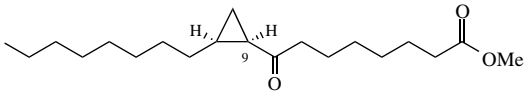
Laura J. Stuart and Peter H. Buist*

Tetrahedron: Asymmetry *15 (2004) 401*



$C_{20}H_{36}O_3$

Methyl (*Z*)-8-(2-octylcyclopropane-1-yl)-8-oxo-octanoate

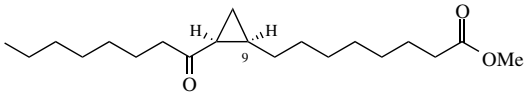
$[\alpha]_D^{21} = -14.8$ (*c* 0.9, Et_2O)

Source of chirality: oxidation of dihydrosterculate

Absolute configuration: (9*R*,10*S*)

Laura J. Stuart and Peter H. Buist*

Tetrahedron: Asymmetry *15 (2004) 401*



$C_{20}H_{36}O_3$

Methyl (*Z*)-8-(2-(1-oxo)-octylcyclopropane-1-yl)-octanoate

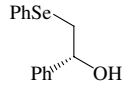
$[\alpha]_D^{21} = +20.7$ (*c* 1.0, Et_2O)

Source of chirality: oxidation of dihydrosterculate

Absolute configuration: (9*R*,10*S*)

Marcello Tiecco,* Lorenzo Testaferri, Luana Bagnoli, Valentina Purgatorio, Andrea Temperini, Francesca Marini and Claudio Santi

Tetrahedron: Asymmetry *15 (2004) 405*



$C_{14}H_{14}OSe$

(1*R*)-1-Phenyl-2-(phenylseleno)ethanol

$[\alpha]_D^{24} = -14.6$ (*c* 1.70, $CHCl_3$)

Source of chirality: (*R*)-Phenyloxirane

Absolute configuration: 1*R*

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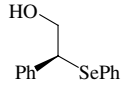
Tetrahedron: Asymmetry *15 (2004) 405*



$C_{14}H_{14}OSe$

(2*S*)-2-Phenyl-2-(phenylseleno)ethanol

$[\alpha]_D^{26} = +130.0$ (*c* 2.20, $CHCl_3$)

Source of chirality: (*R*)-Phenyloxirane

Absolute configuration: 2*S*

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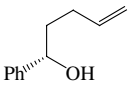
Tetrahedron: Asymmetry *15 (2004) 405*

$[\alpha]_D^{24} = -31.0$ (*c* 3.37, $CHCl_3$)
Source of chirality: (*R*)-Phenyloxirane
Absolute configuration: 1*S*

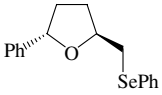


$C_{11}H_{14}O$
(1*S*)-1-Phenylpent-4-en-1-ol

Marcello Tiecco,* Lorenzo Testaferri, Luana Bagnoli, Valentina Purgatorio, Andrea Temperini, Francesca Marini and Claudio Santi

Tetrahedron: Asymmetry *15 (2004) 405*

$[\alpha]_D^{25} = -59.6$ (*c* 0.69, $CHCl_3$)
Source of chirality: (*R*)-Phenyloxirane
Absolute configuration: 2*S*,5*S*

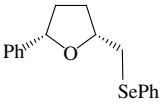


$C_{17}H_{18}OSe$
(2*S*,5*S*)-2-Phenyl-5-[(phenylseleno)methyl]tetrahydrofuran

Marcello Tiecco,* Lorenzo Testaferri, Luana Bagnoli, Valentina Purgatorio, Andrea Temperini, Francesca Marini and Claudio Santi

Tetrahedron: Asymmetry *15 (2004) 405*

$[\alpha]_D^{26} = -26.8$ (*c* 1.51, $CHCl_3$)
Source of chirality: (*R*)-Phenyloxirane
Absolute configuration: 2*S*,5*R*

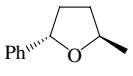


$C_{17}H_{18}OSe$
(2*S*,5*R*)-2-Phenyl-5-[(phenylseleno)methyl]tetrahydrofuran

Marcello Tiecco,* Lorenzo Testaferri, Luana Bagnoli, Valentina Purgatorio, Andrea Temperini, Francesca Marini and Claudio Santi

Tetrahedron: Asymmetry *15 (2004) 405*

$[\alpha]_D^{25} = -57.1$ (*c* 1.87, $CHCl_3$)
Source of chirality: (*R*)-Phenyloxirane
Absolute configuration: 2*R*,5*S*

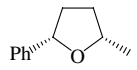


$C_{11}H_{14}O$
(2*R*,5*S*)-2-Methyl-5-phenyltetrahydrofuran

Marcello Tiecco,* Lorenzo Testaferri, Luana Bagnoli, Valentina Purgatorio, Andrea Temperini, Francesca Marini and Claudio Santi

Tetrahedron: Asymmetry *15 (2004) 405*

$[\alpha]_D^{23} = -26.6$ (*c* 0.57, $CHCl_3$)
Source of chirality: (*R*)-Phenyloxirane
Absolute configuration: 2*S*,5*S*

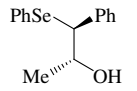


$C_{11}H_{14}O$
(2*S*,5*S*)-2-Methyl-5-phenyltetrahydrofuran

Marcello Tiecco,* Lorenzo Testaferri, Luana Bagnoli, Valentina Purgatorio, Andrea Temperini, Francesca Marini and Claudio Santi

Tetrahedron: Asymmetry *15 (2004) 405*

$[\alpha]_D^{20} = +255.1$ (*c* 1.96, $CHCl_3$)
Source of chirality: (1*R*,2*R*)-1-Phenyl-propylene oxide
Absolute configuration: 1*S*,2*R*

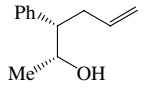


$C_{15}H_{16}OSe$
(1*S*,2*R*)-1-Phenyl-1-(phenylseleno)propan-2-ol

Marcello Tiecco,* Lorenzo Testaferri, Luana Bagnoli, Valentina Purgatorio, Andrea Temperini, Francesca Marini and Claudio Santi

Tetrahedron: Asymmetry *15 (2004) 405*

$[\alpha]_D^{21} = +23.2$ (*c* 2.05, $CHCl_3$)
Source of chirality: (1*R*,2*R*)-1-Phenyl-propylene oxide
Absolute configuration: 2*R*,3*S*

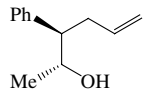


$C_{12}H_{16}O$
(2*R*,3*S*)-3-Phenylhex-5-en-2-ol

Marcello Tiecco,* Lorenzo Testaferri, Luana Bagnoli, Valentina Purgatorio, Andrea Temperini, Francesca Marini and Claudio Santi

Tetrahedron: Asymmetry *15 (2004) 405*

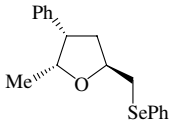
$[\alpha]_D^{21} = -33.8$ (*c* 2.0, $CHCl_3$)
Source of chirality: (1*R*,2*R*)-1-Phenyl-propylene oxide
Absolute configuration: 2*R*,3*R*



$C_{12}H_{16}O$
(2*R*,3*R*)-3-Phenylhex-5-en-2-ol

Marcello Tiecco,* Lorenzo Testaferri, Luana Bagnoli, Valentina Purgatorio, Andrea Temperini, Francesca Marini and Claudio Santi

Tetrahedron: Asymmetry *15 (2004) 405*



$C_{18}H_{20}OSe$

(2*R*,3*S*,5*S*)-2-Methyl-3-phenyl-5-[(phenylseleno)methyl]tetrahydrofuran

$[\alpha]_D^{24} = +16.8$ (*c* 1.61, $CHCl_3$)

Source of chirality: (1*R*,2*R*)-1-Phenyl-propylene oxide

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

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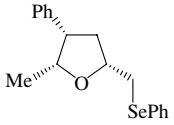
Tetrahedron: Asymmetry *15 (2004) 405*



$C_{18}H_{20}OSe$

(2*R*,3*S*,5*R*)-2-Methyl-3-phenyl-5-[(phenylseleno)methyl]tetrahydrofuran

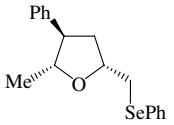
$[\alpha]_D^{25} = +120.0$ (*c* 2.37, $CHCl_3$)

Source of chirality: (1*R*,2*R*)-1-Phenyl-propylene oxide

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

Marcello Tiecco,* Lorenzo Testaferri, Luana Bagnoli, Valentina Purgatorio, Andrea Temperini, Francesca Marini and Claudio Santi

Tetrahedron: Asymmetry *15 (2004) 405*



$C_{18}H_{20}OSe$

(2*R*,3*R*,5*R*)-2-Methyl-3-phenyl-5-[(phenylseleno)methyl]tetrahydrofuran

$[\alpha]_D^{22} = +34.9$ (*c* 1.33, $CHCl_3$)

Source of chirality: (1*R*,2*R*)-1-Phenyl-propylene oxide

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

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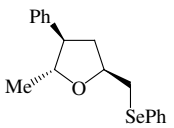
Tetrahedron: Asymmetry *15 (2004) 405*



$C_{18}H_{20}OSe$

(2*R*,3*R*,5*S*)-2-Methyl-3-phenyl-5-[(phenylseleno)methyl]tetrahydrofuran

$[\alpha]_D^{24} = -55.4$ (*c* 2.45, $CHCl_3$)

Source of chirality: (1*R*,2*R*)-1-Phenyl-propylene oxide

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

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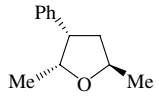
Tetrahedron: Asymmetry *15 (2004) 405*



$C_{12}H_{16}O$

(2*R*,3*S*,5*R*)-2,5-Dimethyl-3-phenyltetrahydrofuran

$[\alpha]_D^{26} = +66.9$ (*c* 1.29, $CHCl_3$)

Source of chirality: (1*R*,2*R*)-1-Phenylpropylene oxide

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

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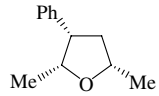
Tetrahedron: Asymmetry *15 (2004) 405*



$C_{12}H_{16}O$

(2*R*,3*S*,5*S*)-2,5-Dimethyl-3-phenyltetrahydrofuran

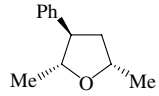
$[\alpha]_D^{24} = +113.0$ (*c* 0.76, $CHCl_3$)

Source of chirality: (1*R*,2*R*)-1-Phenylpropylene oxide

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

Marcello Tiecco,* Lorenzo Testaferri, Luana Bagnoli, Valentina Purgatorio, Andrea Temperini, Francesca Marini and Claudio Santi

Tetrahedron: Asymmetry *15 (2004) 405*



$C_{12}H_{16}O$

(2*R*,3*R*,5*S*)-2,5-Dimethyl-3-phenyltetrahydrofuran

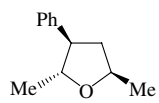
$[\alpha]_D^{22} = +8.16$ (*c* 1.03, $CHCl_3$)

Source of chirality: (1*R*,2*R*)-1-Phenylpropylene oxide

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

Marcello Tiecco,* Lorenzo Testaferri, Luana Bagnoli, Valentina Purgatorio, Andrea Temperini, Francesca Marini and Claudio Santi

Tetrahedron: Asymmetry *15 (2004) 405*



$C_{12}H_{16}O$

(2*R*,3*R*,5*R*)-2,5-Dimethyl-3-phenyltetrahydrofuran

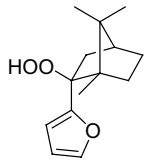
$[\alpha]_D^{23} = +15.3$ (*c* 1.0, $CHCl_3$)

Source of chirality: (1*R*,2*R*)-1-Phenylpropylene oxide

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

Alessandra Lattanzi,* Patrizia Iannece and Arrigo Scettri

Tetrahedron: Asymmetry *15 (2004) 413*

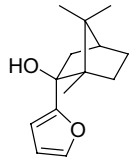


Ee >99%
$[\alpha]_D^{24} = +49.9$ (*c* 1.00, $CHCl_3$)
Source of chirality: stereoselective synthesis
Absolute configuration: 2*S*

$C_{14}H_{20}O_3$
(1*S*,2*S*,4*S*)-2-*exo*-Hydroperoxy-2-*endo*-(2′-furyl)-1,7,7-trimethylbicyclo[2.2.1] heptane

