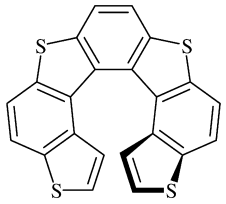
Hiroko Nakagawa *, Masashi Moriyama, Tomoko Umahashi, Yuichi Masuoka, Koh-ichi Yamada

Tetrahedron: Asymmetry *20 (2009) 1715*



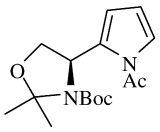
$C_{22}H_{10}S_4$

(*M*)-Bisthieno[3′,2′:4,5]benzo[1,2-b:4,3-b′]di[1]benzothiophene

$[\alpha]_{500}^{21} = -2100$ (*c* = 0.19, $CHCl_3$)
Source of chirality: X-ray crystallography
Absolute configuration: (*M*)

Kaushik Sarkar, Sovan K. Singha, Shital K. Chattopadhyay *

Tetrahedron: Asymmetry *20 (2009) 1719*



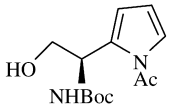
$C_{16}H_{24}N_2O_4$

(*R*)-*tert*-Butyl 4-(1-acetyl-1*H*-pyrrol-2-yl)-2,2-dimethyloxazolidine-3-carboxylate

$[\alpha]_D = -13$ (*c* 1.0, $CHCl_3$)
Source of chirality: L-serine
Absolute configuration: (4*R*)

Kaushik Sarkar, Sovan K. Singha, Shital K. Chattopadhyay *

Tetrahedron: Asymmetry *20 (2009) 1719*



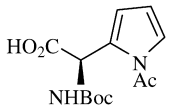
$C_{13}H_{20}N_2O_4$

(*R*)-*tert*-Butyl 1-(1-acetyl-1*H*-pyrrol-2-yl)-2-hydroxyethylcarbamate

$[\alpha]_D = -50$ (*c* 1.0, $CHCl_3$)
Source of chirality: L-serine
Absolute configuration: (1*R*)

Kaushik Sarkar, Sovan K. Singha, Shital K. Chattopadhyay *

Tetrahedron: Asymmetry *20 (2009) 1719*



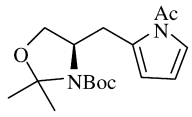
$C_{13}H_{18}N_2O_5$

(*R*)-2-(1-Acetyl-1*H*-pyrrol-2-yl)-2-(*tert*-butoxycarbonyl)acetic acid

$[\alpha]_D = -106$ (*c* 1.0, $CHCl_3$)
Source of chirality: L-serine
Absolute configuration: (2*R*)

Kaushik Sarkar, Sovan K. Singha, Shital K. Chattopadhyay *

Tetrahedron: Asymmetry *20 (2009) 1719*



$[\alpha]_D$ = + 56 (*c* 1.0, $CHCl_3$)
Source of chirality: L-aspartic acid
Absolute configuration: (4*R*)

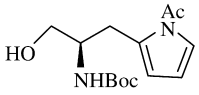
$C_{17}H_{26}N_2O_4$

(*R*)-*tert*-Butyl 4-((1-acetyl-1*H*-pyrrol-2-yl)methyl)-2,2-dimethyloxazolidine-3-carboxylate

---

Kaushik Sarkar, Sovan K. Singha, Shital K. Chattopadhyay *

Tetrahedron: Asymmetry *20 (2009) 1719*



$[\alpha]_D$ = −38 (*c* 1.0, $CHCl_3$)
Source of chirality: L-aspartic acid
Absolute configuration: (2*R*)

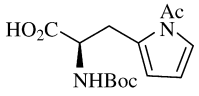
$C_{14}H_{22}N_2O_4$

(*R*)-*tert*-Butyl 3-(1-acetyl-1*H*-pyrrol-2-yl)-1-hydroxypropan-2-ylcarbamate

---

Kaushik Sarkar, Sovan K. Singha, Shital K. Chattopadhyay *

Tetrahedron: Asymmetry *20 (2009) 1719*



$[\alpha]_D$ = + 16 (*c* 1.0, $CHCl_3$)
Source of chirality: L-aspartic acid
Absolute configuration: (2*R*)

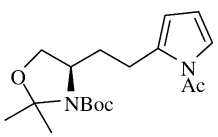
$C_{14}H_{20}N_2O_5$

(*R*)-3-(1-Acetyl-1*H*-pyrrol-2-yl)-2-(*tert*-butoxycarbonyl)propanoic acid

---

Kaushik Sarkar, Sovan K. Singha, Shital K. Chattopadhyay *

Tetrahedron: Asymmetry *20 (2009) 1719*



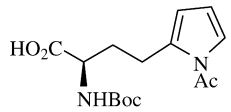
$[\alpha]_D$ = + 18 (*c* 1.0, $CHCl_3$)
Source of chirality: L-glutamic acid
Absolute configuration: (4*R*)

$C_{18}H_{28}N_2O_4$

(*R*)-*tert*-Butyl 4-(2-(1-acetyl-1*H*-pyrrol-2-yl)ethyl)-2,2-dimethyloxazolidine-3-carboxylate

Kaushik Sarkar, Sovan K. Singha, Shital K. Chattopadhyay *

Tetrahedron: Asymmetry *20 (2009) 1719*



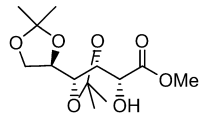
$[\alpha]_D = -62$ (*c* 1.0, $CHCl_3$)
Source of chirality: L-glutamic acid
Absolute configuration: (2*R*)

$C_{15}H_{22}N_2O_5$

(*R*)-4-(1-Acetyl-1*H*-pyrrol-2-yl)-2-(*tert*-butoxycarbonyl)butanoic acid

Jhillu Singh Yadav *, Batta Madhava Rao, Kodepelly Sanjeeva Rao

Tetrahedron: Asymmetry *20 (2009) 1725*



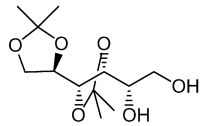
$[\alpha]_D^{25} = +10.2$ (*c* 1.0, $CHCl_3$)
Source of chirality: stereoselective synthesis
Absolute configuration: (2*R*,4*R*,4′*R*,5*R*)

$C_{13}H_{22}O_7$

(*R*)-Methyl 2-hydroxy-2-((4*R*,4′*R*,5*R*)-2,2,2′,2′-tetramethyl-4,4′-bi(1,3-dioxolan)-5-yl)acetate

Jhillu Singh Yadav *, Batta Madhava Rao, Kodepelly Sanjeeva Rao

Tetrahedron: Asymmetry *20 (2009) 1725*



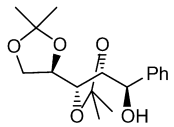
$[\alpha]_D^{25} = +7.2$ (*c* 1.75, $CHCl_3$)
Source of chirality: stereoselective synthesis
Absolute configuration: (2*R*,4*R*,4′*R*,5*R*)

$C_{12}H_{22}O_6$

(*S*)-1-((4*R*,4′*R*,5*R*)-2,2,2′,2′-Tetramethyl-4,4′-bi(1,3-dioxolan)-5-yl)ethane-1,2-diol

