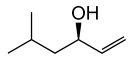
Anna Chojnacka,* Robert Obara and Czesław Wawrzeńczyk

Tetrahedron: Asymmetry *18 (2007) 101*

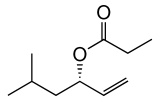


$C_7H_{14}O$
(*R*)-5-Methylhex-1-en-3-ol

Ee = 91%
$[\alpha]_{589}^{23} = +12.0$ (*c* 1.9, $CHCl_3$)
Source of chirality: enzyme-mediated kinetic resolution
Configuration predicted: (*R*)

Anna Chojnacka,* Robert Obara and Czesław Wawrzeńczyk

Tetrahedron: Asymmetry *18 (2007) 101*

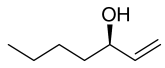


$C_{10}H_{18}O_2$
(*S*)-3-Methyl-1-vinyl-butyl propionate

Ee = 100%
$[\alpha]_{589}^{23} = -6.9$ (*c* 2.5, $CHCl_3$)
Source of chirality: enzyme-mediated kinetic resolution
Configuration predicted: (*S*)

Anna Chojnacka,* Robert Obara and Czesław Wawrzeńczyk

Tetrahedron: Asymmetry *18 (2007) 101*

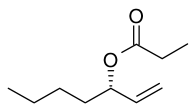


$C_7H_{14}O$
(*R*)-Hept-1-en-3-ol

Ee = 96%
$[\alpha]_{589}^{23} = -8.1$ (*c* 1.1, $CHCl_3$)
Source of chirality: enzyme-mediated kinetic resolution
Absolute configuration: (*R*)

Anna Chojnacka,* Robert Obara and Czesław Wawrzeńczyk

Tetrahedron: Asymmetry *18 (2007) 101*

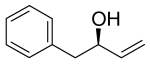


$C_{10}H_{18}O_2$
(*S*)-1-Vinyl-pentyl propionate

Ee = 100%
$[\alpha]_{589}^{23} = 6.5$ (*c* 1.9, $CHCl_3$)
Source of chirality: enzyme-mediated kinetic resolution
Absolute configuration: (*S*)

Anna Chojnacka,* Robert Obara and Czesław Wawrzeńczyk

Tetrahedron: Asymmetry *18 (2007) 101*

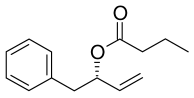


$C_{10}H_{12}O$
(*R*)-1-Phenylbut-3-en-2-ol

Ee = 95%
$[\alpha]_{589}^{23} = -12.5$ (*c* 1.0, $CHCl_3$)
Source of chirality: enzyme-mediated kinetic resolution
Absolute configuration: (*R*)

Anna Chojnacka,* Robert Obara and Czesław Wawrzeńczyk

Tetrahedron: Asymmetry *18 (2007) 101*

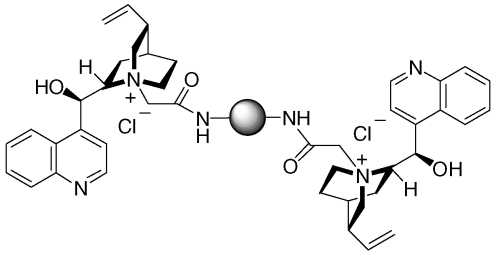


$C_{10}H_{16}O_2$
(*S*)-1-Benzyl-allyl butanoate

Ee = 100%
$[\alpha]_{589}^{23} = -5.9$ (*c* 1.0, $CHCl_3$)
Source of chirality: enzyme-mediated kinetic resolution
Absolute configuration: (*S*)

Xin Wang, Liang Yin, Ting Yang and Yongmei Wang*

Tetrahedron: Asymmetry *18 (2007) 108*

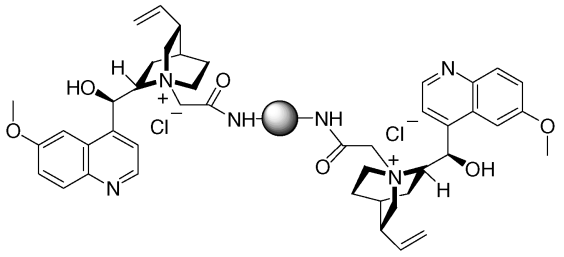


Diacetamido-PEG_{2000} N-bound cinchonidinium chloride

$[\alpha]_{D}^{20} = -15.6$ (*c* 0.4, CH_2Cl_2)

Xin Wang, Liang Yin, Ting Yang and Yongmei Wang*

Tetrahedron: Asymmetry *18 (2007) 108*

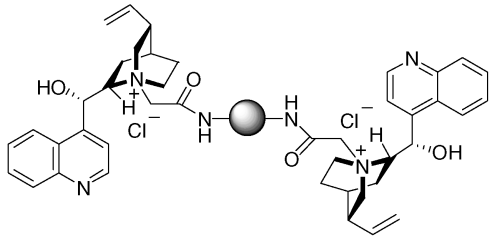


Diacetamido-PEG_{2000} N-bound quininium chloride

$[\alpha]_{D}^{20} = -20.2$ (*c* 0.4, CH_2Cl_2)