Alessandra Lattanzi,* Patrizia Iannece and Arrigo Scettri

Tetrahedron: Asymmetry *15 (2004) 413*

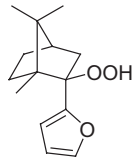


Ee >99%
$[\alpha]_D^{24} = +41.0$ (*c* 1.58, $CHCl_3$)
Source of chirality: stereoselective synthesis
Absolute configuration: 2*S*

$C_{14}H_{20}O_2$
(1*S*,2*S*,4*S*)-2-*exo*-Hydroxy-2-*endo*-(2′-furyl)-1,7,7-trimethylbicyclo[2.2.1] heptane

Alessandra Lattanzi,* Patrizia Iannece and Arrigo Scettri

Tetrahedron: Asymmetry *15 (2004) 413*

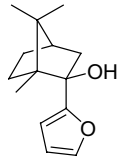


Ee >99%
$[\alpha]_D^{24} = -50.4$ (*c* 1.00, $CHCl_3$)
Source of chirality: stereoselective synthesis
Absolute configuration: 2*R*

$C_{14}H_{20}O_3$
(1*R*,2*R*,4*R*)-2-*exo*-Hydroperoxy-2-*endo*-(2′-furyl)-1,7,7-trimethylbicyclo[2.2.1] heptane

Alessandra Lattanzi,* Patrizia Iannece and Arrigo Scettri

Tetrahedron: Asymmetry *15 (2004) 413*

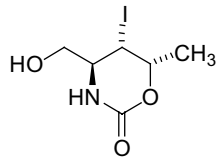


Ee >99%
$[\alpha]_D^{24} = -39.4$ (*c* 1.58, $CHCl_3$)
Source of chirality: stereoselective synthesis
Absolute configuration: 2*R*

$C_{14}H_{20}O_2$
(1*R*,2*R*,4*R*)-2-*exo*-Hydroxy-2-*endo*-(2′-furyl)-1,7,7-trimethylbicyclo[2.2.1] heptane

M. Eugenia González-Rosende,* J. Miquel Jordá-Gregori, José Sepúlveda-Arques and Mario Orena

Tetrahedron: Asymmetry *15 (2004) 419*

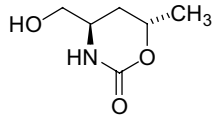


$[\alpha]_D = -70$ (*c* 1.08, MeOH)
Absolute configuration: 4*S*,5*S*,6*R*

$C_6H_{10}INO_3$
(4*S*,5*S*,6*R*)-4-Hydroxymethyl-5-yodo-6-methyl-1,3-oxazin-2-one

M. Eugenia González-Rosende,* J. Miquel Jordá-Gregori, José Sepúlveda-Arques and Mario Orena

Tetrahedron: Asymmetry *15 (2004) 419*

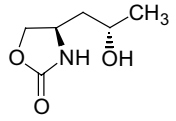


$[\alpha]_D = -78.7$ (*c* 1, MeOH)
Absolute configuration: 4*R*,6*S*

$C_6H_{11}NO_3$
(4*S*,6*S*)-4-Hydroxymethyl-6-methyl-1,3-oxazin-2-one

M. Eugenia González-Rosende,* J. Miquel Jordá-Gregori, José Sepúlveda-Arques and Mario Orena

Tetrahedron: Asymmetry *15 (2004) 419*

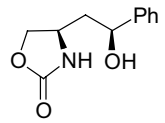


$[\alpha]_D = +10.9$ (*c* 0.96, MeOH)
Absolute configuration: 4*R*,2*S*

$C_6H_{11}NO_3$
(4*R*)-4-[(2*S*)-2-Hydroxypropyl]-1,3-oxazolidin-2-one

M. Eugenia González-Rosende,* J. Miquel Jordá-Gregori, José Sepúlveda-Arques and Mario Orena

Tetrahedron: Asymmetry *15 (2004) 419*

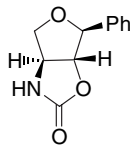


$[\alpha]_D = -8.13$ (*c* 0.96, MeOH)
Absolute configuration: 4*R*,2*S*

$C_{11}H_{13}NO_3$
(4*R*)-4-[(2*S*)-2-Hydroxy-2-phenylethyl]-1,3-oxazolidin-2-one

M. Eugenia González-Rosende,* J. Miquel Jordá-Gregori, José Sepúlveda-Arques and Mario Orena

Tetrahedron: Asymmetry *15 (2004) 419*

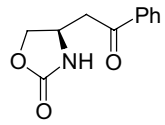


$[\alpha]_D = +79.7$ (c 1.04, MeOH)
Absolute configuration: 3a*R*,4*S*,6a*R*

$C_{11}H_{11}NO_3$
(3a*R*,4*S*,6a*R*)-4-Phenyltetrahydrofuro[3*a*-*d*][1,3]oxazol-2(3*H*)-one

M. Eugenia González-Rosende,* J. Miquel Jordá-Gregori, José Sepúlveda-Arques and Mario Orena

Tetrahedron: Asymmetry *15 (2004) 419*



$[\alpha]_D = +3.9$ (c 1, MeOH)
Absolute configuration: 4*R*

$C_{11}H_{11}NO_3$
(4*R*)-4-(2-Oxo-2-phenylethyl)-1,3-oxazolidin-2-one

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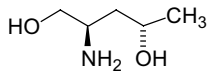
Tetrahedron: Asymmetry *15 (2004) 419*



$[\alpha]_D = +10.7$ (c 1.02, MeOH)
Absolute configuration: 2*R*,4*S*

$C_5H_{13}NO_2$
(2*R*,4*S*)-2-Amino-pentane-1,4-diol

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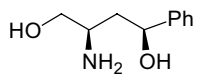
Tetrahedron: Asymmetry *15 (2004) 419*

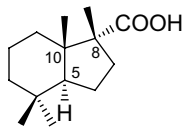


$[\alpha]_D = -3.46$ (c 1.04, MeOH)
Absolute configuration: 1*S*,3*R*

$C_{10}H_{15}NO_2$
(1*S*,3*R*)-3-Amino-1-phenylbutane-1,4-diol

Veaceslav Kulcitki, Nicon Ungur, Margherita Gavagnin,* Marianna Carbone and Guido Cimino

Tetrahedron: Asymmetry *15 (2004) 423*



$C_{14}H_{24}O_2$
(5*S*,8*R*,10*S*)-Austrodoric acid

$[\alpha]_D^{25}$ −16 (*c* 0.1, $CHCl_3$)
Source of chirality: natural
Absolute configuration: 5*S*,8*R*,10*S*

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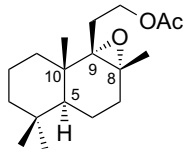
Tetrahedron: Asymmetry *15 (2004) 423*



$C_{18}H_{30}O_3$
(5*S*,8*R*,9*S*,10*S*)-8,9-Epoxy-bicyclohomofarnes-12-yl acetate

$[\alpha]_D^{25}$ +50.3 (*c* 0.7, $CHCl_3$)
Absolute configuration: 5*S*,8*R*,9*S*,10*S*

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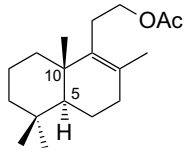
Tetrahedron: Asymmetry *15 (2004) 423*



$C_{18}H_{30}O_2$
(5*S*,10*S*)-Bicyclo-homofarnes-8(9)-en-12-yl acetate

$[\alpha]_D^{25}$ +117.1 (*c* 1.4, $CHCl_3$)
Absolute configuration: 5*S*,10*S*

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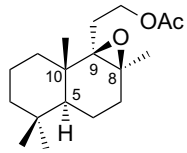
Tetrahedron: Asymmetry *15 (2004) 423*



$C_{18}H_{30}O_3$
(5*S*,8*S*,9*R*,10*S*)-8,9-Epoxy-bicyclo-homofarnes-12-yl acetate

$[\alpha]_D^{25}$ +30.6 (*c* 0.6, $CHCl_3$)
Absolute configuration: 5*S*,8*S*,9*R*,10*S*

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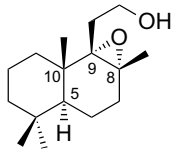
Tetrahedron: Asymmetry *15 (2004) 423*



$C_{16}H_{28}O_2$

(5*S*,8*R*,9*S*,10*S*)-8,9-Epoxy-bicyclo-homofarnes-12-ol

$[\alpha]_D^{25}$ +29.1 (*c* 0.5, $CHCl_3$)

Absolute configuration: 5*S*,8*R*,9*S*,10*S*

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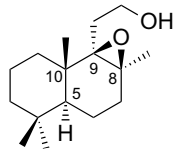
Tetrahedron: Asymmetry *15 (2004) 423*



$C_{16}H_{28}O_2$

(5*S*,8*S*,9*R*,10*S*)-8,9-Epoxy-bicyclo-homofarnes-12-ol

$[\alpha]_D^{25}$ +17.6 (*c* 0.6, $CHCl_3$)

Absolute configuration: 5*S*,8*S*,9*R*,10*S*

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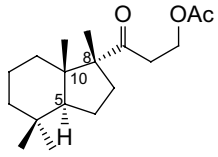
Tetrahedron: Asymmetry *15 (2004) 423*



$C_{18}H_{30}O_3$

(5*S*,8*R*,10*S*)-9-(2-Acetoxy-ethyl)-austrodor-9-one

$[\alpha]_D^{25}$ −2.4 (*c* 1.6, $CHCl_3$)

Absolute configuration: 5*S*,8*R*,10*S*

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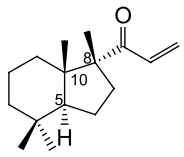
Tetrahedron: Asymmetry *15 (2004) 423*



$C_{16}H_{26}O$

(5*S*,8*R*,10*S*)-9-Vinyl-austrodor-9-one

$[\alpha]_D^{25}$ −6.4 (*c* 0.3, $CHCl_3$)

Absolute configuration: 5*S*,8*R*,10*S*

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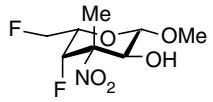
Tetrahedron: Asymmetry *15 (2004) 429*



$C_8H_{13}F_2NO_5$

Methyl 3,4,6-trideoxy-4,6-difluoro-3-*C*-methyl-3-nitro-β-L-galactopyranoside

$[\alpha]_D^{23} = +4.7$ (*c* 0.75, $CHCl_3$)

Source of chirality: methyl α-D-glucopyranoside, and stereoselective Baer and S_N2 DAST reactions

Absolute configuration: 1*S*,2*S*,3*S*,4*S*,5*S*; assigned on the analogy of enantiomerically pure precursor and NMR

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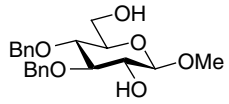
Tetrahedron: Asymmetry *15 (2004) 429*



$C_{21}H_{26}O_6$

Methyl 3,4-di-*O*-benzyl-β-D-glucopyranoside

$[\alpha]_D^{22} = -5.8$ (*c* 1.2, acetone)

Source of chirality: methyl β-D-glucopyranoside

Absolute configuration: 1*R*,2*R*,3*S*,4*R*,5*R*; assigned on the analogy of enantiomerically pure precursor

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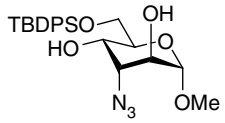
Tetrahedron: Asymmetry *15 (2004) 429*



$C_{23}H_{31}N_3O_5Si$

Methyl 3-azido-6-*O*-*tert*-butyl-diphenylsilyl-3-deoxy-α-D-altropyranoside

$[\alpha]_D^{25} = +35.7$ (*c* 0.9, acetone)

Source of chirality: methyl 3-azido-3-deoxy-α-D-altropyranoside

Absolute configuration: 1*S*,2*S*,3*R*,4*S*,5*R*; assigned on the analogy of precursor and NMR

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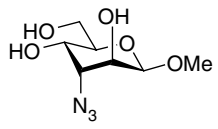
Tetrahedron: Asymmetry *15 (2004) 429*



$C_7H_{13}N_3O_5$

Methyl 3-azido-3-deoxy-β-D-altropyranoside

$[\alpha]_D^{23} = -124.4$ (*c* 0.57, acetone)

Source of chirality: methyl 3-azido-4,6-*O*-benzylidene-3-deoxy-β-D-altropyranoside

Absolute configuration: 1*R*,2*R*,3*S*,4*R*,5*R*; assigned on the analogy of precursor and NMR

