



$C_{15}H_{15}N$

(*R*)-2-Phenyl-1,2,3,4-tetrahydroquinoline

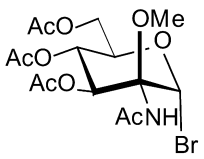
$[\alpha]_D = +7.6$ (*c* 0.88, $CHCl_3$)

Source of chirality: asymmetric hydrogenation

Absolute configuration: (*R*)

Achim Benz, Stefan Immel and Frieder W. Lichtenthaler*

Tetrahedron: Asymmetry *18 (2007) 1108*



$C_{15}H_{22}NO_9Br$

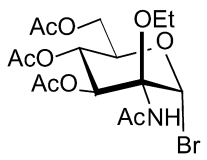
2-*C*-Acetamido-3,4,6-tri-*O*-acetyl-2-*O*-methyl-α-D-mannopyranosyl bromide

$[\alpha]_D^{20} = +141$ (*c* 1.8, $CHCl_3$)

Source of chirality: D-glucose

Achim Benz, Stefan Immel and Frieder W. Lichtenthaler*

Tetrahedron: Asymmetry *18 (2007) 1108*



$[\alpha]_D^{20} = +127$ (*c* 0.9, $CHCl_3$)
Source of chirality: D-glucose

$C_{16}H_{24}NO_9Br$
2-*C*-Acetamido-3,4,6-tri-*O*-acetyl-2-*O*-ethyl-α-D-mannopyranosyl bromide

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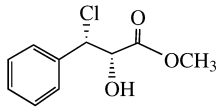
Jianmei Wang, Fernande D. Rochon, Yan Yang, Ling Hua and Margaret M. Kayser*

Tetrahedron: Asymmetry *18 (2007) 1115*

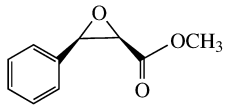


Ee = >99%
$[\alpha]_D^{25} = +46$ (*c* 1.07, CH_2Cl_2)
Source of chirality: enzyme SSCR resolution
Absolute configuration: (2*S*,3*S*)

$C_{10}H_{11}ClO_3$
(2*S*,3*S*)-(+)-Methyl-3-chloro-2-hydroxy-3-phenylpropanoate

Jianmei Wang, Fernande D. Rochon, Yan Yang, Ling Hua and Margaret M. Kayser*

Tetrahedron: Asymmetry *18 (2007) 1115*

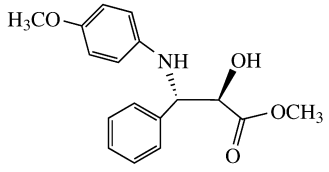


Ee = >99%
$[\alpha]_D^{25} = +10.8$ (*c* 1.03, CH_2Cl_2)
Source of chirality: enantiopure reactant
Absolute configuration: (2*R*,3*R*)

$C_{10}H_{10}O_3$
(2*R*,3*R*)-(+)-Methyl 3-phenylglycidate

Jianmei Wang, Fernande D. Rochon, Yan Yang, Ling Hua and Margaret M. Kayser*

Tetrahedron: Asymmetry *18 (2007) 1115*

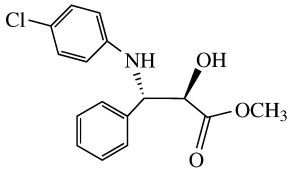


Ee = >99%
$[\alpha]_D^{25} = +10.3$ (*c* 0.99, CH_2Cl_2)
Source of chirality: enantiopure reactant
Absolute configuration: (2*R*,3*S*)

$C_{17}O_4NH_{19}$
(2*R*,3*S*)-(+)-Methyl 3-(4-methoxyphenylamino)-2-hydroxy-3-phenylpropanoate

Jianmei Wang, Fernande D. Rochon, Yan Yang, Ling Hua and Margaret M. Kayser*

Tetrahedron: Asymmetry *18 (2007) 1115*



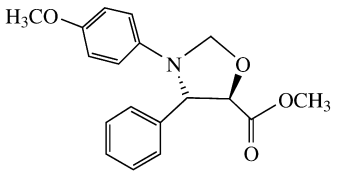
Ee = >99%
$[\alpha]_D^{25} = +7.86$ (*c* 1.36, CH_2Cl_2)
Source of chirality: enantiopure reactant
Absolute configuration: (2*R*,3*S*)