Xin Wang, Liang Yin, Ting Yang and Yongmei Wang*

Tetrahedron: Asymmetry *18 (2007) 108*

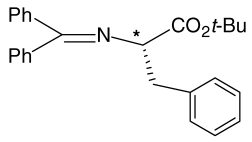


$[\alpha]_D^{20} = +45.3$ (c 0.4, CH_2Cl_2)

Diacetamido-PEG_{2000} N-bound cinchonium chloride

Xin Wang, Liang Yin, Ting Yang and Yongmei Wang*

Tetrahedron: Asymmetry *18 (2007) 108*



Ee = 83%
$[\alpha]_D^{20} = -12.6$ (c 0.2, $CHCl_3$)
Source of chirality: asymmetric synthesis
Absolute configuration: *S*

$C_{26}H_{27}NO_2$
(*S*)-*tert*-Butyl-3-phenyl-2-diphenylmethylene amino propanoate

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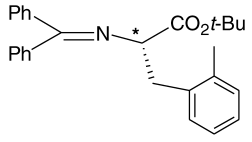
Xin Wang, Liang Yin, Ting Yang and Yongmei Wang*

Tetrahedron: Asymmetry *18 (2007) 108*



Ee = 82%
$[\alpha]_D^{20} = -14.1$ (c 0.2, $CHCl_3$)
Source of chirality: asymmetric synthesis
Absolute configuration: *S*

$C_{27}H_{29}NO_2$
(*S*)-*tert*-Butyl-3-(2-methylphenyl)-2-diphenylmethylene amino propanoate

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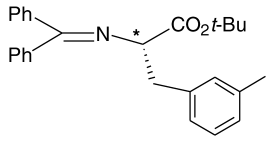
Xin Wang, Liang Yin, Ting Yang and Yongmei Wang*

Tetrahedron: Asymmetry *18 (2007) 108*

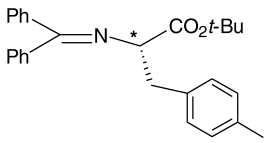


Ee = 90%
$[\alpha]_D^{20} = -13.7$ (c 0.2, $CHCl_3$)
Source of chirality: asymmetric synthesis
Absolute configuration: *S*

$C_{27}H_{29}NO_2$
(*S*)-*tert*-Butyl-3-(3-methylphenyl)-2-diphenylmethylene amino propanoate

Xin Wang, Liang Yin, Ting Yang and Yongmei Wang*

Tetrahedron: Asymmetry *18 (2007) 108*

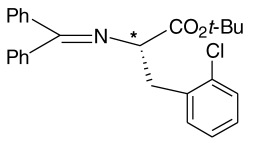


Ee = 85%
$[\alpha]_D^{20} = -15.7$ (*c* 0.2, $CHCl_3$)
Source of chirality: asymmetric synthesis
Absolute configuration: *S*

$C_{27}H_{29}NO_2$
(*S*)-*tert*-Butyl-3-(4-methylphenyl)-2-diphenylmethylene amino propanoate

Xin Wang, Liang Yin, Ting Yang and Yongmei Wang*

Tetrahedron: Asymmetry *18 (2007) 108*

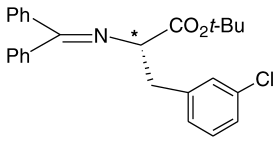


Ee = 97%
$[\alpha]_D^{20} = -16.3$ (*c* 0.2, $CHCl_3$)
Source of chirality: asymmetric synthesis
Absolute configuration: *S*

$C_{26}H_{26}ClNO_2$
(*S*)-*tert*-Butyl-3-(2-chlorophenyl)-2-diphenylmethylene amino propanoate

Xin Wang, Liang Yin, Ting Yang and Yongmei Wang*

Tetrahedron: Asymmetry *18 (2007) 108*

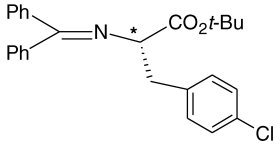


Ee = 92%
$[\alpha]_D^{20} = -16.6$ (*c* 0.2, $CHCl_3$)
Source of chirality: asymmetric synthesis
Absolute configuration: *S*

$C_{26}H_{26}ClNO_2$
(*S*)-*tert*-Butyl-3-(3-chlorophenyl)-2-diphenylmethylene amino propanoate

Xin Wang, Liang Yin, Ting Yang and Yongmei Wang*

Tetrahedron: Asymmetry *18 (2007) 108*

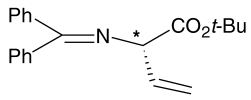


Ee = 91%
$[\alpha]_D^{20} = -15.8$ (*c* 0.2, $CHCl_3$)
Source of chirality: asymmetric synthesis
Absolute configuration: *S*