Jhillu Singh Yadav *, Batta Madhava Rao, Kodepelly Sanjeeva Rao

Tetrahedron: Asymmetry *20 (2009) 1725*



$[\alpha]_D^{25} = +15.8$ (*c* 1.0, $CHCl_3$)
Source of chirality: stereoselective synthesis
Absolute configuration: (2*R*,4*R*,4′*R*,5*R*)

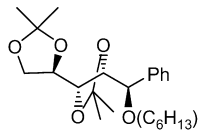
$C_{17}H_{24}O_5$

(*R*)-Phenyl((4*R*,4′*R*,5*R*)-2,2,2′,2′-tetramethyl-4,4′-bi(1,3-dioxolan)-5-yl)methanol

Jhillu Singh Yadav*, Batta Madhava Rao, Kodepelly Sanjeeva Rao

Tetrahedron: Asymmetry *20 (2009) 1725*

$[\alpha]_D^{25} = +29.3$ (*c* 7.85, $CHCl_3$)
Source of chirality: stereoselective synthesis
Absolute configuration: (2*R*,4*R*,4′*R*,5*R*)



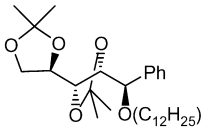
$C_{23}H_{36}O_5$

(4*R*,4′*R*,5*R*)-5-((*R*)-Hexyloxy(phenyl)methyl)-2,2,2′,2′-tetramethyl-4,4′-bi(1,3-dioxolane)

Jhillu Singh Yadav*, Batta Madhava Rao, Kodepelly Sanjeeva Rao

Tetrahedron: Asymmetry *20 (2009) 1725*

$[\alpha]_D^{25} = +26.5$ (*c* 4.1, $CHCl_3$)
Source of chirality: stereoselective synthesis
Absolute configuration: (2*R*,4*R*,4′*R*,5*R*)



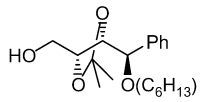
$C_{29}H_{48}O_5$

(4*R*,4′*R*,5*R*)-5-((*R*)-Dodecyloxy(phenyl)methyl)-2,2,2′,2′-tetramethyl-4,4′-bi(1,3-dioxolane)

Jhillu Singh Yadav*, Batta Madhava Rao, Kodepelly Sanjeeva Rao

Tetrahedron: Asymmetry *20 (2009) 1725*

$[\alpha]_D^{25} = +43.9$ (*c* 1.65. $CHCl_3$)
Source of chirality: stereoselective synthesis
Absolute configuration: (4*R*,4′*R*,5*R*)



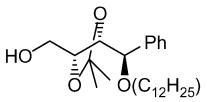
$C_{19}H_{30}O_4$

((4*R*,5*R*)-5-((*R*)-Hexyloxy(phenyl)methyl)-2,2-dimethyl-1,3-dioxolan-4-yl)methanol

Jhillu Singh Yadav*, Batta Madhava Rao, Kodepelly Sanjeeva Rao

Tetrahedron: Asymmetry *20 (2009) 1725*

$[\alpha]_D^{25} = +31.5$ (*c* 1.40, $CHCl_3$)
Source of chirality: stereoselective synthesis
Absolute configuration: (4*R*,4′*R*,5*R*)



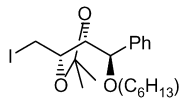
$C_{25}H_{42}O_4$

((4*R*,5*R*)-5-((*R*)-Dodecyloxy(phenyl)methyl)-2,2-dimethyl-1,3-dioxolan-4-yl)methanol

Jhillu Singh Yadav *, Batta Madhava Rao, Kodepelly Sanjeeva Rao

Tetrahedron: Asymmetry *20 (2009) 1725*

$[\alpha]_D^{25} = +53.2$ (*c* 1.75, $CHCl_3$)
Source of chirality: stereoselective synthesis
Absolute configuration: (4*R*,4′*R*,5*R*)



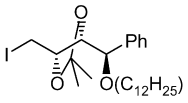
$C_{19}H_{29}IO_3$

(4*R*,5*S*)-4-((*R*)-Hexyloxy(phenyl)methyl)-5-(iodomethyl)-2,2-dimethyl-1,3-dioxolane

Jhillu Singh Yadav *, Batta Madhava Rao, Kodepelly Sanjeeva Rao

Tetrahedron: Asymmetry *20 (2009) 1725*

$[\alpha]_D^{25} = +33.3$ (*c* 0.90, $CHCl_3$)
Source of chirality: stereoselective synthesis
Absolute configuration: (4*R*,4′*R*,5*R*)



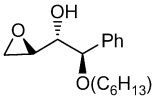
$C_{25}H_{41}IO_3$

(4*R*,5*S*)-4-((*R*)-Dodecyloxy(phenyl)methyl)-5-(iodomethyl)-2,2-dimethyl-1,3-dioxolane

Jhillu Singh Yadav *, Batta Madhava Rao, Kodepelly Sanjeeva Rao

Tetrahedron: Asymmetry *20 (2009) 1725*

$[\alpha]_D^{25} = +28.0$ (*c* 0.25, $CHCl_3$)
Source of chirality: stereoselective synthesis
Absolute configuration: (4*R*,4′*R*,5*R*)



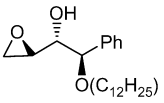
$C_{16}H_{24}O_3$

(1*R*,2*R*)-2-(Hexyloxy)-1-((*R*)-oxiran-2-yl)-2-phenylethanol

Jhillu Singh Yadav *, Batta Madhava Rao, Kodepelly Sanjeeva Rao

Tetrahedron: Asymmetry *20 (2009) 1725*

$[\alpha]_D^{25} = -34$ (*c* 1.0, $CHCl_3$)
Source of chirality: stereoselective synthesis
Absolute configuration: (4*R*,4′*R*,5*R*)



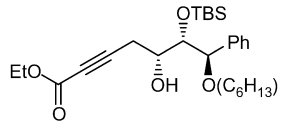
$C_{22}H_{36}O_3$

(1*R*,2*R*)-2-(Dodecyloxy)-1-((*R*)-oxiran-2-yl)-2-phenylethanol

Jhillu Singh Yadav*, Batta Madhava Rao, Kodepelly Sanjeeva Rao

Tetrahedron: Asymmetry *20 (2009) 1725*

$[\alpha]_D^{25} = +71.0$ (*c* 1.0, $CHCl_3$)
Source of chirality: stereoselective synthesis
Absolute configuration: (5*R*,6*S*,7*R*)



$C_{27}H_{44}O_5Si$

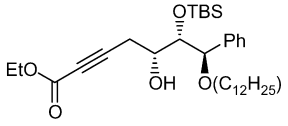
(5*R*,6*S*,7*R*)-Ethyl 6-(*tert*-butyldimethylsilyloxy)-7-(hexyloxy)-5-hydroxy-7-phenylhept-2-ynoate

---

Jhillu Singh Yadav*, Batta Madhava Rao, Kodepelly Sanjeeva Rao

Tetrahedron: Asymmetry *20 (2009) 1725*

$[\alpha]_D^{25} = +54.10$ (*c* 1.0, $CHCl_3$)
Source of chirality: stereoselective synthesis
Absolute configuration: (5*R*,6*S*,7*R*)