$C_{16}H_{16}ClO_3N$

(2*R*,3*S*)-(+)-Methyl 3-(4-chlorophenylamino)-2-hydroxy-3-phenylpropanoate

Jianmei Wang, Fernande D. Rochon, Yan Yang, Ling Hua and Margaret M. Kayser*

Tetrahedron: Asymmetry *18 (2007) 1115*



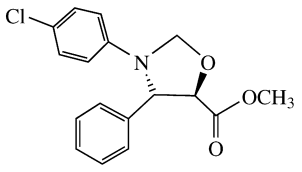
Ee = >99%
$[\alpha]_D^{25} = +48.7$ (*c* 1.02, CH_2Cl_2)
Source of chirality: enantiopure reactant
Absolute configuration: (4*S*,5*R*)

$C_{18}O_4NH_{19}$

(4*S*,5*R*)-(+)-Methyl 3-(4-methoxyphenyl)-4-phenyl-1,3-oxazolidine-5-carboxylate

Jianmei Wang, Fernande D. Rochon, Yan Yang, Ling Hua and Margaret M. Kayser*

Tetrahedron: Asymmetry *18 (2007) 1115*



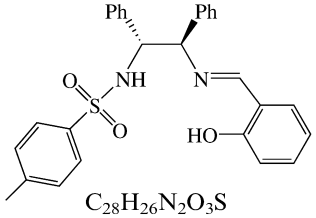
Ee = >99%
$[\alpha]_D^{25} = +36.1$ (*c* 0.55, CH_2Cl_2)
Source of chirality: enantiopure reactant
Absolute configuration: (4*S*,5*R*)

$C_{17}O_3NClH_{16}$

(4*S*,5*R*)-(+)-Methyl 3-(4-chlorophenyl)-4-phenyl-1,3-oxazolidine-5-carboxylate

Bao Liu, Juntao Liu, Xian Jia, Ling Huang, Xingshu Li* and Albert S. C. Chan*

Tetrahedron: Asymmetry *18 (2007) 1124*



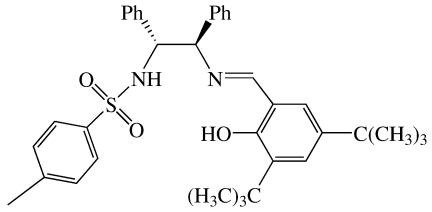
$[\alpha]_D^{25} = +12.1$ (*c* 3.0, CH_2Cl_2)
Source of chirality: (*R*,*R*)-1,2-diphenylethane-1,2-diamine
Absolute configuration: (*R*,*R*)

$C_{28}H_{26}N_2O_3S$

N-((1*R*,2*R*)-2-((*E*)-2-Hydroxybenzylideneamino)-1,2-diphenylethyl)-4-methylbenzenesulfonamide

Bao Liu, Juntao Liu, Xian Jia, Ling Huang, Xingshu Li* and Albert S. C. Chan*

Tetrahedron: Asymmetry *18 (2007) 1124*



$C_{36}H_{42}N_2O_3S$

$[\alpha]_D^{25} = +17.9$ (c 3.0, CH_2Cl_2)

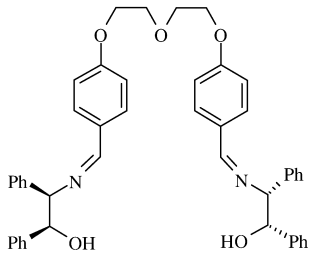
Source of chirality: (*R*,*R*)-1,2-Diphenylethane-1,2-diamine

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

N-((1*R*,2*R*)-2-((*E*)-3,5-Di-*tert*-butyl-2-hydroxybenzylideneamino)-1,2-diphenylethyl)-4-methylbenzenesulfonamide

Mehmet Çolak, Tarık Aral, Halil Hoşgören and Nadir Demirel*

Tetrahedron: Asymmetry *18 (2007) 1129*



$C_{46}H_{44}N_2O_5$

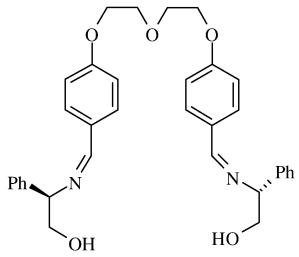
$[\alpha]_D^{20} = +12.2$ (c 2, CH_2Cl_2)