$C_{26}H_{26}ClNO_2$
(*S*)-*tert*-Butyl-3-(4-chlorophenyl)-2-diphenylmethylene amino propanoate

Xin Wang, Liang Yin, Ting Yang and Yongmei Wang*

Tetrahedron: Asymmetry *18 (2007) 108*



Ee = 86%
$[\alpha]_D^{20} = -11.4$ (*c* 0.2, $CHCl_3$)
Source of chirality: asymmetric synthesis
Absolute configuration: *S*

$C_{21}H_{23}NO_2$
(*S*)-*tert*-Butyl-3-(2-allyl)-2-diphenylmethylene amino propanoate

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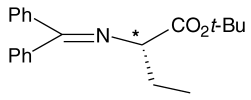
Xin Wang, Liang Yin, Ting Yang and Yongmei Wang*

Tetrahedron: Asymmetry *18 (2007) 108*



Ee = 90%
$[\alpha]_D^{20} = -12.2$ (*c* 0.2, $CHCl_3$)
Source of chirality: asymmetric synthesis
Absolute configuration: *S*

$C_{21}H_{25}NO_2$
(*S*)-*tert*-Butyl-3-ethyl-2-diphenylmethylene amino propanoate

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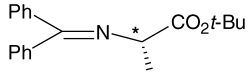
Xin Wang, Liang Yin, Ting Yang and Yongmei Wang*

Tetrahedron: Asymmetry *18 (2007) 108*



Ee = 83%
$[\alpha]_D^{20} = -10.8$ (*c* 0.2, $CHCl_3$)
Source of chirality: asymmetric synthesis
Absolute configuration: *S*

$C_{20}H_{23}NO_2$
(*S*)-*tert*-Butyl-3-methyl-2-diphenylmethylene amino propanoate

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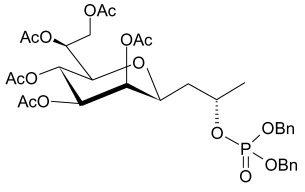
Andrea Graziani, Hassan Amer, Alla Zamyatina, Andreas Hofinger and Paul Kosma*

Tetrahedron: Asymmetry *18 (2007)115*

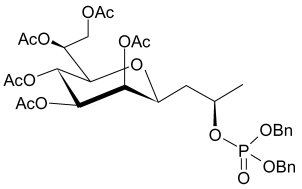


$[\alpha]_D^{20} = -31$ (*c* 0.8, $CHCl_3$)

$C_{34}H_{43}O_{15}P$
5,6,7,9,10-Penta-*O*-acetyl-4,8-anhydro-2-*O*-[bis(benzyloxy)]phosphoryl]-1,3-dideoxy-L-*lyxo*-L-*manno*-decitol

Andrea Graziani, Hassan Amer, Alla Zamyatina, Andreas Hofinger and Paul Kosma*

Tetrahedron: Asymmetry *18 (2007)115*



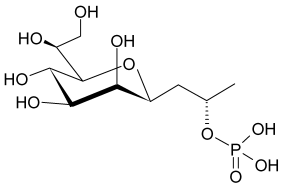
$[\alpha]_D^{20} = -49$ (*c* 0.7, $CHCl_3$)

$C_{34}H_{43}O_{15}P$

5,6,7,9,10-Penta-*O*-acetyl-4,8-anhydro-2-*O*-[bis(benzyloxy)]phosphoryl]-1,3-dideoxy-L-*lyxo*-L-*gluco*-decitol

Andrea Graziani, Hassan Amer, Alla Zamyatina, Andreas Hofinger and Paul Kosma*

Tetrahedron: Asymmetry *18 (2007)115*



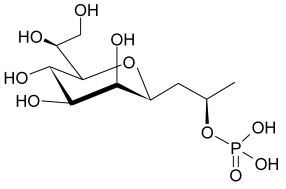
$[\alpha]_D^{20} = -29$ (*c* 0.7, H_2O)

$C_{10}H_{21}O_{10}P$

4,8-Anhydro-1,3-dideoxy-L-*lyxo*-L-*manno*-decit-2-yl phosphate (ammonium salt)

Andrea Graziani, Hassan Amer, Alla Zamyatina, Andreas Hofinger and Paul Kosma*

Tetrahedron: Asymmetry *18 (2007)115*



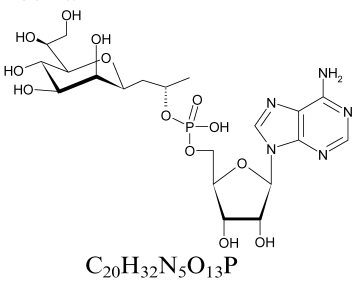
$[\alpha]_D^{20} = -50$ (*c* 0.7, H_2O)

$C_{10}H_{21}O_{10}P$

4,8-Anhydro-1,3-dideoxy-L-*lyxo*-L-*gluco*-decit-2-yl phosphate (ammonium salt)