$C_{33}H_{56}O_5Si$

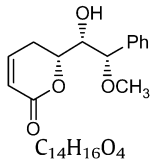
(5*R*,6*S*,7*R*)-Ethyl 6-(*tert*-butyldimethylsilyloxy)-7-(dodecyloxy)-5-hydroxy-7-phenylhept-2-ynoate

---

Jhillu Singh Yadav*, Batta Madhava Rao, Kodepelly Sanjeeva Rao

Tetrahedron: Asymmetry *20 (2009) 1725*

$[\alpha]_D^{25} = -0.8$ (*c* 0.50, $CHCl_3$)
Source of chirality: stereoselective synthesis
Absolute configuration: (5*R*,6*S*,7*R*)



$C_{14}H_{16}O_4$

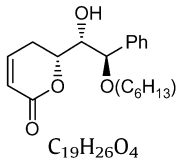
(*R*)-6-((1*S*,2*S*)-1-Hydroxy-2-methoxy-2-phenylethyl)-5,6-dihydropyran-2-one

---

Jhillu Singh Yadav*, Batta Madhava Rao, Kodepelly Sanjeeva Rao

Tetrahedron: Asymmetry *20 (2009) 1725*

$[\alpha]_D^{25} = -3.5$ (*c* 1.0, $CHCl_3$)
Source of chirality: stereoselective synthesis
Absolute configuration: (5*R*,6*S*,7*R*)



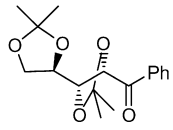
$C_{19}H_{26}O_4$

(*R*)-6-((1*S*,2*R*)-2-(Hexyloxy)-1-hydroxy-2-phenylethyl)-5,6-dihydropyran-2-one

Jhillu Singh Yadav *, Batta Madhava Rao, Kodepelly Sanjeeva Rao

Tetrahedron: Asymmetry *20 (2009) 1725*

$[\alpha]_D^{25} = +11.6$ (*c* 0.8, $CHCl_3$)
Source of chirality: stereoselective synthesis
Absolute configuration: (4*R*,4′*R*,5*R*)



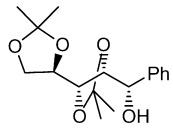
$C_{17}H_{22}O_5$

Phenyl((4*R*,4′*R*,5*S*)-2,2,2′,2′-tetramethyl-4,4′-bi(1,3-dioxolan)-5-yl)methanone

Jhillu Singh Yadav *, Batta Madhava Rao, Kodepelly Sanjeeva Rao

Tetrahedron: Asymmetry *20 (2009) 1725*

$[\alpha]_D^{25} = +15.7$ (*c* 1.0, $CHCl_3$)
Source of chirality: stereoselective synthesis
Absolute configuration: (4*R*,4′*R*,5*R*)



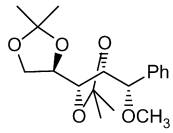
$C_{17}H_{24}O_5$

(*S*)-Phenyl((4*R*,4′*R*,5*R*)-2,2,2′,2′-tetramethyl-4,4′-bi(1,3-dioxolan)-5-yl)methanol

Jhillu Singh Yadav *, Batta Madhava Rao, Kodepelly Sanjeeva Rao

Tetrahedron: Asymmetry *20 (2009) 1725*

$[\alpha]_D^{25} = +59.6$ (*c* 0.5, $CHCl_3$)
Source of chirality: stereoselective synthesis
Absolute configuration: (4*R*,4′*R*,5*R*)



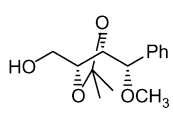
$C_{18}H_{26}O_5$

(4*R*,4′*R*,5*R*)-5-((*S*)-Methoxy(phenyl)methyl)-2,2,2′,2′-tetramethyl-4,4′-bi(1,3-dioxolane)

Jhillu Singh Yadav *, Batta Madhava Rao, Kodepelly Sanjeeva Rao

Tetrahedron: Asymmetry *20 (2009) 1725*

$[\alpha]_D^{25} = +55.9$ (*c* 2.1, $CHCl_3$)
Source of chirality: stereoselective synthesis
Absolute configuration: (4*R*,4′*R*,5*S*)



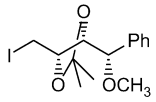
$C_{14}H_{20}O_4$

((4*R*,5*R*)-5-((*S*)-Methoxy(phenyl)methyl)-2,2-dimethyl-1,3-dioxolan-4-yl)methanol

Jhillu Singh Yadav*, Batta Madhava Rao, Kodepelly Sanjeeva Rao

Tetrahedron: Asymmetry *20 (2009) 1725*

$[\alpha]_D^{25} = +63.1$ (*c* 1.0, $CHCl_3$)
Source of chirality: stereoselective synthesis
Absolute configuration: (4*R*,4′*R*,5*S*)



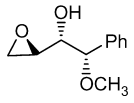
$C_{14}H_{19}IO_3$

(4*S*,5*R*)-4-(Iodomethyl)-5-((*S*)-methoxy(phenyl)methyl)-2,2-dimethyl-1,3-dioxolane

Jhillu Singh Yadav*, Batta Madhava Rao, Kodepelly Sanjeeva Rao

Tetrahedron: Asymmetry *20 (2009) 1725*

$[\alpha]_D^{25} = +36.9$ (*c* 2.9, $CHCl_3$)
Source of chirality: stereoselective synthesis
Absolute configuration: (4*R*,4′*R*,5*S*)



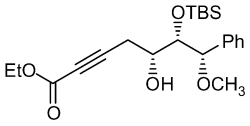
$C_{11}H_{14}O_3$

(1*R*,2*S*)-2-Methoxy-1-((*R*)-oxiran-2-yl)-2-phenylethanol

Jhillu Singh Yadav*, Batta Madhava Rao, Kodepelly Sanjeeva Rao

Tetrahedron: Asymmetry *20 (2009) 1725*

$[\alpha]_D^{25} = +60.5$ (*c* 1.4, $CHCl_3$)
Source of chirality: stereoselective synthesis
Absolute configuration: (5*R*,6*S*,7*S*)



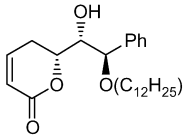
$C_{22}H_{34}O_5Si$

(5*R*,6*S*,7*S*)-Ethyl 6-(*tert*-butyldimethylsilyloxy)-5-hydroxy-7-methoxy-7-phenylhept-2-ynoate

Jhillu Singh Yadav*, Batta Madhava Rao, Kodepelly Sanjeeva Rao

Tetrahedron: Asymmetry *20 (2009) 1725*

$[\alpha]_D^{25} = +23.4$ (*c* 0.35, $CHCl_3$)
Source of chirality: stereoselective synthesis
Absolute configuration: (5*R*,6*S*,7*R*)

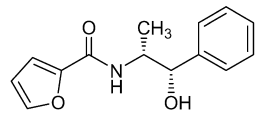


$C_{25}H_{38}O_4$

(*R*)-6-((1*S*,2*R*)-2-(Dodecyloxy)-1-hydroxy-2-phenylethyl)-5,6-dihydropyran-2-one