Source of chirality: (1*S*,2*R*)-2-amino-1,2-diphenylethanol

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

Mehmet Çolak, Tarık Aral, Halil Hoşgören and Nadir Demirel*

Tetrahedron: Asymmetry *18 (2007) 1129*



$C_{34}H_{36}N_2O_5$

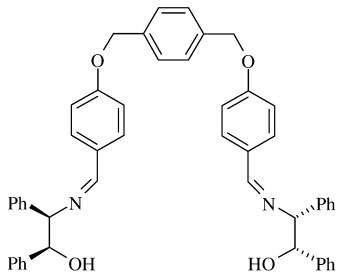
$[\alpha]_D^{20} = +103.2$ (c 2, CH_2Cl_2)

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

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

Mehmet Çolak, Tarık Aral, Halil Hoşgören and Nadir Demirel*

Tetrahedron: Asymmetry *18 (2007) 1129*



$C_{50}H_{44}N_2O_4$

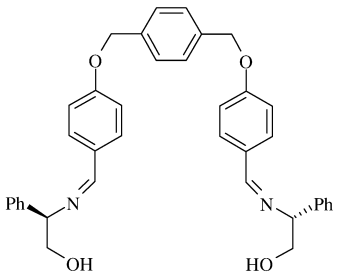
$[\alpha]_D^{20} = +50$ (c 2, CH_2Cl_2)

Source of chirality: (1*S*,2*R*)-2-amino-1,2-diphenylethanol

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

Mehmet Çolak, Tarık Aral, Halil Hoşgören and Nadir Demirel*

Tetrahedron: Asymmetry *18 (2007) 1129*

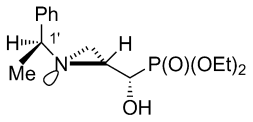


$C_{38}H_{36}N_2O_4$

$[\alpha]_D^{20} = +102.9$ (c 2, CH_2Cl_2)
Source of chirality: (*R*)-(−)-phenylglycinol
Absolute configuration: (*R*,*R*)

Andrzej E. Wróblewski* and Joanna Drozd

Tetrahedron: Asymmetry *18 (2007) 1134*

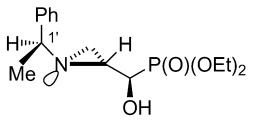


$C_{15}H_{24}NO_4P$
Diethyl (*S*)-hydroxy{(*R*)-1-[(*S*)-1-phenylethyl]aziridin-2-yl}methylphosphonate

Ee = 100%
$[\alpha]_D^{20} = -15.2$ (c 1.46, $CHCl_3$)
Source of chirality: (*S*)-1-phenylethylamine
Absolute configuration: (1*S*,2*R*,1′*S*)

Andrzej E. Wróblewski* and Joanna Drozd

Tetrahedron: Asymmetry *18 (2007) 1134*

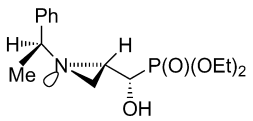


$C_{15}H_{24}NO_4P$
Diethyl (*R*)-hydroxy{(*R*)-1-[(*S*)-1-phenylethyl]aziridin-2-yl}methylphosphonate

Ee = 100%
$[\alpha]_D^{20} = -42.7$ (c 1.27, $CHCl_3$)
Source of chirality: (*S*)-1-phenylethylamine
Absolute configuration: (1*R*,2*R*,1′*S*)

Andrzej E. Wróblewski* and Joanna Drozd

Tetrahedron: Asymmetry *18 (2007) 1134*

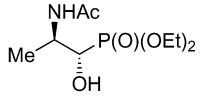


$C_{15}H_{24}NO_4P$
Diethyl (*S*)-hydroxy{(*S*)-1-[(*S*)-1-phenylethyl]aziridin-2-yl}methylphosphonate

Ee = 100%
$[\alpha]_D^{20} = -54.7$ (c 1.06, $CHCl_3$)
Source of chirality: (*S*)-1-phenylethylamine
Absolute configuration: (1*S*,2*S*,1′*S*)