Andrea Graziani, Hassan Amer, Alla Zamyatina, Andreas Hofinger and Paul Kosma*

Tetrahedron: Asymmetry *18 (2007)115*



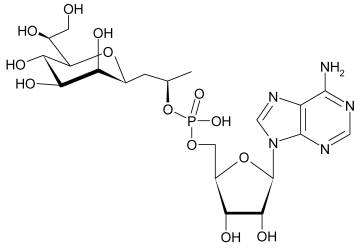
$[\alpha]_D^{20} = -34$ (*c* 0.8, H_2O)

$C_{20}H_{32}N_5O_{13}P$

Adenosine 5′-(4,8-anhydro-1,3-dideoxy-L-*lyxo*-L-*manno*-decit-2-yl)phosphate (triethylammonium salt)

Andrea Graziani, Hassan Amer, Alla Zamyatina, Andreas Hofinger and Paul Kosma*

Tetrahedron: Asymmetry *18 (2007)115*



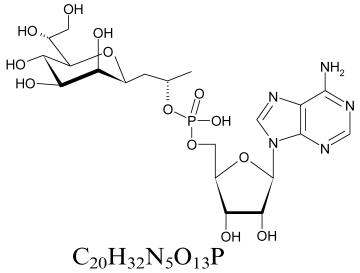
$[\alpha]_D^{20} = -45$ (c 0.8, H_2O)

$C_{20}H_{32}N_5O_{13}P$

Adenosine 5′-(4,8-anhydro-1,3-dideoxy-L-*lyxo*-L-*gluco*-decit-2-yl)phosphate (triethylammonium salt)

Andrea Graziani, Hassan Amer, Alla Zamyatina, Andreas Hofinger and Paul Kosma*

Tetrahedron: Asymmetry *18 (2007)115*



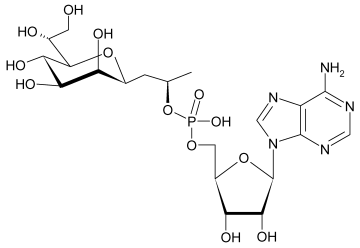
$[\alpha]_D^{20} = -19.8$ (c 0.8, H_2O)

$C_{20}H_{32}N_5O_{13}P$

Adenosine 5′-(4,8-anhydro-1,3-dideoxy-D-*ribo*-L-*manno*-decit-2-yl)phosphate (triethylammonium salt)

Andrea Graziani, Hassan Amer, Alla Zamyatina, Andreas Hofinger and Paul Kosma*

Tetrahedron: Asymmetry *18 (2007)115*



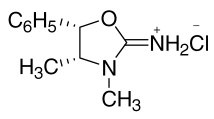
$[\alpha]_D^{20} = -31$ (c 0.8, H_2O)

$C_{20}H_{32}N_5O_{13}P$

Adenosine 5′-(4,8-anhydro-1,3-dideoxy-D-*ribo*-L-*gluco*-decit-2-yl)phosphate (triethylammonium salt)

Alejandro Cruz,* Itzia Irene Padilla-Martínez, Efrén V. García-Báez and Rosalinda Contreras

Tetrahedron: Asymmetry *18 (2007)123*



$[\alpha]_D^{24} = -15.0$ (c 2.0×10^{-4} g/mL, methanol)

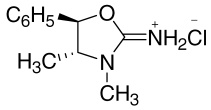
Source of chirality: (1*S*,2*R*)-(+)-ephedrine

$C_{11}H_{15}N_2OCl$

(1*S*,2*R*)-(−)-*cis*-3,4-Dimethyl-5-phenyl-oxazolidine-2-iminium chloride

Alejandro Cruz,* Itzia Irene Padilla-Martínez, Efrén V. García-Báez and Rosalinda Contreras

Tetrahedron: Asymmetry *18 (2007)123*

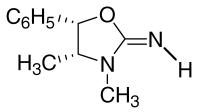


$[\alpha]_D^{24} = -15.0$ (c 2.0×10^{-4} g/mL, methanol)
Source of chirality: (1*S*,2*R*)-(+)-ephedrine

$C_{11}H_{15}N_2OCl$
(1*R*,2*R*)-(−)-*trans*-3,4-Dimethyl-5-phenyl-oxazolidine-2-iminium chloride

Alejandro Cruz,* Itzia Irene Padilla-Martínez, Efrén V. García-Báez and Rosalinda Contreras

Tetrahedron: Asymmetry *18 (2007)123*

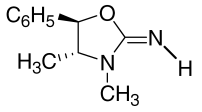


$[\alpha]_D^{24} = -120.0$ (c 2.0×10^{-4} g/mL, chloroform)
Source of chirality: (1*S*,2*R*)-(−)-ephedrine

$C_{11}H_{14}N_2O$
(1*S*,2*R*)-(−)-*cis*-3,4-Dimethyl-5-phenyl-oxazolidine-2-imine

Alejandro Cruz,* Itzia Irene Padilla-Martínez, Efrén V. García-Báez and Rosalinda Contreras