Nallamuthu Ananthi, Umesh Balakrishnan, Ajayan Vinu, Katsuhiko Ariga, Sivan Velmathi *

Tetrahedron: Asymmetry *20 (2009) 1731*



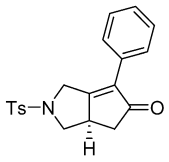
$C_{14}H_{15}NO_3$

N-((1*S*,2*R*)-1-Hydroxy-1-phenylpropan-2-yl)furan-2-carboxamide

$[\alpha]_D^{30} = +70.4$ (*c* 0.125, $CHCl_3$)
Source of chirality: (1*S*,2*R*)-(+)-norephedrine
Absolute configuration: (1*S*,2*R*)

Kyung Seok Jeong, Dong Eun Kim, Eunsung Lee, Young Ho Jhon, Hogyu Han, Jaheon Kim, Nakcheol Jeong *

Tetrahedron: Asymmetry *20 (2009) 1736*



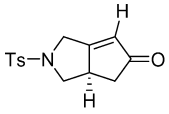
$C_{20}H_{19}NO_3S$

2,3,3a,4-Tetrahydro-6-phenyl-2-tosylcyclopenta[*c*]pyrrol-5-one

Ee = 99%
$[\alpha]_D^{20} = -87.0$ (*c* 2.0, CH_2Cl_2)
Source of chirality: chiral catalyst
Absolute configuration: (3*R*)

Kyung Seok Jeong, Dong Eun Kim, Eunsung Lee, Young Ho Jhon, Hogyu Han, Jaheon Kim, Nakcheol Jeong *

Tetrahedron: Asymmetry *20 (2009) 1736*



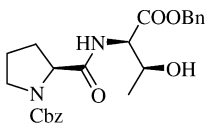
$C_{14}H_{15}NO_3S$

2,3,3a,4-Tetrahydro-2-tosylcyclopenta[*c*]pyrrol-5-one

Ee = 99%
$[\alpha]_D^{20} = +193.7$ (*c* 2.5, CH_2Cl_2)
Source of chirality: chiral catalyst
Absolute configuration: (3*R*)

Srivari Chandrasekhar *, Kancharla Johny, Chada Raji Reddy

Tetrahedron: Asymmetry *20 (2009) 1742*



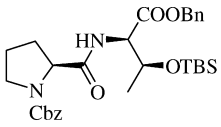
$C_{24}H_{28}N_2O_6$

(*S*)-Benzyl 2-((2*R*,3*S*)-1-(benzyloxy)-3-hydroxy-1-oxobutan-2-ylcarbamoyl)pyrrolidine-1-carboxylate

$[\alpha]_D^{25} = -53$ (*c* 1, $CHCl_3$)
Source of chirality: L-proline, L-threonine
Absolute configuration: (2*R*,3*S*)

Srivari Chandrasekhar *, Kancharla Johny, Chada Raji Reddy

Tetrahedron: Asymmetry *20 (2009) 1742*



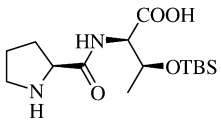
$[\alpha]_D^{25} = -30.4$ (*c* 1.0, $CHCl_3$)
Source of chirality: L-proline, L-threonine
Absolute configuration: (2*R*,3*S*)

$C_{30}H_{42}N_2O_6Si$

(*S*)-Benzyl 2-((2*R*,3*S*)-1-(benzyloxy)-3-(*tert*-butyldimethylsilyloxy)-1-oxobutan-2-ylcarbamoyl)pyrrolidine-1-carboxylate

Srivari Chandrasekhar *, Kancharla Johny, Chada Raji Reddy

Tetrahedron: Asymmetry *20 (2009) 1742*



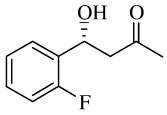
$[\alpha]_D^{25} = -21.1$ (*c* 0.5, $CHCl_3$)
Source of chirality: L-proline, L-threonine
Absolute configuration: (2*R*,3*S*)

$C_{15}H_{30}N_2O_4Si$

(2*R*,3*S*)-3-(*tert*-Butyldimethylsilyloxy)-2-(*S*)-pyrrolidine-2-carboxamido)butanoic acid

Srivari Chandrasekhar *, Kancharla Johny, Chada Raji Reddy

Tetrahedron: Asymmetry *20 (2009) 1742*



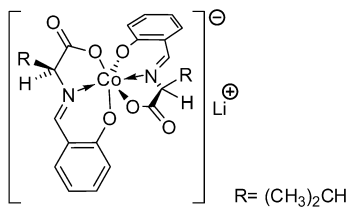
$[\alpha]_D^{25} = +65.9$ (*c* 1, $CHCl_3$)
Source of chirality: aldol reaction
Absolute configuration: (*R*)

$C_{10}H_{11}FO_2$

(*R*)-4-(2-Fluorophenyl)-4-hydroxybutan-2-one

Yuri N. Belokon' *, Victor I. Maleev, Dmitri A. Kataev, Tatiana F. Saveleva, Tatiana V. Skrupskaya, Yulia V. Nelyubina, Michael North

Tetrahedron: Asymmetry *20 (2009) 1746*



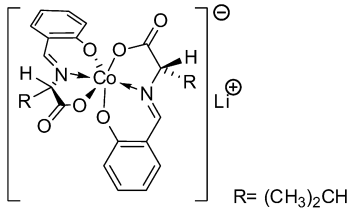
ee >99%
$[\alpha]_D^{25} = -4031$ (*c* 0.032, MeOH)
Source of chirality: synthesis from (*S*)-valine
Absolute configuration: Λ, (*S*,*S*)

$C_{24}H_{26}N_2O_6CoLi$

Lithium Λ-bis[*N*-salicylidene-(*S*)-valinato]cobaltate

Yuri N. Belokon' *, Victor I. Maleev, Dmitri A. Kataev, Tatiana F. Saveleva, Tatiana V. Skrupskaya, Yulia V. Nelyubina, Michael North

Tetrahedron: Asymmetry *20 (2009) 1746*

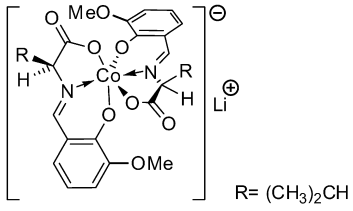


ee >99%
$[\alpha]_D^{25} = -8631$ (*c* 0.032, MeOH)
Source of chirality: synthesis from (*S*)-valine
Absolute configuration: Δ, (*S*,*S*)

$C_{24}H_{26}N_2O_6CoLi$
Lithium Δ-bis[*N*-salicylidene-(*S*)-valinato]cobaltate

Yuri N. Belokon' *, Victor I. Maleev, Dmitri A. Kataev, Tatiana F. Saveleva, Tatiana V. Skrupskaya, Yulia V. Nelyubina, Michael North

Tetrahedron: Asymmetry *20 (2009) 1746*

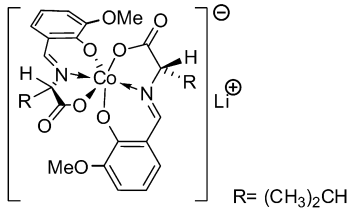


ee >99%
$[\alpha]_D^{25} = -3458$ (*c* 0.031, MeOH)
Source of chirality: synthesis from (*S*)-valine
Absolute configuration: Λ, (*S*,*S*)