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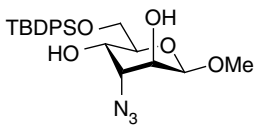
Tetrahedron: Asymmetry *15 (2004) 429*

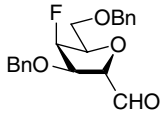


$[\alpha]_D^{25} = -58.2$ (*c* 0.78, acetone)
Source of chirality: methyl 3-azido-4,6-*O*-benzylidene-3-deoxy-β-D-altropyranoside
Absolute configuration: 1*R*,2*R*,3*S*,4*R*,5*R*; assigned on the analogy of precursor and NMR

$C_{23}H_{31}N_3O_5Si$
Methyl 3-azido-6-*O*-*tert*-butyl-diphenylsilyl-3-deoxy-β-D-altropyranoside

Yolanda Vera-Ayoso, Pastora Borrachero, Francisca Cabrera-Escribano,* Ana T. Carmona and Manuel Gómez-Guillén

Tetrahedron: Asymmetry *15 (2004) 429*



$[\alpha]_D^{22} = +29.6$ (*c* 1.02, acetone)
Source of chirality: methyl 3-*O*-benzyl-4,6-*O*-benzylidene-β-D-glucopyranoside and rearrangement reaction
Absolute configuration: 2*S*,3*R*,4*S*,5*R*; assigned on the analogy of precursor and NMR

$C_{20}H_{21}FO_4$
2,5-Anhydro-3,6-di-*O*-benzyl-4-deoxy-4-fluoro-*aldehydo*-D-talose

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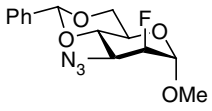
Tetrahedron: Asymmetry *15 (2004) 429*



$[\alpha]_D^{22} = +60.8$ (*c* 0.53, acetone)
Source of chirality: methyl 3-azido-4,6-*O*-benzylidene-3-deoxy-α-D-glucopyranoside and S_N2 fluorination by DAST
Absolute configuration: 1*S*,2*S*,3*S*,4*S*,5*R*; assigned on the analogy of precursor and NMR

$C_{14}H_{16}FN_3O_4$
Methyl 3-azido-4,6-*O*-benzylidene-2,3-dideoxy-2-fluoro-α-D-mannopyranoside

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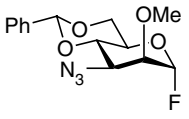
Tetrahedron: Asymmetry *15 (2004) 429*



$[\alpha]_D^{22} = -23.4$ (*c* 0.82, acetone)
Source of chirality: methyl 3-azido-4,6-*O*-benzylidene-3-deoxy-β-D-glucopyranoside and rearrangement by DAST
Absolute configuration: 1*R*,2*S*,3*S*,4*S*,5*R*; assigned on the analogy of precursor and NMR

$C_{14}H_{16}FN_3O_4$
3-Azido-4,6-*O*-benzylidene-3-deoxy-2-*O*-methyl-α-D-mannopyranosyl fluoride

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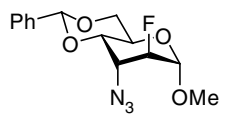
Tetrahedron: Asymmetry *15 (2004) 429*



$C_{14}H_{16}FN_3O_4$

Methyl 3-azido-4,6-*O*-benzylidene-2,3-dideoxy-2-fluoro-α-D-altropyranoside

$[\alpha]_D^{22} = +40.8$ (*c* 1, acetone)

Source of chirality: methyl 3-azido-4,6-*O*-benzylidene-3-deoxy-α-D-altropyranoside and fluorination by DAST

Absolute configuration: 1*S*,2*S*,3*R*,4*S*,5*R*; assigned on the analogy of precursor and NMR

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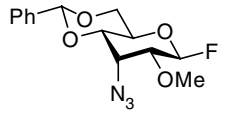
Tetrahedron: Asymmetry *15 (2004) 429*



$C_{14}H_{16}FN_3O_4$

3-Azido-4,6-*O*-benzylidene-3-deoxy-2-*O*-methyl-β-D-allopyranosyl fluoride

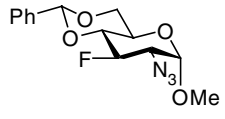
$[\alpha]_D^{23} = -83.5$ (*c* 0.9, acetone)

Source of chirality: methyl 3-azido-4,6-*O*-benzylidene-3-deoxy-α-D-altropyranoside and rearrangement by DAST

Absolute configuration: 1*S*,2*R*,3*R*,4*S*,5*R*; assigned on the analogy of precursor and NMR

Yolanda Vera-Ayoso, Pastora Borrachero, Francisca Cabrera-Escribano,* Ana T. Carmona and Manuel Gómez-Guillén

Tetrahedron: Asymmetry *15 (2004) 429*



$C_{14}H_{16}FN_3O_4$

Methyl 2-azido-4,6-*O*-benzylidene-2,3-dideoxy-3-fluoro-α-D-glucopyranoside

$[\alpha]_D^{23} = +63.2$ (*c* 0.94, acetone)

Source of chirality: methyl 3-azido-4,6-*O*-benzylidene-3-deoxy-α-D-altropyranoside and rearrangement by DAST

Absolute configuration: 1*S*,2*S*,3*R*,4*R*,5*R*; assigned on the analogy of precursor and NMR

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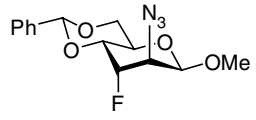
Tetrahedron: Asymmetry *15 (2004) 429*



$C_{14}H_{16}FN_3O_4$

Methyl 2-azido-4,6-*O*-benzylidene-2,3-dideoxy-3-fluoro-β-D-altropyranoside

$[\alpha]_D^{22} = -107.3$ (*c* 1.14, acetone)

Source of chirality: methyl 3-azido-4,6-*O*-benzylidene-3-deoxy-β-D-altropyranoside and rearrangement by DAST

Absolute configuration: 1*R*,2*R*,3*S*,4*R*,5*R*; assigned on the analogy of precursor and NMR

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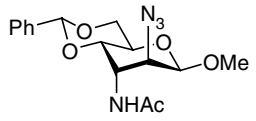
Tetrahedron: Asymmetry *15 (2004) 429*



$C_{16}H_{20}N_4O_5$

$[\alpha]_D^{24} = -54.6$ (*c* 0.80, acetone)

Source of chirality: methyl 3-azido-4,6-*O*-benzylidene-3-deoxy-β-D-altropyranoside and rearrangement reaction

Absolute configuration: 1*R*,2*S*,3*S*,4*S*,5*R*; assigned on the analogy of precursor and NMR

Methyl 3-acetamido-2-azido-4,6-*O*-benzylidene-2,3-dideoxy-β-D-altropyranoside

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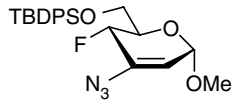
Tetrahedron: Asymmetry *15 (2004) 429*



$C_{23}H_{28}FN_3O_3Si$

$[\alpha]_D^{25} = -1.8$ (*c* 0.67, acetone)

Source of chirality: methyl 3-azido-3-deoxy-α-D-altropyranoside and reaction with DAST

Absolute configuration: 1*S*,4*S*,5*R*; assigned on the analogy of precursor and NMR

Methyl 3-azido-6-*O*-*tert*-butyl-diphenylsilyl-2,3,4-trideoxy-4-fluoro-α-D-*erythro*-hex-2-enopyranoside

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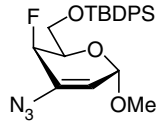
Tetrahedron: Asymmetry *15 (2004) 429*



$C_{23}H_{28}FN_3O_3Si$

$[\alpha]_D^{25} = -4.4$ (*c* 0.60, acetone)

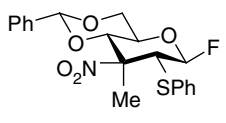
Source of chirality: methyl 3-azido-3-deoxy-α-D-altropyranoside and reaction with DAST

Absolute configuration: 1*S*,4*R*,5*R*; assigned on the analogy of precursor and NMR

Methyl 3-azido-6-*O*-*tert*-butyl-diphenylsilyl-2,3,4-trideoxy-4-fluoro-α-D-*threo*-hex-2-enopyranoside

Yolanda Vera-Ayoso, Pastora Borrachero, Francisca Cabrera-Escribano,* Ana T. Carmona and Manuel Gómez-Guillén

Tetrahedron: Asymmetry *15 (2004) 429*



$C_{20}H_{20}FNO_5S$

$[\alpha]_D^{26} = -92.3$ (*c* 0.65, acetone)

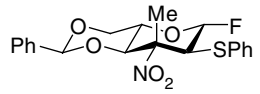
Source of chirality: methyl α-D-glucopyranoside and stereoselective Baer and rearrangement reactions

Absolute configuration: 1*S*,2*R*,3*S*,4*S*,5*R*; assigned on the analogy of enantiomerically pure precursor and NMR

4,6-*O*-Benzylidene-2,3-dideoxy-3-*C*-methyl-3-nitro-2-phenylthio-β-D-glucopyranosyl fluoride

Yolanda Vera-Ayoso, Pastora Borrachero, Francisca Cabrera-Escribano,* Ana T. Carmona and Manuel Gómez-Guillén

Tetrahedron: Asymmetry *15 (2004) 429*



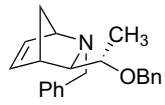
$C_{20}H_{20}FNO_5S$

4,6-*O*-Benzylidene-2,3-dideoxy-3-*C*-methyl-3-nitro-2-phenylthio-β-L-glucopyranosyl fluoride

$[\alpha]_D^{23} = +84.5$ (*c* 0.84, acetone)
Source of chirality: methyl α-D-glucopyranoside and stereoselective Baer and rearrangement reactions
Absolute configuration: 1*R*,2*S*,3*R*,4*R*,5*S*; assigned on the analogy of enantiomerically pure precursor and NMR

Anna Trifonova and Pher G. Andersson*

Tetrahedron: Asymmetry *15 (2004) 445*



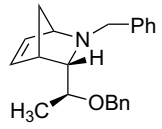
$C_{22}H_{25}NO$

(3*R*)-2-Benzyl-3-((1′*S*)-benzyloxyethyl)-2-azabicydo-[2.2.1]-hept-5-ene

Ee >97%
$[\alpha]_D^{24} = -42.5$ (*c* 1.06, $CHCl_3$)
Source of chirality: (*S*)-(−)-lactate
Colorless oil
Absolute configuration: (1′*S*,3*R*)

Anna Trifonova and Pher G. Andersson*

Tetrahedron: Asymmetry *15 (2004) 445*



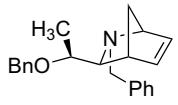
$C_{22}H_{25}NO$

(3*S*)-2-Benzyl-3-((1′*S*)-benzyloxyethyl)-2-azabicyclo-[2.2.1]-hept-5-ene

Ee >97%
$[\alpha]_D^{24} = -27$ (*c* 1.0, $CHCl_3$)
Source of chirality: (*S*)-(−)-lactate
Yellow oil
Absolute configuration: (1′*S*,3*S*)

Anna Trifonova and Pher G. Andersson*

Tetrahedron: Asymmetry *15 (2004) 445*



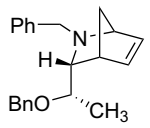
$C_{22}H_{25}NO$

(3*R*)-2-Benzyl-3-((1′*S*)-benzyloxyethyl)-2-azabicyclo-[2.2.1]-hept-5-ene

Ee >97%
$[\alpha]_D^{24} = +76$ (*c* 1.15, $CHCl_3$)
Source of chirality: (*S*)-(−)-lactate
Yellow oil
Absolute configuration: (1′*S*,3*R*)

Anna Trifonova and Pher G. Andersson*

Tetrahedron: Asymmetry *15 (2004) 445*



Ee >97%
$[\alpha]_D^{24} = +135$ (c 0.80, $CHCl_3$)
Source of chirality: (*S*)-(−)-lactate
Light-yellow oil
Absolute configuration: (1′*S*,3*S*)

$C_{22}H_{25}NO$
(3*S*)-2-Benzyl-3-((1′*S*)-benzyloxyethyl)-2-azabicyclo-[2.2.1]-hept-5-ene

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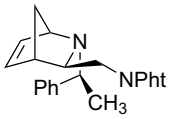
Anna Trifonova and Pher G. Andersson*