Tetrahedron: Asymmetry *18 (2007)123*

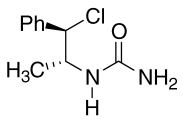


$[\alpha]_D^{24} = -5.0$ (c 2.04×10^{-4} g/mL, chloroform)
Source of chirality: (1*S*,2*R*)-(−)-ephedrine

$C_{11}H_{14}N_2O$
(1*R*,2*R*)-(−)-*trans*-3,4-Dimethyl-5-phenyl-oxazolidine-2-imine

Alejandro Cruz,* Itzia Irene Padilla-Martínez, Efrén V. García-Báez and Rosalinda Contreras

Tetrahedron: Asymmetry *18 (2007)123*

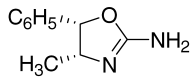


$[\alpha]_D^{24} = -45.0$ (c 2.02×10^{-4} g/mL, methanol)
Source of chirality: (1*S*,2*R*)-(+)-norephedrine

$C_{10}H_{13}N_2OCl$
(1*R*,2*R*)-(−)-(2-Chloro-1-methyl-2-phenyl-ethyl)-urea

Alejandro Cruz,* Itzia Irene Padilla-Martínez, Efrén V. García-Báez and Rosalinda Contreras

Tetrahedron: Asymmetry *18 (2007)123*

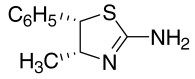


$[\alpha]_D^{24} = -200.0$ (c 2.0×10^{-4} g/mL, chloroform)
Source of chirality: (1*S*,2*R*)-(+)-norephedrine

$C_{10}H_{12}N_2O$
(1*S*,2*R*)-(−)-*cis*-4-Methyl-5-phenyl-oxazoline-2-amine

Alejandro Cruz,* Itzia Irene Padilla-Martínez, Efrén V. García-Báez and Rosalinda Contreras

Tetrahedron: Asymmetry *18 (2007)123*

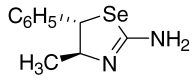


$[\alpha]_D^{24} = -75.0$ (c 2.04×10^{-4} g/mL, chloroform)
Source of chirality: (1*S*,2*R*)-(+)-norephedrine

$C_{10}H_{12}N_2S$
(1*S*,2*R*)-(−)-*cis*-4-Methyl-5-phenyl-thiazoline-2-amine

Alejandro Cruz,* Itzia Irene Padilla-Martínez, Efrén V. García-Báez and Rosalinda Contreras

Tetrahedron: Asymmetry *18 (2007)123*

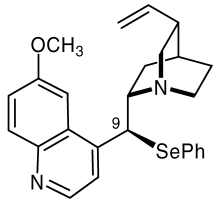


$[\alpha]_D^{24} = -120.0$ (c 2.0×10^{-4} g/mL, chloroform)
Source of chirality: (1*R*,2*S*)-(−)-norephedrine

$C_{10}H_{12}N_2Se$
(1*S*,2*S*)-(−)-*trans*-4-Methyl-5-phenyl-selenazoline-2-amine

Mariola Zielińska-Błajet, Renata Siedlecka and Jacek Skarżewski*

Tetrahedron: Asymmetry *18 (2007) 131*

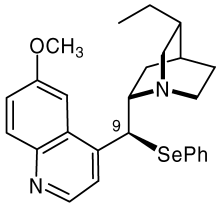


$[\alpha]_D = -46.7$ (c 1.20, CH_2Cl_2)
Ee >95%
Source of chirality: S_N2 substitution on natural quinine

$C_{26}H_{28}N_2OSe$
(1*S*,3*R*,4*S*,8*S*,9*S*)-6′-Methoxy-9-phenylselenylcinchonine

Mariola Zielińska-Błajet, Renata Siedlecka and Jacek Skarżewski*

Tetrahedron: Asymmetry *18 (2007) 131*



$C_{26}H_{30}N_2OSe$

(1*S*,3*R*,4*S*,8*S*,9*S*)-10,11-Dihydro-6′-methoxy-9-phenylselenylcinchonine

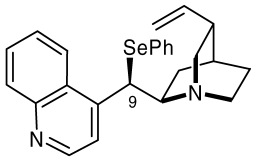
$[\alpha]_D = -73.3$ (*c* 1.80, CH_2Cl_2)

Ee >95%

Source of chirality: S_N2 substitution on natural dihydroquinine

Mariola Zielińska-Błajet, Renata Siedlecka and Jacek Skarżewski*

Tetrahedron: Asymmetry *18 (2007) 131*



$C_{25}H_{26}N_2Se$

(1*S*,3*R*,4*S*,8*R*,9*R*)-9-Phenylselenylcinchonine

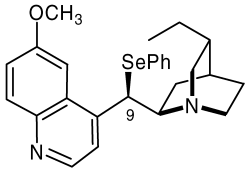
$[\alpha]_D = +69.1$ (*c* 0.98, CH_2Cl_2)