$C_{26}H_{30}N_2O_8CoLi$
Lithium Λ-bis[*N*-(3-methoxysalicylidene)-(*S*)-valinato]cobaltate

Yuri N. Belokon' *, Victor I. Maleev, Dmitri A. Kataev, Tatiana F. Saveleva, Tatiana V. Skrupskaya, Yulia V. Nelyubina, Michael North

Tetrahedron: Asymmetry *20 (2009) 1746*

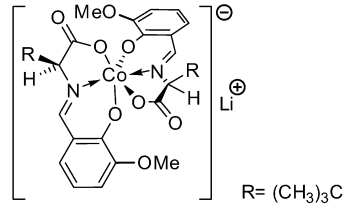


ee >99%
$[\alpha]_D^{25} = -6982$ (*c* 0.034, MeOH)
Source of chirality: synthesis from (*S*)-valine
Absolute configuration: Δ, (*S*,*S*)

$C_{26}H_{30}N_2O_8CoLi$
Lithium Δ-bis[*N*-(3-methoxysalicylidene)-(*S*)-valinato]cobaltate

Yuri N. Belokon' *, Victor I. Maleev, Dmitri A. Kataev, Tatiana F. Saveleva, Tatiana V. Skrupskaya, Yulia V. Nelyubina, Michael North

Tetrahedron: Asymmetry *20 (2009) 1746*

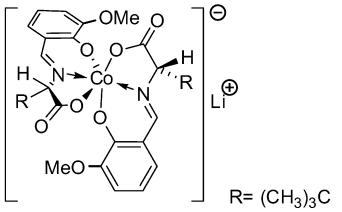


ee >99%
$[\alpha]_D^{25} = -4500$ (*c* 0.027, MeOH)
Source of chirality: synthesis from (*S*)-*tert*leucine
Absolute configuration: Λ, (*S*,*S*)

$C_{28}H_{34}N_2O_8CoLi$
Lithium Λ-bis[*N*-(3-methoxysalicylidene)-(*S*)-*tert*leucinato]cobaltate

Yuri N. Belokon'*, Victor I. Maleev, Dmitri A. Kataev, Tatiana F. Saveleva, Tatiana V. Skrupskaya, Yulia V. Nelyubina, Michael North

Tetrahedron: Asymmetry *20 (2009) 1746*



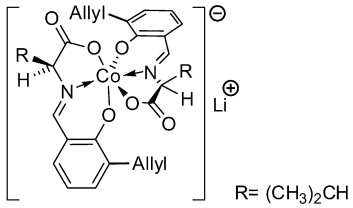
ee >99%
$[\alpha]_D^{25} = -5763$ (*c* 0.027, MeOH)
Source of chirality: synthesis from (*S*)-*tert*leucine
Absolute configuration: Δ, (*S*,*S*)

$C_{28}H_{34}N_2O_8CoLi$

Lithium Δ-bis[*N*-(3-methoxysalicylidene)-(*S*)-*tert*leucinato]cobaltate

Yuri N. Belokon'*, Victor I. Maleev, Dmitri A. Kataev, Tatiana F. Saveleva, Tatiana V. Skrupskaya, Yulia V. Nelyubina, Michael North

Tetrahedron: Asymmetry *20 (2009) 1746*



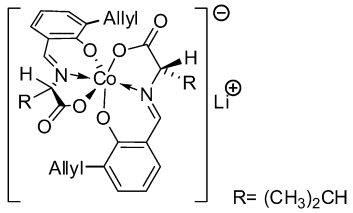
ee >99%
$[\alpha]_D^{25} = -4633$ (*c* 0.06, MeOH)
Source of chirality: synthesis from (*S*)-valine
Absolute configuration: Λ, (*S*,*S*)

$C_{30}H_{34}N_2O_6CoLi$

Lithium Λ-bis[*N*-(3-allylsalicylidene)-(*S*)-valinato]cobaltate

Yuri N. Belokon'*, Victor I. Maleev, Dmitri A. Kataev, Tatiana F. Saveleva, Tatiana V. Skrupskaya, Yulia V. Nelyubina, Michael North

Tetrahedron: Asymmetry *20 (2009) 1746*



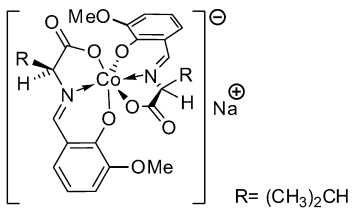
ee >99%
$[\alpha]_D^{25} = -732$ (*c* 0.044, MeOH)
Source of chirality: synthesis from (*S*)-valine
Absolute configuration: Δ, (*S*,*S*)

$C_{30}H_{34}N_2O_6CoLi$

Lithium Δ-bis[*N*-(3-allylsalicylidene)-(*S*)-valinato]cobaltate

Yuri N. Belokon'*, Victor I. Maleev, Dmitri A. Kataev, Tatiana F. Saveleva, Tatiana V. Skrupskaya, Yulia V. Nelyubina, Michael North

Tetrahedron: Asymmetry *20 (2009) 1746*



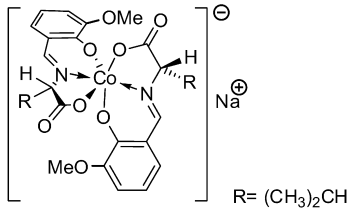
ee >99%
$[\alpha]_D^{25} = -3697$ (*c* 0.035, MeOH)
Source of chirality: synthesis from (*S*)-valine
Absolute configuration: Λ, (*S*,*S*)

$C_{26}H_{30}N_2O_8CoNa$

Sodium Λ-bis[*N*-(3-methoxysalicylidene)-(*S*)-valinato]cobaltate

Yuri N. Belokon' *, Victor I. Maleev, Dmitri A. Kataev, Tatiana F. Saveleva, Tatiana V. Skrupskaya, Yulia V. Nelyubina, Michael North

Tetrahedron: Asymmetry *20 (2009) 1746*



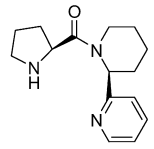
$C_{26}H_{30}N_2O_8CoNa$

Sodium Δ-bis[*N*-(3-methoxysalicylidene)-(*S*)-valinato]cobaltate

ee >99%
$[\alpha]_D^{25} = -8046$ (*c* 0.035, MeOH)
Source of chirality: synthesis from (*S*)-valine
Absolute configuration: Δ, (*S*,*S*)

Yan-Qin Cheng, Zheng Bian, Ya-Bing He, Fu-She Han, Chuan-Qing Kang, Zhao-Lun Ning, Lian-Xun Gao *

Tetrahedron: Asymmetry *20 (2009) 1753*



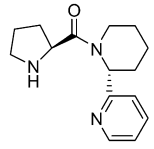
$C_{15}H_{21}N_3O$

(*S*)-2-(2′-Piperidinyl)pyridine derived L-prolinamide

$[\alpha]_D^{20} = -198.4$ (*c* 0.64, CH_2Cl_2)
Source of chirality: L-proline and (*S*)-2-(2′ piperidinyl) pyridine
Absolute configuration: (*S*, 2*S*)