Tetrahedron: Asymmetry *15 (2004) 445*



Ee >99%
$[\alpha]_D^{22} = -84$ (c 3.0, $CHCl_3$)
Source of chirality: (1*S*)-phenylethyl amine
Light-yellow oil
Absolute configuration: (1*S*,3*R*)

$C_{23}H_{21}N_2O_2$
2′-((3*R*)-2-((1*S*)-Phenylethylamino)-2-azabicyclo-[2.2.1]-hept-5-ene-3-ylmethyl)-isoindole-1′,3′-dione

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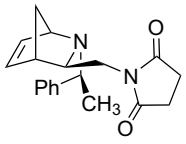
Anna Trifonova and Pher G. Andersson*

Tetrahedron: Asymmetry *15 (2004) 445*



Ee >99%
$[\alpha]_D^{22} = -33.5$ (c 1.0, $CHCl_3$)
Source of chirality: (1*S*)-phenylethyl amine
White crystals
Absolute configuration: (1*S*,3*R*)

$C_{19}H_{22}N_2O_2$
2′-((3*R*)-2-((1*S*)-Phenylethylamino)-2-azabicyclo-[2.2.1]-hept-5-ene-3-ylmethyl)-pyrrolidine-1′,3′-dione

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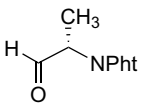
Anna Trifonova and Pher G. Andersson*

Tetrahedron: Asymmetry *15 (2004) 445*

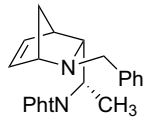


Ee = 97%
$[\alpha]_D^{24} = -43$ (c 1.0, C_6H_6)
Source of chirality: L-alanine
White crystals
Absolute configuration: (2*S*)

$C_{11}H_9NO_3$
(2*S*)-2-Phthalimidopropanal

Anna Trifonova and Pher G. Andersson*

Tetrahedron: Asymmetry *15 (2004) 445*

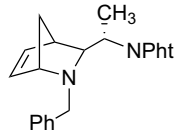


Ee = 90%
$[\alpha]_D^{22} = +24$ (*c* 1.0, $CHCl_3$)
Source of chirality: L-alaninol
Light-yellow oil
Absolute configuration: (1*S*,3*R*)

$C_{23}H_{22}N_2O_2$
2′-((1*S*)-((3*R*)-2-Benzyl-2-azabicyclo-[2.2.1]-hept-5-ene-3-yl)-ethyl)-isoindole-1′,3′-dione

Anna Trifonova and Pher G. Andersson*

Tetrahedron: Asymmetry *15 (2004) 445*

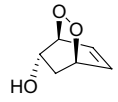


Ee = 90%
$[\alpha]_D^{22} = +2.5$ (*c* 1.0, $CHCl_3$)
Source of chirality: L-alaninol
Light-yellow oil
Absolute configuration: (1*S*,3*S*)

$C_{23}H_{22}N_2O_2$
2′-((1*S*)-((3*S*)-2-Benzyl-2-azabicyclo-[2.2.1]-hept-5-ene-3-yl)-ethyl)-isoindole-1′,3′-dione

M. Serdar Gültekin, Murat Çelik, Engin Turkut, Cihangir Tanyeli* and Metin Balci*

Tetrahedron: Asymmetry *15 (2004) 453*

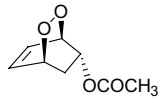


Ee = 91%
$[\alpha]_D^{25} = -23.3$ (*c* 0.2, MeOH)
Source of chirality: enzymatic resolution
Absolute configuration: 1*R*,4*R*,5*R*

$C_6H_8O_3$
(1*R*,4*R*,5*R*)-2,3-Dioxabicyclo[2.2.2]oct-7-en-5-ol

M. Serdar Gültekin, Murat Çelik, Engin Turkut, Cihangir Tanyeli* and Metin Balci*

Tetrahedron: Asymmetry *15 (2004) 453*

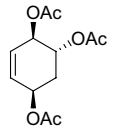


Ee = 72%
$[\alpha]_D^{25} = +16.9$ (*c* 0.1, MeOH)
Source of chirality: enzymatic resolution
Absolute configuration: 1*S*,4*S*,5*S*

$C_8H_{10}O_4$
(1*S*,4*S*,5*S*)-2,3-Dioxabicyclo[2.2.2]oct-7-en-5-yl acetate

M. Serdar Gültekin, Murat Çelik, Engin Turkut, Cihangir Tanyeli* and Metin Balci*

Tetrahedron: Asymmetry *15 (2004) 453*

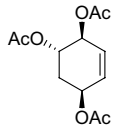


Ee = 91%
$[\alpha]_D^{25} = -4.8$ (*c* 0.3, MeOH)
Source of chirality: enzymatic resolution
Absolute configuration: 1*R*,2*R*,5*R*

$C_{12}H_{16}O_6$
(1*R*,2*R*,5*R*)-(−)-2,5-Bis(acetyloxy)cyclohex-3-en-1-yl acetate

M. Serdar Gültekin, Murat Çelik, Engin Turkut, Cihangir Tanyeli* and Metin Balci*

Tetrahedron: Asymmetry *15 (2004) 453*

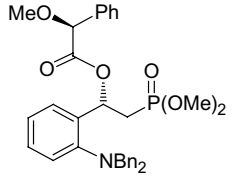


Ee = 72%
$[\alpha]_D^{25} = +3.8$ (*c* 0.3, MeOH)
Source of chirality: enzymatic resolution
Absolute configuration: 1*S*,2*S*,5*S*

$C_{12}H_{16}O_6$
(1*S*,2*S*,5*S*)-(+)-2,5-Bis(acetyloxy)cyclohex-3-en-1-yl acetate

Angelina González-Morales, Daniel Díaz-Coutiño, Mario Fernández-Zertuche, Oscar García-Barradas and Mario Ordóñez*

Tetrahedron: Asymmetry *15 (2004) 457*

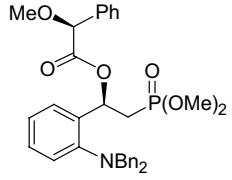


De >98%
$[\alpha]_D = +23.8$ (*c* = 14, $CHCl_3$)
Source of chirality: chemical resolution
Absolute configuration: (*S*,*S*)

$C_{33}H_{36}NO_6P$
Dimethyl (*S*)-2-(2-*N*,*N*-dibenzylaminophenyl)-2-[(*S*)-*O*-menthylmandelate]ethylphosphonate

Angelina González-Morales, Daniel Díaz-Coutiño, Mario Fernández-Zertuche, Oscar García-Barradas and Mario Ordóñez*

Tetrahedron: Asymmetry *15 (2004) 457*

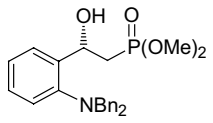


De >98%
$[\alpha]_D = +35.1$ (*c* = 5.3, $CHCl_3$)
Source of chirality: chemical resolution
Absolute configuration: (*R*,*S*)

$C_{33}H_{36}NO_6P$
Dimethyl (*R*)-2-(2-*N*,*N*-dibenzylaminophenyl)-2-[(*S*)-*O*-menthylmandelate]ethylphosphonate

Angelina González-Morales, Daniel Díaz-Coutiño, Mario Fernández-Zertuche, Oscar García-Barradas and Mario Ordóñez*

Tetrahedron: Asymmetry *15 (2004) 457*

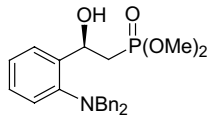


Ee >94%
$[\alpha]_D = +5.9$ ($c = 1.4$, $CHCl_3$)
Source of chirality: chemical resolution
Absolute configuration: (*S*)

$C_{24}H_{28}NO_4P$
Dimethyl (*S*)-2-(2-*N*,*N*-dibenzylaminophenyl)-2-hydroxyethylphosphonate

Angelina González-Morales, Daniel Díaz-Coutiño, Mario Fernández-Zertuche, Oscar García-Barradas and Mario Ordóñez*

Tetrahedron: Asymmetry *15 (2004) 457*

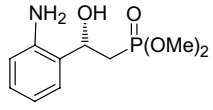


Ee >98%
$[\alpha]_D = -6.1$ ($c = 1.14$, $CHCl_3$)
Source of chirality: chemical resolution
Absolute configuration: (*R*)

$C_{24}H_{28}NO_4P$
Dimethyl (*R*)-2-(2-*N*,*N*-dibenzylaminophenyl)-2-hydroxyethylphosphonate

Angelina González-Morales, Daniel Díaz-Coutiño, Mario Fernández-Zertuche, Oscar García-Barradas and Mario Ordóñez*

Tetrahedron: Asymmetry *15 (2004) 457*

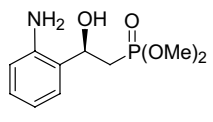


Ee >95%
$[\alpha]_D = +13.3$ ($c = 1.2$, $CHCl_3$)
Source of chirality: chemical resolution
Absolute configuration: (*S*)

$C_{10}H_{16}NO_4P$
Dimethyl (*S*)-2-(2-aminophenyl)-2-hydroxyethylphosphonate

Angelina González-Morales, Daniel Díaz-Coutiño, Mario Fernández-Zertuche, Oscar García-Barradas and Mario Ordóñez*

Tetrahedron: Asymmetry *15 (2004) 457*

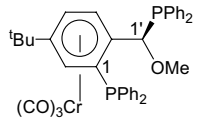


Ee >98%
$[\alpha]_D = -13.7$ ($c = 1.4$, $CHCl_3$)
Source of chirality: chemical resolution
Absolute configuration: (*R*)

$C_{10}H_{16}NO_4P$
Dimethyl (*R*)-2-(2-aminophenyl)-2-hydroxyethylphosphonate

Susan E. Gibson,* Hasim Ibrahim, Corinne Pasquier and Vishwanath M. Swamy

Tetrahedron: Asymmetry *15 (2004) 465*

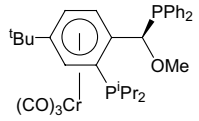


Ee = 97%
$[\alpha]_D^{24} = -242$ (*c* 0.5, CH_2Cl_2)
Source of chirality: α-methylbenzylamine
Absolute configuration: 1*pR*,1′*R*

$C_{39}H_{36}CrO_4P_2$
(−)-(1*pR*,1′*R*)-Tricarbonyl[1-diphenylphosphine-2-(1′-diphenylphosphine-1′-methoxymethyl)-5-*tert*-butylbenzene]-chromium(0)

Susan E. Gibson,* Hasim Ibrahim, Corinne Pasquier and Vishwanath M. Swamy

Tetrahedron: Asymmetry *15 (2004) 465*

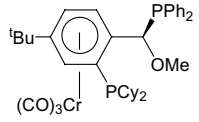


Ee = 97%
$[\alpha]_D^{24} = -48.2$ (*c* 0.5, CH_2Cl_2)
Source of chirality: α-methylbenzylamine
Absolute configuration: 1*pR*,1′*R*

$C_{33}H_{40}CrO_4P_2$
(−)-(1*pR*,1′*R*)-Tricarbonyl[1-diisopropylphosphine-2-(1′-diphenylphosphine-1′-methoxymethyl)-5-*tert*-butylbenzene]-chromium(0)

Susan E. Gibson,* Hasim Ibrahim, Corinne Pasquier and Vishwanath M. Swamy

Tetrahedron: Asymmetry *15 (2004) 465*

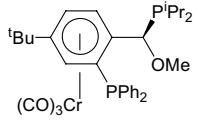


Ee = 97%
$[\alpha]_D^{24} = -111.2$ (*c* 0.5, CH_2Cl_2)
Source of chirality: α-methylbenzylamine
Absolute configuration: 1*pR*,1′*R*

$C_{39}H_{48}CrO_4P_2$
(−)-(1*pR*,1′*R*)-Tricarbonyl[1-dicyclohexylphosphine-2-(1′-diphenylphosphine-1′-methoxymethyl)-5-*tert*-butylbenzene]-chromium(0)

Susan E. Gibson,* Hasim Ibrahim, Corinne Pasquier and Vishwanath M. Swamy

Tetrahedron: Asymmetry *15 (2004) 465*

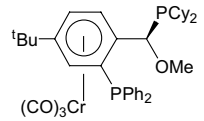


Ee = 96%
$[\alpha]_D^{24} = -104.6$ (*c* 0.5, CH_2Cl_2)
Source of chirality: α-methylbenzylamine
Absolute configuration: 1*pR*,1′*R*