Ee >95%

Source of chirality: S_N2 substitution on natural cinchonine

Mariola Zielińska-Błajet, Renata Siedlecka and Jacek Skarżewski*

Tetrahedron: Asymmetry *18 (2007) 131*



$C_{26}H_{30}N_2OSe$

(1*S*,3*R*,4*S*,8*R*,9*R*)-10,11-Dihydro-6′-methoxy-9-phenylselenylcinchonine

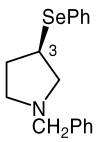
$[\alpha]_D = +160.4$ (*c* 0.96, CH_2Cl_2)

Ee >98%

Source of chirality: S_N2 substitution on natural dihydroquinidine

Mariola Zielińska-Błajet, Renata Siedlecka and Jacek Skarżewski*

Tetrahedron: Asymmetry *18 (2007) 131*



$C_{17}H_{19}NSe$

(*R*)-(+)-1-Benzyl-3-2-phenylselenyl pyrrolidine

$[\alpha]_D = +17.6$ (*c* 0.82, CH_2Cl_2)

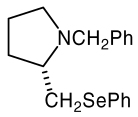
Ee >95%

Source of chirality: S_N2 reaction of (−)-(*S*)-3-hydroxypyrrolidine

Absolute configuration: 3*R* (determined by chemical correlation)

Mariola Zielińska-Błajet, Renata Siedlecka and Jacek Skarżewski*

Tetrahedron: Asymmetry *18 (2007) 131*



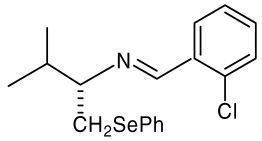
$C_{18}H_{21}NSe$

(−)-(*S*)-1-Benzyl-2-(phenylselenylmethyl)pyrrolidine

$[\alpha]_D = -70.2$ (*c* 0.94, CH_2Cl_2)
Ee >95%
Source of chirality: transformation of (−)-(*S*)-benzyl-2-pyrrolidinemethanol

Mariola Zielińska-Błajet, Renata Siedlecka and Jacek Skarżewski*

Tetrahedron: Asymmetry *18 (2007) 131*



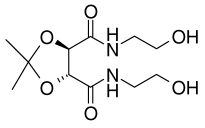
$C_{26}H_{30}N_2OSe$

(*S*)-(+)-(2-Chloro-benzylidene)-(2-methyl-1-phenylselenyl-propyl)-amine

$[\alpha]_D = +119.8$ (*c* 1.06, CH_2Cl_3)
Ee >98%
Source of chirality: transformation of L-valinol

Kristin Lippur, Tõnis Kanger,* Kadri Kriis, Tiiu Kailas, Aleksander-Mati Müürisepp, Tõnis Pehk and Margus Lopp

Tetrahedron: Asymmetry *18 (2007) 137*



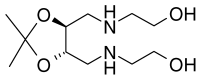
$C_{11}H_{20}N_2O_6$

(4*R*,5*R*)-*N*,*N*′-Bis(2-hydroxyethyl)-2,2-dimethyl-1,3-dioxolane-4,5-dicarboxamide

$[\alpha]_D^{22} = -20.9$ (*c* 2.40, MeOH)
Source of chirality: (*R*,*R*)-dimethyl tartrate
Absolute configuration: (4*R*,5*R*)

Kristin Lippur, Tõnis Kanger,* Kadri Kriis, Tiiu Kailas, Aleksander-Mati Müürisepp, Tõnis Pehk and Margus Lopp

Tetrahedron: Asymmetry *18 (2007) 137*



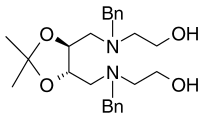
$C_{11}H_{24}N_2O_4$

2,2′-{[(4*S*,5*S*)-2,2-Dimethyl-1,3-dioxolane-4,5-diyl]bis(methyleneimino)}diethanol

$[\alpha]_D^{23} = -28.0$ (*c* 2.63, MeOH)
Source of chirality: (*R*,*R*)-dimethyl tartrate
Absolute configuration: (4*S*,5*S*)

Kristin Lippur, Tõnis Kanger,* Kadri Kriis, Tiiu Kailas, Aleksander-Mati Müürisepp, Tõnis Pehk and Margus Lopp

Tetrahedron: Asymmetry *18 (2007) 137*



$[\alpha]_D^{23} = -8.4$ (*c* 2.37, MeOH)
Source of chirality: (*R*,*R*)-dimethyl tartrate
Absolute configuration: (4*S*,5*S*)

$C_{25}H_{36}N_2O_4$
2,2′-{[(4*S*,5*S*)-2,2-Dimethyl-1,3-dioxolane-4,5-diyl]bis[methylene(benzylimino)]}diethanol

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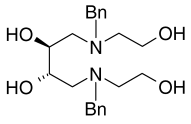
Kristin Lippur, Tõnis Kanger,* Kadri Kriis, Tiiu Kailas, Aleksander-Mati Müürisepp, Tõnis Pehk and Margus Lopp