Andrzej E. Wróblewski* and Joanna Drozd

Tetrahedron: Asymmetry *18 (2007) 1134*



$C_9H_{20}NO_5P$

Diethyl (1*S*,2*R*)-2-acetamido-1-hydroxypropylphosphonate

Ee = 100%

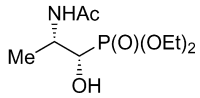
$[\alpha]_D^{20} = +37.8$ (*c* 1.04, $CHCl_3$)

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

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

Andrzej E. Wróblewski* and Joanna Drozd

Tetrahedron: Asymmetry *18 (2007) 1134*



$C_9H_{20}NO_5P$

Diethyl (1*S*,2*S*)-2-acetamido-1-hydroxypropylphosphonate

Ee = 100%

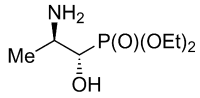
$[\alpha]_D^{20} = -19.4$ (*c* 0.69, $CHCl_3$)

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

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

Andrzej E. Wróblewski* and Joanna Drozd

Tetrahedron: Asymmetry *18 (2007) 1134*



$C_7H_{18}NO_4P$

Diethyl (1*S*,2*R*)-2-amino-1-hydroxypropylphosphonate

Ee = 100%

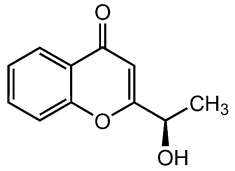
$[\alpha]_D^{20} = +5.9$ (*c* 1.08, CH_3OH)

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

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

Philippe Bisel, Lydia Walter, Martin Nieger, Werner Hummel and Michael Müller*

Tetrahedron: Asymmetry *18 (2007) 1142*



$C_{11}H_{10}O_3$

2-[(*R*)-1-Hydroxyethyl]chromen-4-one

Ee = 90%

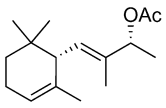
$[\alpha]_D^{22} = +57.55$ (*c* 0.9, $CHCl_3$)

Source of chirality: asymmetric enzyme-catalysed reduction

Absolute configuration: (*R*)

Agnese Abate, Elisabetta Brenna,* Claudio Fuganti, Luciana Malpezzi and Stefano Serra

Tetrahedron: Asymmetry *18 (2007) 1145*

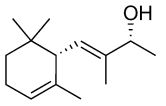


Ee = 98%
$[\alpha]_D^{24} = -203.1$ (*c* 1.05, $CHCl_3$)
Source of chirality: lipase-mediated transesterification
Absolute configuration: (2*R*,1′*S*)

$C_{16}H_{26}O_2$
(*R*,*E*)-3-Methyl-4-((*S*)-2,6,6-trimethyl cyclohex-2-enyl)but-3-en-2-yl acetate

Agnese Abate, Elisabetta Brenna,* Claudio Fuganti, Luciana Malpezzi and Stefano Serra

Tetrahedron: Asymmetry *18 (2007) 1145*

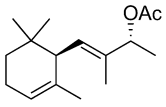


Ee = 98%
$[\alpha]_D^{24} = -321.5$ (*c* 1.08, $CHCl_3$)
Source of chirality: lipase-mediated transesterification
Absolute configuration: (2*R*,1′*S*)

$C_{14}H_{24}O$
(*R*,*E*)-3-Methyl-4-((*S*)-2,6,6-trimethyl cyclohex-2-enyl)but-3-en-2-ol

Agnese Abate, Elisabetta Brenna,* Claudio Fuganti, Luciana Malpezzi and Stefano Serra

Tetrahedron: Asymmetry *18 (2007) 1145*

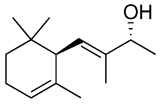


Ee = 94%
$[\alpha]_D^{24} = +278.8$ (*c* 1.10, $CHCl_3$)
Source of chirality: lipase-mediated transesterification
Absolute configuration: (2*R*,1′*R*)

$C_{16}H_{26}O_2$
(*R*,*E*)-3-Methyl-4-((*R*)-2,6,6-trimethyl cyclohex-2-enyl)but-3-en-2-yl acetate

Agnese Abate, Elisabetta Brenna,* Claudio Fuganti, Luciana Malpezzi and Stefano Serra