$C_{33}H_{40}CrO_4P_2$
(−)-(1*pR*,1′*R*)-Tricarbonyl[1-diphenylphosphine-2-(1′-diisopropylphosphine-1′-methoxymethyl)-5-*tert*-butylbenzene]-chromium(0)

Susan E. Gibson,* Hasim Ibrahim, Corinne Pasquier and Vishwanath M. Swamy

Tetrahedron: Asymmetry *15 (2004) 465*

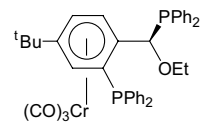


Ee = 97%
$[\alpha]_D^{24} = -82.9$ (*c* 0.5, CH_2Cl_2)
Source of chirality: α-methylbenzylamine
Absolute configuration: 1*pR*,1′*R*

$C_{39}H_{48}CrO_4P_2$
(−)-(1*pR*,1′*R*)-Tricarbonyl[1-diphenylphosphine-2-(1′-dicyclohexylphosphine-1′-methoxymethyl)-5-*tert*-butylbenzene]-chromium(0)

Susan E. Gibson,* Hasim Ibrahim, Corinne Pasquier and Vishwanath M. Swamy

Tetrahedron: Asymmetry *15 (2004) 465*

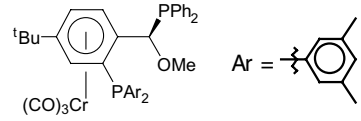


Ee = 84%
$[\alpha]_D^{24} = -162$ (*c* 0.5, CH_2Cl_2)
Source of chirality: α-methylbenzylamine
Absolute configuration: 1*pR*,1′*R*

$C_{40}H_{38}CrO_4P_2$
(−)-(1*pR*,1′*R*)-Tricarbonyl[1-diphenylphosphine-2-(1′-diphenylphosphine-1′-ethoxymethyl)-5-*tert*-butylbenzene]-chromium(0)

Susan E. Gibson,* Hasim Ibrahim, Corinne Pasquier and Vishwanath M. Swamy

Tetrahedron: Asymmetry *15 (2004) 465*

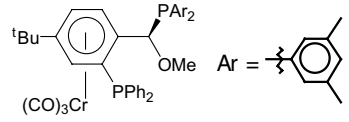


Ee = 95%
$[\alpha]_D^{24} = -171$ (*c* 0.5, CH_2Cl_2)
Source of chirality: α-methylbenzylamine
Absolute configuration: 1*pR*,1′*R*

$C_{43}H_{44}CrO_4P_2$
(−)-(1*pR*,1′*R*)-Tricarbonyl[1-di(3,5-dimethylphenyl)phosphine-2-(1′-diphenylphosphine-1′-methoxymethyl)-5-*tert*-butylbenzene]chromium(0)

Susan E. Gibson,* Hasim Ibrahim, Corinne Pasquier and Vishwanath M. Swamy

Tetrahedron: Asymmetry *15 (2004) 465*

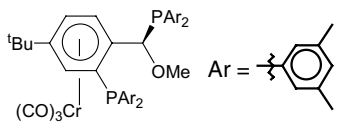


Ee = 95%
$[\alpha]_D^{24} = -132$ (*c* 0.5, CH_2Cl_2)
Source of chirality: α-methylbenzylamine
Absolute configuration: 1*pR*,1′*R*

$C_{43}H_{44}CrO_4P_2$
(−)-(1*pR*,1′*R*)-Tricarbonyl[1-diphenylphosphine-2-(1′-di-3,5-dimethylphenylphosphine-1′-methoxymethyl)-5-*tert*-butylbenzene]chromium(0)

Susan E. Gibson,* Hasim Ibrahim, Corinne Pasquier and Vishwanath M. Swamy

Tetrahedron: Asymmetry *15 (2004) 465*



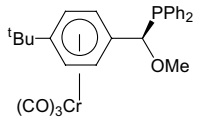
Ee = 97%
$[\alpha]_D^{24} = -27.6$ (*c* 0.5, CH_2Cl_2)
Source of chirality: α-methylbenzylamine
Absolute configuration: 1*pR*,1′*R*

$C_{47}H_{52}CrO_4P_2$

(−)-(1*pR*,1′*R*)-Tricarbonyl[1-di(3,5-dimethylphenyl)phosphine-2-(1′-di(3,5-dimethylphenyl)phosphine-1′-methoxymethyl)-5-*tert*-butylbenzene]chromium(0)

Susan E. Gibson,* Hasim Ibrahim, Corinne Pasquier and Vishwanath M. Swamy

Tetrahedron: Asymmetry *15 (2004) 465*



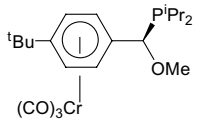
Ee = 97%
$[\alpha]_D^{24} = +66.1$ (*c* 0.75, CH_2Cl_2)
Source of chirality: α-methylbenzylamine
Absolute configuration: *R*

$C_{27}H_{27}CrO_4P$

(+)-(*R*)-Tricarbonyl[1-(1-diphenylphosphine-1-methoxymethyl)-4-*tert*-butylbenzene]chromium(0)

Susan E. Gibson,* Hasim Ibrahim, Corinne Pasquier and Vishwanath M. Swamy

Tetrahedron: Asymmetry *15 (2004) 465*



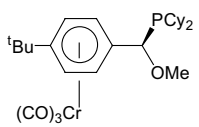
Ee = 97%
$[\alpha]_D^{24} = +109.4$ (*c* 0.5, CH_2Cl_2)
Source of chirality: α-methylbenzylamine
Absolute configuration: *R*

$C_{21}H_{31}CrO_4P$

(+)-(*R*)-Tricarbonyl[1-(1-di-*iso*-propylphosphine-1-methoxymethyl)-4-*tert*-butylbenzene]chromium(0)

Susan E. Gibson,* Hasim Ibrahim, Corinne Pasquier and Vishwanath M. Swamy

Tetrahedron: Asymmetry *15 (2004) 465*



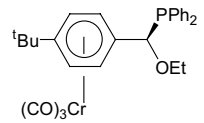
Ee = 96%
$[\alpha]_D^{24} = +83.4$ (*c* 0.5, CH_2Cl_2)
Source of chirality: α-methylbenzylamine
Absolute configuration: *R*

$C_{27}H_{39}CrO_4P$

(+)-(*R*)-Tricarbonyl[1-(1-dicyclohexylphosphine-1-methoxymethyl)-4-*tert*-butylbenzene]chromium(0)

Susan E. Gibson,* Hasim Ibrahim, Corinne Pasquier and Vishwanath M. Swamy

Tetrahedron: Asymmetry *15 (2004) 465*

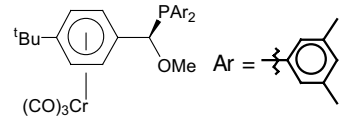


Ee = 97%
$[\alpha]_D^{24} = +133.4$ (*c* 0.25, CH_2Cl_2)
Source of chirality: α-methylbenzylamine
Absolute configuration: *R*

$C_{28}H_{29}CrO_4P$
(+)-(*R*)-Tricarbonyl[1-(1-diphenylphosphine-1-ethoxymethyl)-4-*tert*-butylbenzene]chromium(0)

Susan E. Gibson,* Hasim Ibrahim, Corinne Pasquier and Vishwanath M. Swamy

Tetrahedron: Asymmetry *15 (2004) 465*

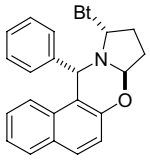


Ee = 97%
$[\alpha]_D^{24} = +36.4$ (*c* 0.5, CH_2Cl_2)
Source of chirality: α-methylbenzylamine
Absolute configuration: *R*

$C_{39}H_{36}CrO_4P_2$
(+)-(*R*)-Tricarbonyl[1-(di-(3,5-dimethylphenyl)phosphine-1-methoxymethyl)-4-*tert*-butylbenzene]chromium(0)

Xuenong Xu, Jun Lu, Yanmei Dong, Rui Li, Zongming Ge and Yuefei Hu*

Tetrahedron: Asymmetry *15 (2004) 475*

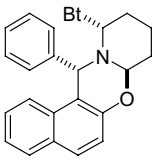


Ee = 100%
$[\alpha]_D^{25} = +101.6$ (*c* 1.25, $CHCl_3$)
Source of chirality: *S*-Betti base
Absolute configuration: 7a*R*,10*R*,12*S*

$C_{27}H_{22}N_4O$
(7a*R*,10*R*,12*S*)-10-(1-Benzotriazolyl)-12-phenyl-7a,8,9,10-tetrahydro-12*H*-naphtho[1,2-*e*]pyrrolo[2,1-*b*][1,3]oxazine

Xuenong Xu, Jun Lu, Yanmei Dong, Rui Li, Zongming Ge and Yuefei Hu*

Tetrahedron: Asymmetry *15 (2004) 475*

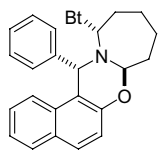


Ee = 100%
$[\alpha]_D^{25} = +152.6$ (*c* 1.6, $CHCl_3$)
Source of chirality: *S*-Betti base
Absolute configuration: 7a*R*,11*R*,13*S*

$C_{28}H_{24}N_4O$
(7a*R*,11*R*,13*S*)-11-(1-Benzotriazolyl)-13-phenyl-8,9,10,11-tetrahydro-7a*H*,13*H*-naphtho[1,2-*e*]pyrido[2,1-*b*][1,3]oxazine

Xuenong Xu, Jun Lu, Yanmei Dong, Rui Li, Zongming Ge and Yuefei Hu*

Tetrahedron: Asymmetry *15 (2004) 475*



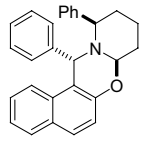
Ee = 100%
$[\alpha]_D^{25} = +146.2$ (*c* 0.9, $CHCl_3$)
Source of chirality: *S*-Betti base
Absolute configuration: 7a*R*,12*R*,14*S*

$C_{29}H_{26}N_4O$

(7a*R*,12*R*,14*S*)-12-(1-Benzotriazolyl)-14-phenyl-7a,8,9,10,11,12-hexahydro-14*H*-naphtho[1′,2′:5,6][1,3]oxazino[2,1-*b*]azepine

Xuenong Xu, Jun Lu, Yanmei Dong, Rui Li, Zongming Ge and Yuefei Hu*

Tetrahedron: Asymmetry *15 (2004) 475*



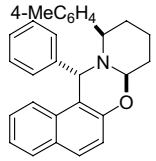
Ee >99%
$[\alpha]_D^{25} = +110.1$ (*c* 0.21, $CHCl_3$)
Source of chirality: synthesized
Absolute configuration: 7a*R*,11*R*,13*S*
(assigned by NMR spectroscopic and single crystal X-ray diffraction analysis)

$C_{28}H_{25}NO$

(7a*R*,11*R*,13*S*)-11,13-Diphenyl-8,9,10,11-tetrahydro-7a*H*,13*H*-naphtho[1,2-*e*]pyrido[2,1-*b*][1,3]oxazine

Xuenong Xu, Jun Lu, Yanmei Dong, Rui Li, Zongming Ge and Yuefei Hu*

Tetrahedron: Asymmetry *15 (2004) 475*



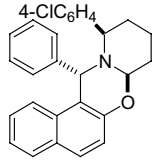
Ee >99%
$[\alpha]_D^{25} = +97.1$ (*c* 0.3, $CHCl_3$)
Source of chirality: synthesized
Absolute configuration: 7a*R*,11*R*,13*S*
(assigned by NMR spectroscopic and single crystal X-ray diffraction analysis)

$C_{29}H_{27}NO$

(7a*R*,11*R*,13*S*)-11-(4-Methylphenyl)-13-phenyl-8,9,10,11-tetrahydro-7a*H*,13*H*-naphtho[1,2-*e*]pyrido[2,1-*b*][1,3]oxazine

Xuenong Xu, Jun Lu, Yanmei Dong, Rui Li, Zongming Ge and Yuefei Hu*

Tetrahedron: Asymmetry *15 (2004) 475*



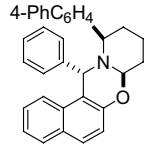
Ee >99%
$[\alpha]_D^{25} = +124$ (*c* 0.1, $CHCl_3$)
Source of chirality: synthesized
Absolute configuration: 7a*R*,11*R*,13*S*
(assigned by NMR spectroscopic and single crystal X-ray diffraction analysis)