Yan-Qin Cheng, Zheng Bian, Ya-Bing He, Fu-She Han, Chuan-Qing Kang, Zhao-Lun Ning, Lian-Xun Gao *

Tetrahedron: Asymmetry *20 (2009) 1753*



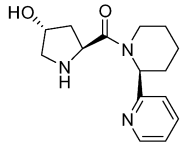
$C_{15}H_{21}N_3O$

(*R*)-2-(2′-Piperidinyl)pyridine derived L-prolinamide

$[\alpha]_D^{20} = +70.0$ (*c* 1, CH_2Cl_2)
Source of chirality: L-proline and (*R*)-2-(2′-piperidinyl) pyridine
Absolute configuration: (*R*, 2*S*)

Yan-Qin Cheng, Zheng Bian, Ya-Bing He, Fu-She Han, Chuan-Qing Kang, Zhao-Lun Ning, Lian-Xun Gao *

Tetrahedron: Asymmetry *20 (2009) 1753*



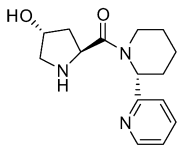
$C_{15}H_{21}N_3O_2$

(*S*)-2-(2′-Piperidinyl)pyridine derived *trans*-4-hydroxy-L-prolinamide

$[\alpha]_D^{20} = -100.0$ (*c* 0.1, CH_2Cl_2)
Source of chirality: *trans*-4-hydroxy-L-proline and (*S*)-2-(2′-piperidinyl) pyridine
Absolute configuration: (*S*, 2*S*, 4*R*)

Yan-Qin Cheng, Zheng Bian, Ya-Bing He, Fu-She Han, Chuan-Qing Kang, Zhao-Lun Ning, Lian-Xun Gao *

Tetrahedron: Asymmetry *20 (2009) 1753*



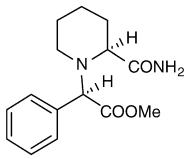
$C_{15}H_{21}N_3O_2$

(*R*)-2-(2′-Piperidinyl)pyridine derived *trans*-4-hydroxy-L-prolinamide

$[\alpha]_D^{20} = +61.7$ (*c* 0.47, CH_2Cl_2)
Source of chirality: *trans*-4-hydroxy-L-proline and (*R*)-2-(2′-piperidinyl) pyridine
Absolute configuration: (*R*, 2*S*, 4*R*)

Maciej Dawidowski *, Franciszek Herold, Marcin Wilczek, Jerzy Kleps, Irena Wolska, Jadwiga Turło, Andrzej Chodkowski, Paweł Widomski, Anna Bielejewska

Tetrahedron: Asymmetry *20 (2009) 1759*



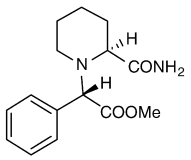
$C_{15}H_{20}N_2O_3$

(2*S*,α*R*)-α-(2-Carbamoylpiperidinyl)-α-phenylacetic acid methyl ester

$[\alpha]_D = -125.0$ (*c* 1, $CHCl_3$)
Source of chirality: (*S*)-(+)-2-(4-toluenesulfonyloxy)-phenylacetic acid methyl ester, (*S*)-(−)-2-piperidine-carboxamide
Absolute configuration: (2*S*,α*R*)

Maciej Dawidowski *, Franciszek Herold, Marcin Wilczek, Jerzy Kleps, Irena Wolska, Jadwiga Turło, Andrzej Chodkowski, Paweł Widomski, Anna Bielejewska

Tetrahedron: Asymmetry *20 (2009) 1759*



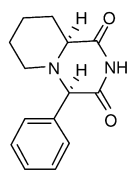
$C_{15}H_{20}N_2O_3$

(2*S*,α*S*)-α-(2-Carbamoylpiperidinyl)-α-phenylacetic acid methyl ester

$[\alpha]_D = +3.0$ (*c* 1, $CHCl_3$)
Source of chirality: (*R*)-(−)-2-(4-toluenesulfonyloxy)-phenylacetic acid methyl ester, (*S*)-(−)-2-piperidine-carboxamide
Absolute configuration: (2*S*,α*S*)

Maciej Dawidowski *, Franciszek Herold, Marcin Wilczek, Jerzy Kleps, Irena Wolska, Jadwiga Turło, Andrzej Chodkowski, Paweł Widomski, Anna Bielejewska

Tetrahedron: Asymmetry *20 (2009) 1759*



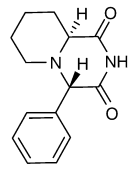
$C_{14}H_{16}N_2O_2$

(4*R*,9a*S*)-4-Phenyl-perhydropyrido[1,2-*a*]pyrazine-1,3-dione

$[\alpha]_D = -137.4$ (*c* 1, $CHCl_3$)
Source of chirality: (2*S*,α*R*)-α-(2-carbamoylpiperidinyl)-α-phenylacetic acid methyl ester
Absolute configuration: (4*R*,9a*S*)

Maciej Dawidowski *, Franciszek Herold, Marcin Wilczek, Jerzy Kleps, Irena Wolska, Jadwiga Turło, Andrzej Chodkowski, Paweł Widomski, Anna Bielejewska

Tetrahedron: Asymmetry *20 (2009) 1759*



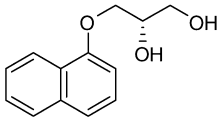
$C_{14}H_{16}N_2O_2$

(4*S*,9a*S*)-4-Phenyl-perhydropyrido[1,2-*a*]pyrazine-1,3-dione

$[\alpha]_D = -97.1$ (*c* 1, $CHCl_3$)
Source of chirality: (2*S*,α*S*)-α-(2-carbamoylpiperidinyl)-α-phenylacetic acid methyl ester
Absolute configuration: (4*S*,9a*S*)

Sharad P. Panchgalle, Rohitkumar G. Gore, Subhash P. Chavan, Uttam R. Kalkote *

Tetrahedron: Asymmetry *20 (2009) 1767*



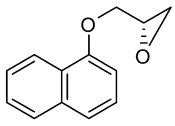
$C_{13}H_{14}O_3$

(*S*)-3-(1′-Naphthoxy)propane-1,2-diol

Ee = 98%
$[\alpha]_D^{25} = +6.7$ (*c* 1.05 MeOH)
Source of chirality: asymmetric synthesis
Absolute configuration: (2*S*)

Sharad P. Panchgalle, Rohitkumar G. Gore, Subhash P. Chavan, Uttam R. Kalkote *

Tetrahedron: Asymmetry *20 (2009) 1767*



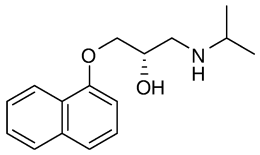
$C_{13}H_{12}O_2$

(*S*)-2-((1′-Naphthoxy)-methyl)oxirane

Ee = 98%
$[\alpha]_D^{25} = -34.0$ (*c* 1.52, MeOH)
Source of chirality: asymmetric synthesis
Absolute configuration: (2*S*)