Tetrahedron: Asymmetry *18 (2007) 1145*

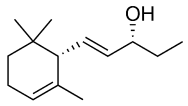


Ee = 94%
$[\alpha]_D^{24} = +308.3$ (*c* 0.95, $CHCl_3$)
Source of chirality: lipase-mediated transesterification
Absolute configuration: (2*R*,1′*R*)

$C_{14}H_{24}O$
(*R*,*E*)-3-Methyl-4-((*R*)-2,6,6-trimethyl cyclohex-2-enyl)but-3-en-2-ol

Agnese Abate, Elisabetta Brenna,* Claudio Fuganti, Luciana Malpezzi and Stefano Serra

Tetrahedron: Asymmetry *18 (2007) 1145*

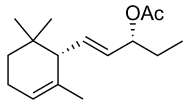


Ee = 98%
$[\alpha]_D^{24} = -289.3$ (*c* 1.21, $CHCl_3$)
Source of chirality: lipase-mediated transesterification
Absolute configuration: (2*R*,1′*S*)

$C_{14}H_{24}O$
(*R*,*E*)-1-((*S*)-2,6,6-Trimethyl cyclohex-2-enyl)pent-1-en-3-ol

Agnese Abate, Elisabetta Brenna,* Claudio Fuganti, Luciana Malpezzi and Stefano Serra

Tetrahedron: Asymmetry *18 (2007) 1145*

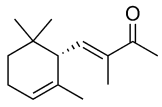


Ee = 98%
$[\alpha]_D^{24} = -178.5$ (*c* 1.14, $CHCl_3$)
Source of chirality: lipase-mediated transesterification
Absolute configuration: (2*R*,1′*S*)

$C_{16}H_{26}O_2$
(*R*,*E*)-1-((*S*)-2,6,6-Trimethyl cyclohex-2-enyl)pent-1-en-3-ol

Agnese Abate, Elisabetta Brenna,* Claudio Fuganti, Luciana Malpezzi and Stefano Serra

Tetrahedron: Asymmetry *18 (2007) 1145*

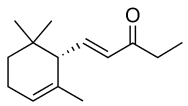


Ee = 98%
$[\alpha]_D^{24} = -450$ (*c* 1.31, $CHCl_3$)
Source of chirality: lipase-mediated transesterification
Absolute configuration: (2*S*)

$C_{14}H_{22}O$
(*S*,*E*)-3-Methyl-4-(2,6,6-trimethyl cyclohex-2-enyl)but-3-en-2-one

Agnese Abate, Elisabetta Brenna,* Claudio Fuganti, Luciana Malpezzi and Stefano Serra

Tetrahedron: Asymmetry *18 (2007) 1145*

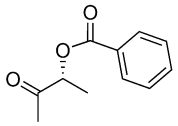


Ee = 98%
$[\alpha]_D^{24} = -397.1$ (*c* 1.20, $CHCl_3$)
Source of chirality: lipase-mediated transesterification
Absolute configuration: (2*S*)

$C_{14}H_{22}O$
(*S*,*E*)-1-(2,6,6-Trimethyl cyclohex-2-enyl)pent-1-en-3-one

Agnese Abate, Elisabetta Brenna,* Claudio Fuganti, Luciana Malpezzi and Stefano Serra

Tetrahedron: Asymmetry *18 (2007) 1145*

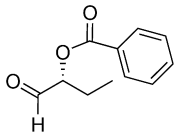


$C_{11}H_{12}O_3$
(*R*)-3-Oxobutan-2-yl benzoate

Ee = 93%
$[\alpha]_D^{24} = -33.1$ (*c* 1.16, $CHCl_3$)
Source of chirality: lipase-mediated transesterification
Absolute configuration: (2*R*)

Agnese Abate, Elisabetta Brenna,* Claudio Fuganti, Luciana Malpezzi and Stefano Serra

Tetrahedron: Asymmetry *18 (2007) 1145*



$C_{11}H_{12}O_3$
(*R*)-1-Oxobutan-2-yl benzoate

Ee = 95%
$[\alpha]_D^{24} = +41.0$ (*c* 1.0, $CHCl_3$)
Source of chirality: lipase-mediated transesterification
Absolute configuration: (2*R*)