$C_{28}H_{24}ClNO$

(7a*R*,11*R*,13*S*)-11-(4-Chlorophenyl)-13-phenyl-8,9,10,11-tetrahydro-7a*H*,13*H*-naphtho[1,2-*e*]pyrido[2,1-*b*][1,3]oxazine

Xuenong Xu, Jun Lu, Yanmei Dong, Rui Li, Zongming Ge and Yuefei Hu*

Tetrahedron: Asymmetry *15 (2004) 475*



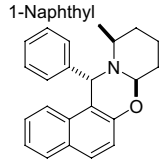
Ee >99%
$[\alpha]_D^{25} = +95.4$ (*c* 0.2, $CHCl_3$)
Source of chirality: synthesized
Absolute configuration: 7a*R*,11*R*,13*S* (assigned by NMR spectroscopic and single crystal X-ray diffraction analysis)

$C_{34}H_{29}NO$

(7a*R*,11*R*,13*S*)-11-(4-Phenylphenyl)-13-phenyl-8,9,10,11-tetrahydro-7a*H*,13*H*-naphtho[1,2-*e*]pyrido[2,1-*b*][1,3]oxazine

Xuenong Xu, Jun Lu, Yanmei Dong, Rui Li, Zongming Ge and Yuefei Hu*

Tetrahedron: Asymmetry *15 (2004) 475*



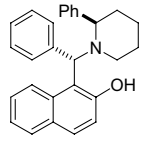
Ee >99%
$[\alpha]_D^{25} = +290.5$ (*c* 0.3, $CHCl_3$)
Source of chirality: synthesized
Absolute configuration: 7a*R*,11*R*,13*S* (assigned by NMR spectroscopic and single crystal X-ray diffraction analysis)

$C_{32}H_{27}NO$

(7a*R*,11*R*,13*S*)-11-(1-Naphthyl)-13-phenyl-8,9,10,11-tetrahydro-7a*H*,13*H*-naphtho[1,2-*e*]pyrido[2,1-*b*][1, 3]oxazine

Xuenong Xu, Jun Lu, Yanmei Dong, Rui Li, Zongming Ge and Yuefei Hu*

Tetrahedron: Asymmetry *15 (2004) 475*



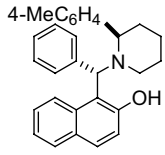
Ee >99%
$[\alpha]_D^{25} = +46.8$ (*c* 0.3, $CHCl_3$)
Source of chirality: synthesized
Absolute configuration: *S*,*R* (assigned by NMR spectroscopic)

$C_{28}H_{27}NO$

(*S*)-1-[α-[(*R*)-2-Phenylpiperidyl]benzyl]-2-naphthol

Xuenong Xu, Jun Lu, Yanmei Dong, Rui Li, Zongming Ge and Yuefei Hu*

Tetrahedron: Asymmetry *15 (2004) 475*



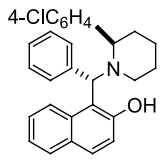
Ee >99%
$[\alpha]_D^{25} = +28.9$ (*c* 0.2, $CHCl_3$)
Source of chirality: synthesized
Absolute configuration: *S*,*R* (assignedby NMR spectroscopic)

$C_{29}H_{29}NO$

(*S*)-1-[α-[(*R*)-2-(4-Methylphenyl)piperidyl]benzyl]-2-naphthol

Xuenong Xu, Jun Lu, Yanmei Dong, Rui Li, Zongming Ge and Yuefei Hu*

Tetrahedron: Asymmetry *15 (2004) 475*



$C_{28}H_{26}ClNO$

(*S*)-1-[α-[(*R*)-2-(4-Chlorophenyl)piperidyl]benzyl]-2-naphthol

Ee >99%

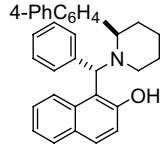
$[\alpha]_D^{25} = +54.6$ (*c* 0.2, $CHCl_3$)

Source of chirality: synthesized

Absolute configuration: *S*,*R* (assigned by NMR spectroscopic)

Xuenong Xu, Jun Lu, Yanmei Dong, Rui Li, Zongming Ge and Yuefei Hu*

Tetrahedron: Asymmetry *15 (2004) 475*



$C_{34}H_{31}NO$

(*S*)-1-[α-[(*R*)-2-(4-Phenylphenyl)piperidinyl]benzyl]-2-naphthol

Ee >99%

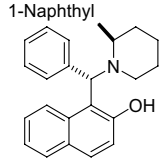
$[\alpha]_D^{25} = +64.6$ (*c* 0.1, $CHCl_3$)

Source of chirality: synthesized

Absolute configuration: *S*,*R* (assigned by NMR spectroscopic)

Xuenong Xu, Jun Lu, Yanmei Dong, Rui Li, Zongming Ge and Yuefei Hu*

Tetrahedron: Asymmetry *15 (2004) 475*



$C_{32}H_{29}NO$

(*S*)-1-[α-[(*R*)-2-(1-Naphthyl)piperidyl]benzyl]-2-naphthol

Ee >99%

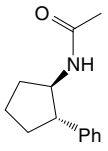
$[\alpha]_D^{25} = +194.5$ (*c* 0.3, $CHCl_3$)

Source of chirality: synthesized

Absolute configuration: *S*,*R* (assigned by NMR spectroscopic)

Javier González-Sabín, Vicente Gotor* and Francisca Rebolledo*

Tetrahedron: Asymmetry *15 (2004) 481*



$C_{13}H_{17}NO$

(1*R*,2*S*)-*N*-(2-Phenylcyclopentyl)acetamide

Ee = 97% (HPLC, Chiralcel-OD)

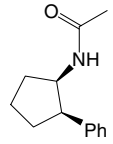
$[\alpha]_D^{20} = -39.8$ (*c* 1.00, $CHCl_3$)

Source of chirality: enzymatic resolution

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

Javier González-Sabín, Vicente Gotor* and Francisca Rebolledo*

Tetrahedron: Asymmetry *15 (2004) 481*

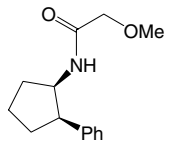


$C_{13}H_{17}NO$
(1*R*,2*R*)-*N*-(2-Phenylcyclopentyl)acetamide

Ee = 85% (HPLC, Chiralcel-OD)
$[\alpha]_D^{20} = +88.7$ (*c* 1.00, $CHCl_3$)
Source of chirality: enzymatic resolution
Absolute configuration: 1*R*,2*R*

Javier González-Sabín, Vicente Gotor* and Francisca Rebolledo*

Tetrahedron: Asymmetry *15 (2004) 481*

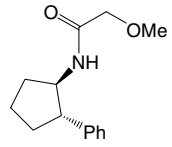


$C_{14}H_{19}NO_2$
(1*R*,2*R*)-*N*-(2-Phenylcyclopentyl)methoxyacetamide

Ee >99% (HPLC, Chiralcel-OD)
$[\alpha]_D^{20} = +54.1$ (*c* 1.00, $CHCl_3$)
Source of chirality: enzymatic resolution
Absolute configuration: 1*R*,2*R*

Javier González-Sabín, Vicente Gotor* and Francisca Rebolledo*

Tetrahedron: Asymmetry *15 (2004) 481*

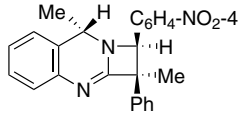


$C_{14}H_{19}NO_2$
(1*R*,2*S*)-*N*-(2-Phenylcyclopentyl)methoxyacetamide

Ee >99% (HPLC, Chiralcel-OD)
$[\alpha]_D^{20} = -44.0$ (*c* 1.00, $CHCl_3$)
Source of chirality: enzymatic resolution
Absolute configuration: 1*R*,2*S*

Mateo Alajarín,* Angel Vidal, Fulgencio Tovar and M. Carmen Ramírez de Arellano

Tetrahedron: Asymmetry *15 (2004) 489*

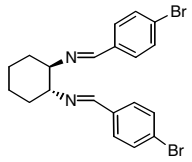


$C_{24}H_{21}N_3O_2$
(1*S*,2*R*,8*S*)-1,2-*cis*-1,8-*trans*-2,8-Dimethyl-1-(4-nitrophenyl)-2-phenyl-1,2-dihydroazeto[2,1-*b*]quinazoline

$[\alpha]_D = +216.0$ (*c* 5×10^{-3}, CH_2Cl_2)
Source of chirality: resolution of the starting material
Absolute configuration: (1*S*,2*R*,8*S*)

Anne Brethon, Joël J. E. Moreau* and Michel Wong Chi Man

Tetrahedron: Asymmetry *15 (2004) 495*

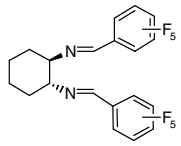


$[\alpha]_D^{25} = -266.5$ (c 1.23, $CHCl_3$)
Source of chirality:(1*R*,2*R*)-diaminocyclohexane

$C_{20}H_{20}N_2Br_2$
(1*R*,2*R*)-*N*,*N*′-Di(4′-bromobenzylidene)-1,2-diaminocyclohexane

Anne Brethon, Joël J. E. Moreau* and Michel Wong Chi Man

Tetrahedron: Asymmetry *15 (2004) 495*

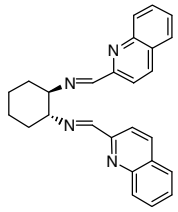


$[\alpha]_D^{25} = -172$ (c 1.03, CH_2Cl_2)
Source of chirality:(1*R*,2*R*)-diaminocyclohexane

$C_{20}H_{12}N_2F_{10}$
(1*R*,2*R*)-*N*,*N*′-Di(2′,3′4′,5′,6′-pentafluorobenzylidene)-1,2-diaminocyclohexane

Anne Brethon, Joël J. E. Moreau* and Michel Wong Chi Man

Tetrahedron: Asymmetry *15 (2004) 495*

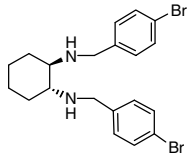


$[\alpha]_D^{25} = +90.3$ (c 1, CH_2Cl_2)
Source of chirality:(1*R*,2*R*)-diaminocyclohexane

$C_{26}H_{24}N_4$
(1*R*,2*R*)-*N*,*N*′-Di(quinoline-2′-methylidene)-1,2-diaminocyclohexane

Anne Brethon, Joël J. E. Moreau* and Michel Wong Chi Man

Tetrahedron: Asymmetry *15 (2004) 495*

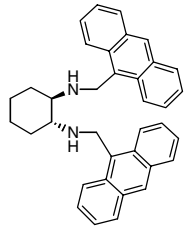


$[\alpha]_D^{25} = -39.6$ (c 1.12, $CHCl_3$)
Source of chirality:(1*R*,2*R*)-*N*,*N*′-di(4′-bromobenzylidene)-1,2-diaminocyclohexane

$C_{20}H_{24}N_2Br_2$
(1*R*,2*R*)-*N*,*N*′-Di(4′-bromobenzyl)-1,2-diaminocyclohexane

Anne Brethon, Joël J. E. Moreau* and Michel Wong Chi Man

Tetrahedron: Asymmetry *15 (2004) 495*



$C_{36}H_{34}N_2$

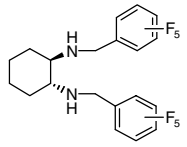
(1*R*,2*R*)-*N*,*N*′-Di(anthracenyl-9′-methylene)-1,2-diaminocyclohexane

$[\alpha]_D^{25} = +242.9$ (*c* 1.14, $CHCl_3$)

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

Anne Brethon, Joël J. E. Moreau* and Michel Wong Chi Man

Tetrahedron: Asymmetry *15 (2004) 495*



$C_{20}H_{16}N_2F_{10}$

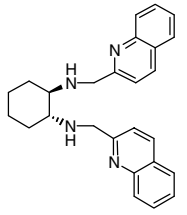
(1*R*,2*R*)-*N*,*N*′-Di(2′,3′,4′,5′,6′-pentafluorobenzyl)-1,2-diaminocyclohexane

$[\alpha]_D^{25} = -55$ (*c* 1.04, CH_2Cl_2)

Source of chirality: (1*R*,2*R*)-*N*,*N*′-di(2′,3′4′,5′,6′-pentafluorobenzylidene)-1,2-diaminocyclohexane