Sharad P. Panchgalle, Rohitkumar G. Gore, Subhash P. Chavan, Uttam R. Kalkote *

Tetrahedron: Asymmetry *20 (2009) 1767*



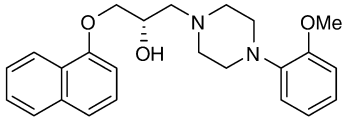
$C_{16}H_{21}NO_2$

(*S*)-1-(Isopropylamino)-3-(1′-naphthoxy)propan-2-ol or (*S*)-propranolol

Ee = 98%
$[\alpha]_D^{25} = -9.8$ (*c* 0.55, EtOH)
Source of chirality: asymmetric synthesis
Absolute configuration: (2*S*)

Sharad P. Panchgalle, Rohitkumar G. Gore, Subhash P. Chavan, Uttam R. Kalkote *

Tetrahedron: Asymmetry *20 (2009) 1767*



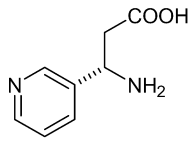
$C_{24}H_{28}N_2O_3$

(*S*)-1-[4-(2′-Methoxyphenyl)-piperazin-1-yl]-3-(1′-naphthoxy)-2-propanol or (*S*)-naftopidil

Ee = 98%
$[\alpha]_D^{25} = +4.7$ (*c* 1.55, MeOH)
Source of chirality: asymmetric synthesis
Absolute configuration: (2*S*)

Gábor Tasnádi, Enikő Forró *, Ferenc Fülöp *

Tetrahedron: Asymmetry *20 (2009) 1771*



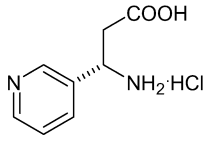
$C_8H_{10}N_2O_2$

(*S*)-3-Amino-3-(3-pyridyl)propanoic acid

Ee >99% by HPLC on a Chirobiotic TAG column
$[\alpha]_D^{25} = -5.1$ (*c* 0.41, H_2O)
Source of chirality: lipase PS-catalyzed hydrolysis
Absolute configuration: (3*S*)

Gábor Tasnádi, Enikő Forró *, Ferenc Fülöp *

Tetrahedron: Asymmetry *20 (2009) 1771*



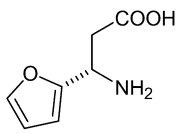
$C_8H_{11}ClN_2O_2$

(*S*)-3-Amino-3-(3-pyridyl)propanoic acid hydrochloride

Ee >99% by HPLC on a Chirobiotic TAG column
$[\alpha]_D^{25} = -3.9$ (*c* 0.33, H_2O)
Source of chirality: lipase PS-catalyzed hydrolysis
Absolute configuration: (3*S*)

Gábor Tasnádi, Enikő Forró *, Ferenc Fülöp *

Tetrahedron: Asymmetry *20 (2009) 1771*



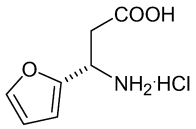
$C_7H_9NO_3$

(*S*)-3-Amino-3-(2-furyl)propanoic acid

Ee >99% by HPLC on a Chirobiotic TAG column
$[\alpha]_D^{25} = -5.8$ (*c* 0.52, H_2O)
Source of chirality: lipase PS-catalyzed hydrolysis
Absolute configuration: (3*S*)

Gábor Tasnádi, Enikő Forró *, Ferenc Fülöp *

Tetrahedron: Asymmetry *20 (2009) 1771*



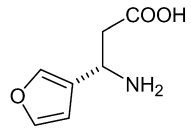
$C_7H_{10}ClNO_3$

(*S*)-3-Amino-3-(2-furyl)propanoic acid hydrochloride

Ee >99% by HPLC on a Chirobiotic TAG column
$[\alpha]_D^{25} = -4.9$ (*c* 0.32, H_2O)
Source of chirality: lipase PS-catalyzed hydrolysis
Absolute configuration: (3*S*)

Gábor Tasnádi, Enikő Forró *, Ferenc Fülöp *

Tetrahedron: Asymmetry *20 (2009) 1771*



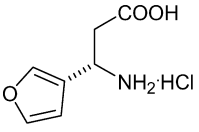
$C_7H_9NO_3$

(*S*)-3-Amino-3-(3-furyl)propanoic acid

Ee >99% by GC on a Chirasil L-Val column after derivatization with CH_2N_2 and $(PrCO)_2O$
$[\alpha]_D^{25} = -6.7$ (*c* 0.34, H_2O)
Source of chirality: lipase PS-catalyzed hydrolysis
Absolute configuration: (3*S*)

Gábor Tasnádi, Enikő Forró *, Ferenc Fülöp *

Tetrahedron: Asymmetry *20 (2009) 1771*



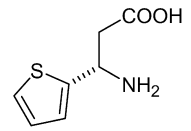
$C_7H_{10}ClNO_3$

(*S*)-3-Amino-3-(3-furyl)propanoic acid hydrochloride

Ee >99% by GC on a Chirasil L-Val column after derivatization with CH_2N_2 and $(PrCO)_2O$
$[\alpha]_D^{25} = -4.6$ (*c* 0.42, H_2O)
Source of chirality: lipase PS-catalyzed hydrolysis
Absolute configuration: (3*S*)

Gábor Tasnádi, Enikő Forró *, Ferenc Fülöp *

Tetrahedron: Asymmetry *20 (2009) 1771*



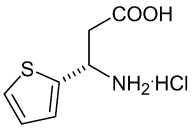
$C_7H_9NO_2S$

(*S*)-3-Amino-3-(2-thienyl)propanoic acid

Ee >99% by HPLC on a Chirobiotic TAG column
$[\alpha]_D^{25} = -9.9$ (*c* 0.41, H_2O)
Source of chirality: lipase PS-catalyzed hydrolysis
Absolute configuration: (3*S*)

Gábor Tasnádi, Enikő Forró *, Ferenc Fülöp *

Tetrahedron: Asymmetry *20 (2009) 1771*



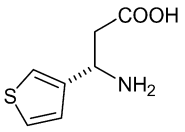
$C_7H_{10}ClNO_2S$

(*S*)-3-Amino-3-(2-thienyl)propanoic acid hydrochloride

Ee >99% by HPLC on a Chirobiotic TAG column
$[\alpha]_D^{25} = -3.1$ (*c* 0.33, H_2O)
Source of chirality: lipase PS-catalyzed hydrolysis
Absolute configuration: (3*S*)

Gábor Tasnádi, Enikő Forró *, Ferenc Fülöp *

Tetrahedron: Asymmetry *20 (2009) 1771*



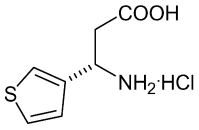
$C_7H_9NO_2S$

(*S*)-3-Amino-3-(3-thienyl)propanoic acid

Ee >99% by GC on a Chirasil L-Val column after derivatization with CH_2N_2 and $(EtCO)_2O$
$[\alpha]_D^{25} = -3.2$ (*c* 0.32, H_2O)
Source of chirality: lipase PS-catalyzed hydrolysis
Absolute configuration: (3*S*)