Tetrahedron: Asymmetry *18 (2007) 137*



$[\alpha]_D^{22} = -25.2$ (*c* 4.87, MeOH)
Source of chirality: (*R*,*R*)-dimethyl tartrate
Absolute configuration: (2*S*,3*S*)

$C_{22}H_{32}N_2O_4$
(2*S*,3*S*)-1,4-Bis[(2-hydroxyethyl)(benzyl)amino]butane-2,3-diol

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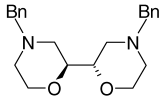
Kristin Lippur, Tõnis Kanger,* Kadri Kriis, Tiiu Kailas, Aleksander-Mati Müürisepp, Tõnis Pehk and Margus Lopp

Tetrahedron: Asymmetry *18 (2007) 137*

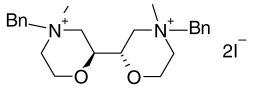


$[\alpha]_D^{23} = +49.4$ (*c* 6.36, MeOH)
Ee 99% (chiral HPLC analysis)
Source of chirality: (*R*,*R*)-dimethyl tartrate
Absolute configuration: (2*S*,2′*S*)

$C_{22}H_{28}N_2O_2$
(2*S*,2′*S*)-4,4′-Dibenzyl-2,2′-bimorpholine

Kristin Lippur, Tõnis Kanger,* Kadri Kriis, Tiiu Kailas, Aleksander-Mati Müürisepp, Tõnis Pehk and Margus Lopp

Tetrahedron: Asymmetry *18 (2007) 137*

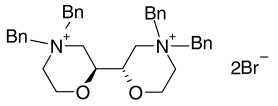


$[\alpha]_D^{22} = +41.2$ (*c* 4.74, MeOH)
Source of chirality: (*R*,*R*)-dimethyl tartrate
Absolute configuration: (2*S*,2′*S*, *N* and *N*′ unknown)

$C_{24}H_{34}N_2O_2I_2$
(2*S*,2′*S*)-4,4′-Dibenzyl-4,4′-dimethyl-2,2′-bimorpholinium diiodide

Kristin Lippur, Tõnis Kanger,* Kadri Kriis, Tiiu Kailas, Aleksander-Mati Müürisepp, Tõnis Pehk and Margus Lopp

Tetrahedron: Asymmetry *18 (2007) 137*



$[\alpha]_D^{22} = -53.7$ (*c* 2.5, MeOH)
Source of chirality: (*R*,*R*)-dimethyl tartrate
Absolute configuration: (2*S*,2′*S*)

$C_{36}H_{42}N_2O_2Br_2$
(2*S*,2′*S*)-4,4,4′,4′-Tetrabenzyl-2,2′-bimorpholinium dibromide

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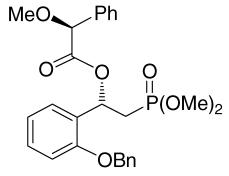
Haydée Rojas-Cabrera, Mario Fernández-Zertuche, Oscar García-Barradas, Omar Muñoz-Muñiz and Mario Ordóñez*

Tetrahedron: Asymmetry *18 (2007) 142*



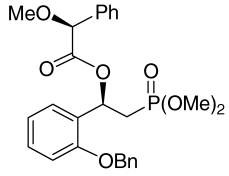
De >98%
$[\alpha]_D = +26.9$ (*c* 1.8, $CHCl_3$)
Source of chirality: chemical resolution
Absolute configuration: (*S*,*S*)

$C_{26}H_{29}O_7P$
Dimethyl (*S*)-2-(2-*O*-benzylphenyl)-2-[(*S*)-*O*-methylmandelate]ethylphosphonate

---

Haydée Rojas-Cabrera, Mario Fernández-Zertuche, Oscar García-Barradas, Omar Muñoz-Muñiz and Mario Ordóñez*

Tetrahedron: Asymmetry *18 (2007) 142*



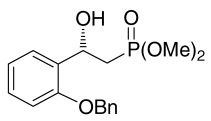
De >98%
$[\alpha]_D = +27.2$ (*c* 1.7, $CHCl_3$)
Source of chirality: chemical resolution
Absolute configuration: (*R*,*S*)

$C_{26}H_{29}O_7P$
Dimethyl (*R*)-2-(2-*O*-benzylphenyl)-2-[(*S*)-*O*-methylmandelate]ethylphosphonate

---

Haydée Rojas-Cabrera, Mario Fernández-Zertuche, Oscar García-Barradas, Omar Muñoz-Muñiz and Mario Ordóñez*

Tetrahedron: Asymmetry *18 (2007) 142*

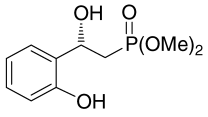


Ee >98%
$[\alpha]_D = +46.8$ (*c* 1.23, $CHCl_3$)
Source of chirality: chemical resolution
Absolute configuration: (*S*)