Anne Brethon, Joël J. E. Moreau* and Michel Wong Chi Man

Tetrahedron: Asymmetry *15 (2004) 495*



$C_{26}H_{28}N_4$

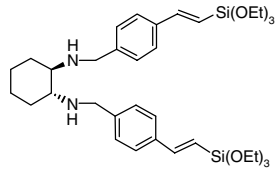
(1*R*,2*R*)-*N*,*N*′-Di(quinoline-2′-methylene)-1,2-diaminocyclohexane

$[\alpha]_D^{25} = -42.7$ (*c* 1.1, CH_2Cl_2)

Source of chirality: (1*R*,2*R*)-*N*,*N*′-di(quinoline-2′-methylidene)-1,2-diaminocyclohexane

Anne Brethon, Joël J. E. Moreau* and Michel Wong Chi Man

Tetrahedron: Asymmetry *15 (2004) 495*



$C_{36}H_{58}N_{20}O_6Si_2$

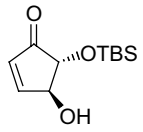
(1*R*,2*R*)-*N*,*N*′-Bis(4′-(triethoxysilylethenyl)benzyl)-1,2-diaminocyclohexane

$[\alpha]_D^{25} = -30.3$ (*c* 0.33, THF)

Source of chirality: (1*R*,2*R*)-*N*,*N*′-di(4′-bromobenzyl)-1,2-diaminocyclohexane

Zac C. Etheridge and Stephen Caddick*

Tetrahedron: Asymmetry *15 (2004) 503*

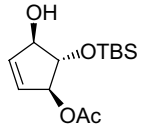


$[\alpha]_D^{25} = +91.8$ (*c* 1.14, $CHCl_3$)
Source of chirality: lipase-mediated kinetic resolution
Absolute configuration: 4*S*,5*R*

$C_{11}H_{20}O_3Si$
(4*S*,5*R*)-4-Hydroxy-5-^{t}butyldimethylsilyoxy-cyclopent-2-en-1-one

Zac C. Etheridge and Stephen Caddick*

Tetrahedron: Asymmetry *15 (2004) 503*

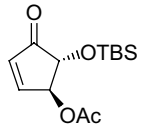


$[\alpha]_D^{30} = +61.5$ (*c* 1.0, $CHCl_3$)
Source of chirality: starting material and diastereoselective reduction
Absolute configuration: 3*S*,4*R*,5*R*

$C_{13}H_{24}O_4Si$
(3*S*,4*R*,5*R*)-3-Acetoxy-4-^{t}butyldimethysilyloxy-5-hydroxy-cyclopent-2-ene

Zac C. Etheridge and Stephen Caddick*

Tetrahedron: Asymmetry *15 (2004) 503*

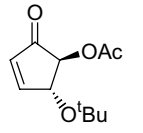


$[\alpha]_D^{30} = +145.4$ (*c* 1.02, $CHCl_3$)
Source of chirality: lipase-mediated kinetic resolution
Absolute configuration: 4*S*,5*R*

$C_{13}H_{22}O_4Si$
(4*S*,5*R*)-4-Acetoxy-5-^{t}butyldimethylsilyoxy-cyclopenten-1-one

Zac C. Etheridge and Stephen Caddick*

Tetrahedron: Asymmetry *15 (2004) 503*

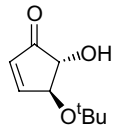


$[\alpha]_D^{28} = -142.3$ (*c* 1.0, $CHCl_3$)
Source of chirality: lipase-mediated kinetic resolution
Absolute configuration: 4*R*,5*S*

$C_{11}H_{16}O_4Si$
(4*R*,5*S*)-4-^{t}Butoxy-5-acetoxy-cyclopent-2-en-1-one

Zac C. Etheridge and Stephen Caddick*

Tetrahedron: Asymmetry *15 (2004) 503*



$C_9H_{14}O_3$

(4*S*,5*R*)-4-^{t}Butoxy-5-hydroxy-cyclopenten-1-one

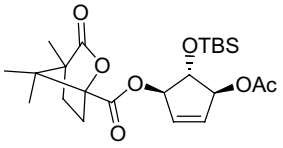
$[\alpha]_D^{28} = +25.7$ (*c* 1.0, $CHCl_3$)

Source of chirality: lipase-mediated kinetic resolution

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

Zac C. Etheridge and Stephen Caddick*

Tetrahedron: Asymmetry *15 (2004) 503*



$C_{23}H_{36}O_7Si$

(3*S*,4*R*,5*R*)-3-Acetoxy-4-^{t}butyldimethylsilyloxy-5-camphanoxycyclopent-2-ene

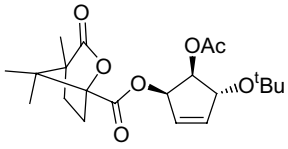
$[\alpha]_D^{18} = -28.9$ (*c* 1.4, $CHCl_3$)

Source of chirality: starting materials

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

Zac C. Etheridge and Stephen Caddick*

Tetrahedron: Asymmetry *15 (2004) 503*



$C_{21}H_{30}O_7$

(3*S*,4*R*,5*R*)-3-Acetoxy-4-^{t}butyldimethylsilyloxy-5-camphanoxycyclopent-2-ene

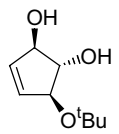
$[\alpha]_D^{18} = -13.1$ (*c* 1.0, $CHCl_3$)

Source of chirality: starting materials

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

Zac C. Etheridge and Stephen Caddick*

Tetrahedron: Asymmetry *15 (2004) 503*



$C_9H_{16}O_3$

(3*S*,4*S*,5*R*)-3-^{t}Butoxy-4,5-dihydroxy-cyclopent-1-ene

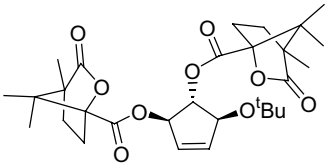
$[\alpha]_D^{18} = +11.4$ (*c* 0.35, $CHCl_3$)

Source of chirality: starting material and diastereoselective reduction

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

Zac C. Etheridge and Stephen Caddick*

Tetrahedron: Asymmetry *15 (2004) 503*



$C_{29}H_{44}O_9N$

(3*S*,4*R*,5*R*)-3-^{t}Butoxy-4,5-biscamphanoxy-cyclopent-2-ene

$[\alpha]_D^{18} = +24.2$ (*c* 0.75, $CHCl_3$)

Source of chirality: starting materials

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

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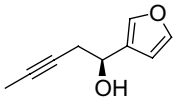
Tetrahedron: Asymmetry *15 (2004) 509*



$C_9H_{10}O_2$

(−)-1-(3-Furyl)pent-3-yn-1-ol

Ee >99%

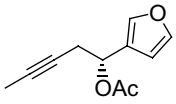
$[\alpha]_D^{24} = -32.8$ (*c* 1, $CHCl_3$)

Source of chirality: enzymatic resolution

Absolute configuration: *S*

Laurent Commeiras and Jean-Luc Parrain*

Tetrahedron: Asymmetry *15 (2004) 509*



$C_{11}H_{12}O_3$

(+)-1-(3-Furyl)pent-3-yn-1-yl acetate

Ee = 92%

$[\alpha]_D^{24} = +41.4$ (*c* 1, $CHCl_3$)

Source of chirality: enzymatic resolution

Absolute configuration: *R*

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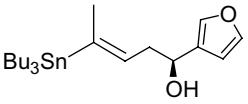
Tetrahedron: Asymmetry *15 (2004) 509*



$C_{21}H_{38}O_2Sn$

(−)-(*E*)-4-Tributylstannyl-1-(3-furyl)pent-3-en-1-ol

Ee = not determined

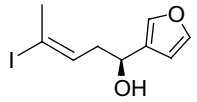
$[\alpha]_D^{24} = -11.7$ (*c* 1, $CHCl_3$)

Source of chirality: enzymatic resolution

Absolute configuration: *S*

Laurent Commeiras and Jean-Luc Parrain*

Tetrahedron: Asymmetry *15 (2004) 509*



$C_9H_{11}IO_2$

(−)-(*E*)-1-(3-Furyl)-4-iodopent-3-en-1-ol

Ee = not determined

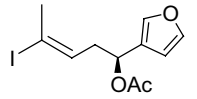
$[\alpha]_D^{24} = -13.0$ (*c* 1, $CHCl_3$)

Source of chirality: enzymatic resolution

Absolute configuration: *S*

Laurent Commeiras and Jean-Luc Parrain*

Tetrahedron: Asymmetry *15 (2004) 509*



$C_{11}H_{13}IO_3$

(−)-(*E*)-1-(3-Furyl)-4-iodopent-3-en-1-yl acetate

Ee >99%

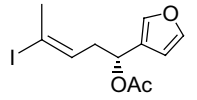
$[\alpha]_D^{24} = -26.6$ (*c* 1, $CHCl_3$)

Source of chirality: enzymatic resolution

Absolute configuration: *S*

Laurent Commeiras and Jean-Luc Parrain*

Tetrahedron: Asymmetry *15 (2004) 509*



$C_{11}H_{13}IO_3$

(+)-(*E*)-1-(3-Furyl)-4-iodopent-3-en-1-yl acetate

Ee = 92%

$[\alpha]_D^{24} = +25.0$ (*c* 1, $CHCl_3$)

Source of chirality: enzymatic resolution

Absolute configuration: *R*

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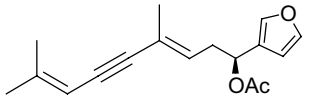
Tetrahedron: Asymmetry *15 (2004) 509*



$C_{17}H_{20}O_3$

(−)-Furocaulerpin

Ee = not determined

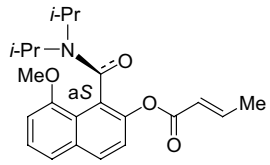
$[\alpha]_D^{24} = -14.6$ (*c* 1, $CHCl_3$)

Source of chirality: enzymatic resolution

Absolute configuration: *S*

Wei-Min Dai,* Yan Zhang and Ye Zhang

Tetrahedron: Asymmetry *15 (2004) 525*



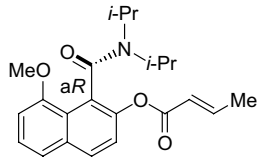
Ee = 100% (HPLC)
$[\alpha]_D^{25} = +59.9$ (c 0.81, $CHCl_3$)
Source of chirality: asymmetric reaction (AD) and HPLC separation
Absolute configuration: a*S*

$C_{22}H_{27}NO_4$

(+)-(a*S*)-*N*,*N*-Diisopropyl-2-[2′-(*E*)-butenoyloxy]-8-methoxy-1-naphthamide

Wei-Min Dai,* Yan Zhang and Ye Zhang

Tetrahedron: Asymmetry *15 (2004) 525*



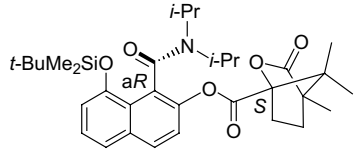
Ee = 100% (HPLC)
$[\alpha]_D^{25} = -59.4$ (c 0.81, $CHCl_3$)
Source of chirality: HPLC separation
Absolute configuration: a*R*

$C_{22}H_{27}NO_4$

(−)-(a*R*)-*N*,*N*-Diisopropyl-2-[2′-(*E*)-butenoyloxy]-8-methoxy-1-naphthamide

Wei-Min Dai,* Yan Zhang and Ye Zhang

Tetrahedron: Asymmetry *15 (2004) 525*



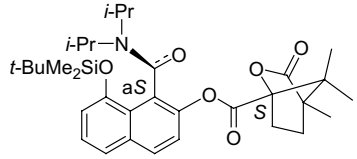
Ee = 100% (HPLC)
$[\alpha]_D^{25} = -88.4$ (c 1.0, $CHCl_3$)
Source of chirality: chemical resolution
Absolute configuration: a*R*,*S*

$C_{33}H_{47}NO_6Si$

(−)-(a*R*,1′*S*,4′*R*)-*N*,*N*-Diisopropyl-8-(*tert*-butyldimethylsilyloxy)-2-{4′,7′,7′-trimethyl-3′-oxo-2′-oxabicyclo-[2.2.1]heptanecarbonyloxy}-1-naphthamide