$C_{17}H_{21}O_5P$
Dimethyl (*S*)-2-(2-*O*-benzylphenyl)-2-hydroxyethylphosphonate

Haydée Rojas-Cabrera, Mario Fernández-Zertuche, Oscar García-Barradas, Omar Muñoz-Muñiz and Mario Ordóñez*

Tetrahedron: Asymmetry *18 (2007) 142*

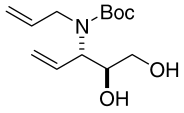


Ee >98%
$[\alpha]_D = -0.3$ (*c* 3.0, $CHCl_3$)
Source of chirality: chemical resolution
Absolute configuration: (*S*)

$C_{17}H_{21}O_5P$
Dimethyl (*S*)-2-(2-hydroxyphenyl)-2-hydroxyethylphosphonate

Caterina Murruzzu and Antoni Riera*

Tetrahedron: Asymmetry *18 (2007) 149*

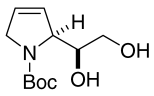


$[\alpha]_D = -22.6$ (*c* 1.0, $CHCl_3$)
Source of chirality: Sharpless asymmetric epoxidation
Absolute configuration: (2*S*,3*S*)

$C_{13}H_{23}NO_4$
(2*S*,3*S*)-3-(*N*-Allyl-*N*-*tert*-butoxycarbonyl)-4-penten-1,2-diol

Caterina Murruzzu and Antoni Riera*

Tetrahedron: Asymmetry *18 (2007) 149*

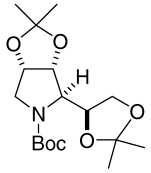


$[\alpha]_D = -108.1$ (*c* 0.97, $CHCl_3$)
Source of chirality: Sharpless asymmetric epoxidation
Absolute configuration: (2*S*,1′*S*)

$C_{11}H_{19}NO_4$
(2*S*)-*N*-*tert*-Butoxycarbonyl-2-[(1′*S*)-1′,2′-dihydroxyethyl]-2,5-dihydropyrrole

Caterina Murruzzu and Antoni Riera*

Tetrahedron: Asymmetry *18 (2007) 149*

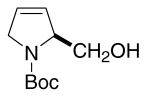


$[\alpha]_D = -58.5$ (*c* 1.0, $CHCl_3$)
Source of chirality: Sharpless asymmetric epoxidation
Absolute configuration: (2*R*,3*R*,4*S*,1'*S*)

$C_{17}H_{29}NO_6$
1,4-Dideoxy-1,4-imino-D-allitol bis-isopropylidene acetal

Caterina Murruzzu and Antoni Riera*

Tetrahedron: Asymmetry *18 (2007) 149*



$[\alpha]_D = -124.6$ (*c* 1.0, $CHCl_3$)
Source of chirality: Sharpless asymmetric epoxidation
Absolute configuration: (2*S*)

$C_{10}H_{17}NO_3$
(2*S*)-*N*-*tert*-Butoxycarbonyl-2-hydroxymethyl-2,5-dihydro-1*H*-pyrrole

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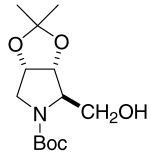
Caterina Murruzzu and Antoni Riera*

Tetrahedron: Asymmetry *18 (2007) 149*



$[\alpha]_D = -30.3$ (*c* 0.3, $CHCl_3$)
Source of chirality: Sharpless asymmetric epoxidation
Absolute configuration: (2*R*,3*R*,4*S*)

$C_{13}H_{23}NO_3$
(2*R*,3*R*,4*S*)-*N*-*tert*-Butoxycarbonyl-2-hydroxymethyl-3,4-isopropylidendioxy-pyrrolidine

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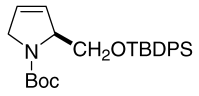
Caterina Murruzzu and Antoni Riera*

Tetrahedron: Asymmetry *18 (2007) 149*



$[\alpha]_D = -24.6$ (*c* 1.0, $CHCl_3$)
Source of chirality: Sharpless asymmetric epoxidation
Absolute configuration: (2*R*)

$C_{26}H_{36}NO_3Si$
(2*R*)-*N*-*tert*-Butoxycarbonyl-2-*tert*-butyldiphenylsilyloxymethyl-2,5-dihydro-1*H*-pyrrole

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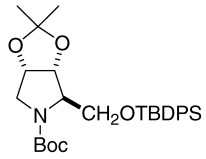
Caterina Murruzzu and Antoni Riera*

Tetrahedron: Asymmetry *18 (2007) 149*



$[\alpha]_D = -36.1$ (*c* 1.05, $CHCl_3$)
Source of chirality: Sharpless asymmetric epoxidation
Absolute configuration: (2*R*,3*R*,4*S*)

$C_{29}H_{41}NO_5Si$
(2*R*,3*R*,4*S*)-*N*-*tert*-Butoxycarbonyl-2-*tert*-butyldiphenylsilyloxymethyl-3,4-dihydroxypyrrolidine isopropyilidene acetal