Wei-Min Dai,* Yan Zhang and Ye Zhang

Tetrahedron: Asymmetry *15 (2004) 525*



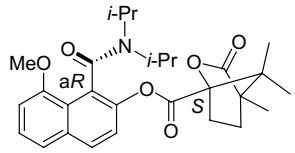
Ee = 100% (HPLC, X-ray)
$[\alpha]_D^{25} = +114.5$ (c 1.0, $CHCl_3$)
Source of chirality: chemical resolution
Absolute configuration: a*S*,*S*

$C_{33}H_{47}NO_6Si$

(+)-(a*S*,1′*S*,4′*R*)-*N*,*N*-Diisopropyl-8-(*tert*-butyldimethylsilyloxy)-2-{4′,7′,7′-trimethyl-3′-oxo-2′-oxabicyclo-[2.2.1]heptanecarbonyloxy}-1-naphthamide

Wei-Min Dai,* Yan Zhang and Ye Zhang

Tetrahedron: Asymmetry *15 (2004) 525*



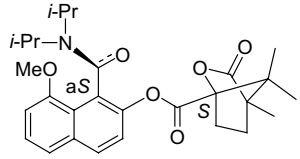
Ee = 100% (HPLC)
$[\alpha]_D^{25} = -7.8$ (*c* 0.6, $CHCl_3$)
Source of chirality: chemical resolution
Absolute configuration: a*R*,*S*

$C_{28}H_{35}NO_6$

(−)-(a*R*,1′*S*,4′*R*)-*N*,*N*-Diisopropyl-8-methoxy-2-{4′,7′,7′-trimethyl-3′-oxo-2′-oxabicyclo[2.2.1]heptanecarbonyloxy}-1-naphthamide

Wei-Min Dai,* Yan Zhang and Ye Zhang

Tetrahedron: Asymmetry *15 (2004) 525*



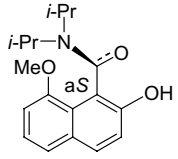
Ee = 100% (HPLC)
$[\alpha]_D^{25} = +21.7$ (*c* 0.5, $CHCl_3$)
Source of chirality: chemical resolution
Absolute configuration: a*S*,*S*

$C_{28}H_{35}NO_6$

(+)-(a*S*,1′*S*,4′*R*)-*N*,*N*-Diisopropyl-8-methoxy-2-{4′,7′,7′-trimethyl-3′-oxo-2′-oxabicyclo[2.2.1]heptanecarbonyloxy}-1-naphthamide

Wei-Min Dai,* Yan Zhang and Ye Zhang

Tetrahedron: Asymmetry *15 (2004) 525*



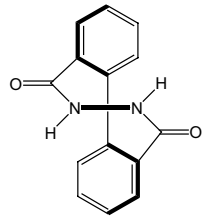
Ee = 86.8% (HPLC)
$[\alpha]_D^{25} = +20.7$ (*c* 1.0, $CHCl_3$)
Source of chirality: chemical resolution and asymmetric reaction (AD)
Absolute configuration: a*S*

$C_{18}H_{23}NO_3$

(+)-(a*S*)-*N*,*N*-Diisopropyl-2-hydroxy-8-methoxy-1-naphthamide

Denis A. Lenev,* Konstantin A. Lyssenko, Denis G. Golovanov, Oliver Weingart, Volker Buß and Remir G. Kostyanovsky

Tetrahedron: Asymmetry *15 (2004) 537*



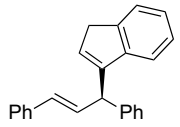
Configuration: (*R*)-(+), estimated from X-ray analysis of diastereomeric derivative
Specific rotation: (*c* 0.7 MeCN, 15 °C)
$[\alpha]_{578} = 144$, $[\alpha]_{546} = 171$, $[\alpha]_{436} = 386$, $[\alpha]_{406} = 483$, $[\alpha]_{366} = 834$
Circular dichroism: λ_{max}, nm, $\Delta\varepsilon$, $M^{-1}\,cm^{-1}$ (3.5×10^{-4} M, EtOH, cell 1 mm): 241, 29.8; 221, 42
Enantiomeric purity: >90%, estimated from ^1H NMR with chiral shift reagent Eu(tfc)$_3$

$C_{14}H_{10}N_2O_2$

6,7-Dihydro-dibenzo[*d*,*f*][1,2]diazocine-5,8-dione

Tamio Hayashi,* Toshimasa Suzuka, Atsushi Okada and Motoi Kawatsura

Tetrahedron: Asymmetry *15 (2004) 545*



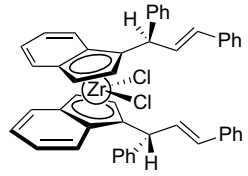
$C_{24}H_{20}$

(*R*)-1,3-Diphenyl-3-(3*H*-inden-1-yl)propene

Ee >99% (by preparation method)
$[\alpha]_D^{20} = -74.3$ (*c* 1.02, $CHCl_3$)
Source of chirality: chiral catalyst
Absolute configuration: *R*

Tamio Hayashi,* Toshimasa Suzuka, Atsushi Okada and Motoi Kawatsura

Tetrahedron: Asymmetry *15 (2004) 545*



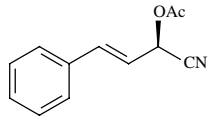
$C_{48}H_{38}Cl_2Zr$

Dichloro-bis[1-{(*R*)-1,3-diphenyl-2-propenyl}indenyl]zirconium(IV)

Ee >99% (by preparation method)
$[\alpha]_D^{20} = +95.2$ (*c* 0.96, $CHCl_3$)
Source of chirality: chiral catalyst
Absolute configuration: *R*,*R*

Nitin W. Fadnavis,* Kasiraman R. Radhika and Kallakunta Vasantha Madhuri

Tetrahedron: Asymmetry *15 (2004) 549*



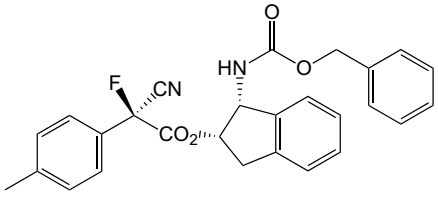
$C_{12}H_{11}NO_2$

(*R*)-2-Acetoxy-4-phenyl-(*E*)-but-3-enenitrile

Ee >99%
$[\alpha]_D^{25} = -22$ (*c* 2.0, $CHCl_3$)
Source of chirality: enzymatic resolution
Absolute configuration: *R*

Tomoya Fujiwara, Masaki Sasaki, Kenji Omata, Chizuko Kabuto, Kuninobu Kabuto* and Yoshio Takeuchi

Tetrahedron: Asymmetry *15 (2004) 555*



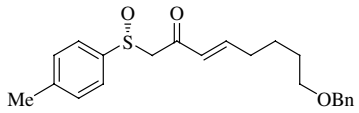
$C_{27}H_{23}FN_2O_4$

(1*R*,2*S*)-*N*-Carbobenzyloxy-*cis*-1-amino-2-indanyl (*S*)-2-cyano-2-fluoro-2-*p*-tolylacetate

Ee = 100%
$[\alpha]_D^{24} = +92.4$ (*c* 1.0, $CHCl_3$)

Sadagopan Raghavan* and T. Sreekanth

Tetrahedron: Asymmetry *15 (2004) 565*



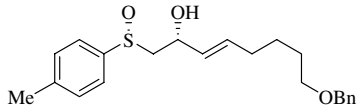
De >95%
$[\alpha]_D^{25} = +145.0$ (*c* 1, acetone)
Source of chirality: asymmetric synthesis
Absolute configuration: ($1R_S$)

$C_{22}H_{26}O_3S$

8-Benzyloxy-1-(R_S)-(4-methylbenzylsulfinyl)-*E*-3-octen-2-one

Sadagopan Raghavan* and T. Sreekanth

Tetrahedron: Asymmetry *15 (2004) 565*



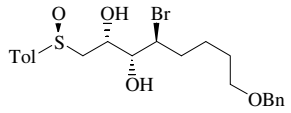
De >95%
$[\alpha]_D^{25} = +90.5$ (*c* 1, acetone)
Source of chirality: asymmetric synthesis
Absolute configuration: ($1R_S$,2*R*)

$C_{22}H_{28}O_3S$

8-Benzyloxy-1-(R_S)-(4-methylphenylsulfinyl)-(2*R*,3*E*)-3-octen-2-ol

Sadagopan Raghavan* and T. Sreekanth

Tetrahedron: Asymmetry *15 (2004) 565*



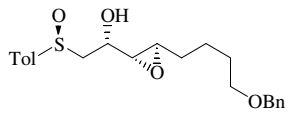
De >95%
$[\alpha]_D^{25} = -58.5$ (*c* 1.0, acetone)
Source of chirality: asymmetric synthesis
Absolute configuration: ($1S_S$,2*R*,3*R*,4*S*)

$C_{22}H_{29}O_4BrS$

8-Benzyloxy-4-bromo-1-(S_S)-(4-methylphenylsulfinyl)-(2*R*,3*R*,4*S*)-octane-2,3-diol

Sadagopan Raghavan* and T. Sreekanth

Tetrahedron: Asymmetry *15 (2004) 565*



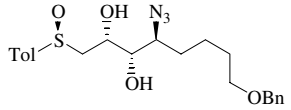
De >95%
$[\alpha]_D^{25} = -102.0$ (*c* 0.8, acetone)
Source of chirality: asymmetric synthesis
Absolute configuration: ($1R$,$2S_S$,2*S*,3*S*)

$C_{22}H_{28}O_4S$

1-[(3*S*)-(4-Benzyloxybutyl(2*S*)-oxiranyl]-2-(S_S)-(4-methylphenylsulfinyl)-(1*R*)-ethan-1-ol

Sadagopan Raghavan* and T. Sreekanth

Tetrahedron: Asymmetry *15 (2004) 565*



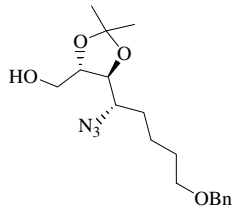
De >95%
$[\alpha]_D^{25} = -90.5$ (*c* 0.8, acetone)
Source of chirality: asymmetric synthesis
Absolute configuration: ($1S_S$,2*R*,3*S*,4*S*)

$C_{22}H_{29}N_3O_4S$

4-Azido-8-benzyloxy-1-(S_S)-(4-methylphenylsulfinyl)-(2*R*,3*S*,4*S*)-octane-2,3-diol

Sadagopan Raghavan* and T. Sreekanth

Tetrahedron: Asymmetry *15 (2004) 565*



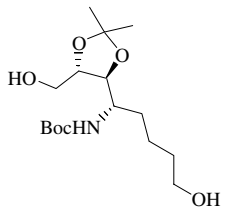
De >95%
$[\alpha]_D^{25} = -30.5$ (*c* 0.6, acetone)
Source of chirality: asymmetric synthesis
Absolute configuration: (1*S*,4*S*,5*S*)

$C_{18}H_{27}N_3O_4$

5-[1-Azido-5-benzyloxy-(1*S*)-pentyl]-2,2-dimethyl-(4*S*,5*S*)-1,3-dioxolan-4-ylmethanol

Sadagopan Raghavan* and T. Sreekanth

Tetrahedron: Asymmetry *15 (2004) 565*



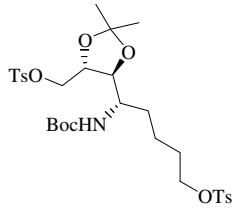
De >95%
$[\alpha]_D^{25} = -6.9$ (*c* 0.6, acetone)
Source of chirality: asymmetric synthesis
Absolute configuration: (1*S*,4*S*,5*S*)

$C_{16}H_{31}NO_6$

5-[1-*tert*-Butyloxycarbonylamido-5-[5-hydroxymethyl-2,2-dimethyl-(4*S*,5*S*)-1,3dioxolan-4-yl]-1-pentanol

Sadagopan Raghavan* and T. Sreekanth

Tetrahedron: Asymmetry *15 (2004) 565*



De >95%
$[\alpha]_D^{25} = -14.3$ (*c* 0.6, acetone)
Source of chirality: asymmetric synthesis
Absolute configuration: (1*S*,4*S*,5*S*)

$C_{30}H_{43}NO_{10}S_2$

4-[1-*tert*-Butyloxycarbonylamido-5-(4-methylphenylsulfonyloxy)-(1*S*)-pentyl]-2,2-dimethyl-5-(4-methylphenyl-sulfonyloxymethyl)-(4*S*,5*S*)-1,3-dioxolane