Gábor Tasnádi, Enikő Forró *, Ferenc Fülöp *

Tetrahedron: Asymmetry *20 (2009) 1771*



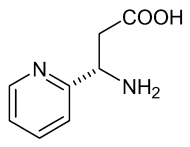
$C_7H_{10}ClNO_2S$

(*S*)-3-Amino-3-(3-thienyl)propanoic acid hydrochloride

Ee >99% by GC on a Chirasil L-Val column after derivatization with CH_2N_2 and $(EtCO)_2O$
$[\alpha]_D^{25} = -3.6$ (*c* 0.34, H_2O)
Source of chirality: lipase PS-catalyzed hydrolysis
Absolute configuration: (3*S*)

Gábor Tasnádi, Enikő Forró *, Ferenc Fülöp *

Tetrahedron: Asymmetry *20 (2009) 1771*



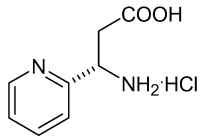
$C_8H_{10}N_2O_2$

(*S*)-3-Amino-3-(2-pyridyl)propanoic acid

Ee >99% by HPLC on a Chiralpak IA column after derivatization with CH_2N_2
$[\alpha]_D^{25} = -18.2$ (*c* 0.32, H_2O)
Source of chirality: lipase PS-catalyzed hydrolysis
Absolute configuration: (3*S*)

Gábor Tasnádi, Enikő Forró *, Ferenc Fülöp *

Tetrahedron: Asymmetry *20 (2009) 1771*



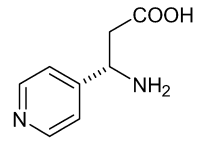
$C_8H_{11}ClN_2O_2$

(*S*)-3-Amino-3-(2-pyridyl)propanoic acid hydrochloride

Ee >99% by HPLC on a Chiralpak IA column after derivatization with CH_2N_2
$[\alpha]_D^{25} = -8.6$ (*c* 0.31, H_2O)
Source of chirality: lipase PS-catalyzed hydrolysis
Absolute configuration: (3*S*)

Gábor Tasnádi, Enikő Forró *, Ferenc Fülöp *

Tetrahedron: Asymmetry *20 (2009) 1771*



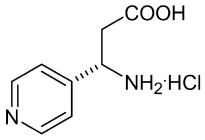
$C_8H_{10}N_2O_2$

(*S*)-3-Amino-3-(4-pyridyl)propanoic acid

Ee = 98% by HPLC on a Chirobiotic TAG column
$[\alpha]_D^{25} = -11.7$ (*c* 0.36, H_2O)
Source of chirality: lipase PS-catalyzed hydrolysis
Absolute configuration: (3*S*)

Gábor Tasnádi, Enikő Forró *, Ferenc Fülöp *

Tetrahedron: Asymmetry *20 (2009) 1771*



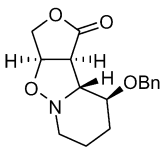
$C_8H_{11}ClN_2O_2$

(*S*)-3-Amino-3-(4-pyridyl)propanoic acid hydrochloride

Ee = 98% by HPLC on a Chirobiotic TAG column
$[\alpha]_D^{25} = -3.6$ (*c* 0.35, H_2O)
Source of chirality: lipase PS-catalyzed hydrolysis
Absolute configuration: (3*S*)

Sebastian Stecko, Jadwiga Frelek, Marek Chmielewski *

Tetrahedron: Asymmetry *20 (2009) 1778*



$C_{16}H_{19}NO_4$

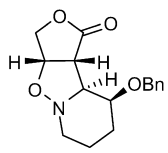
(*1aR,4aS,4bS,5R*)-5-Benzyloxy-octahydrofuro[3,4-*d*]pyridin[1,2-*b*]isoxazol-4(*3H*)-one

$[\alpha]_D^{25} = +57.3$ (*c* 1.85, CH_2Cl_2)
Source of chirality: asymmetric synthesis
Absolute configuration: 1a*R*,4a*S*,4b*S*,5*R*

Sebastian Stecko, Jadwiga Frelek, Marek Chmielewski *

Tetrahedron: Asymmetry *20 (2009) 1778*

$[\alpha]_D^{25} = +11.3$ (*c* 0.6, CH_2Cl_2)
Source of chirality: asymmetric synthesis
Absolute configuration: 1a*S*,4a*R*,4b*S*,5*R*



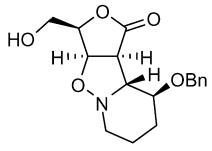
$C_{16}H_{19}NO_4$

(*1aS,4aR,4bS,5R*)-5-Benzyloxy-octahydrofuro[3,4-*d*]pyridin[1,2-*b*]isoxazol-4(*3H*)-one

Sebastian Stecko, Jadwiga Frelek, Marek Chmielewski *

Tetrahedron: Asymmetry *20 (2009) 1778*

$[\alpha]_D^{25} = +2.24$ (*c* 2.24, CH_2Cl_2)
Source of chirality: asymmetric synthesis
Absolute configuration: 1a*R*,2*R*,4a*S*,4b*S*,5*R*



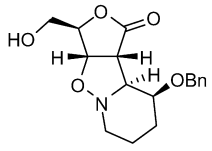
$C_{17}H_{21}NO_5$

(*1aR,2R,4aS,4bS,5R*)-5-Benzyloxy-2-hydroxymethyl-octahydrofuro[3,4-*d*]pyridino[1,2-*b*]isoxazol-4(*3H*)-one

Sebastian Stecko, Jadwiga Frelek, Marek Chmielewski *

Tetrahedron: Asymmetry *20 (2009) 1778*

$[\alpha]_D^{25} = +100.3$ (*c* 0.75, CH_2Cl_2)
Source of chirality: asymmetric synthesis
Absolute configuration: 1a*S*,2*R*,4a*R*,4b*S*,5*R*



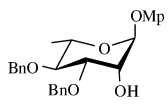
$C_{17}H_{21}NO_5$

(*1aS,2R,4aR,4bS,5R*)-5-Benzyloxy-2-hydroxymethyl-octahydrofuro[3,4-*d*]pyridin[1,2-*b*]isoxazol-4(*3H*)-one

Goutam Guchhait, Anup Kumar Misra *

Tetrahedron: Asymmetry *20 (2009) 1791*

$[\alpha]_D^{25} = -43$ (*c* 1.5, $CHCl_3$)
Source of chirality: L-rhamnose

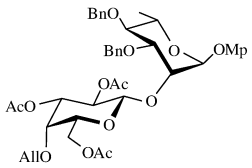


$C_{27}H_{30}O_6$

4-Methoxyphenyl 3,4-di-*O*-benzyl-α-L-rhamnopyranoside

Goutam Guchhait, Anup Kumar Misra *

Tetrahedron: Asymmetry *20 (2009) 1791*



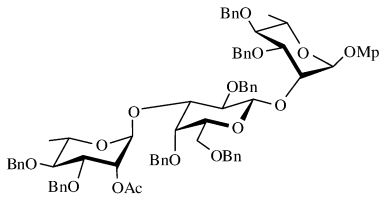
$C_{42}H_{50}O_{14}$

$[\alpha]_D^{25} = +12.3$ (*c* 1.5, $CHCl_3$)
Source of chirality: D-galactose, L-rhamnose

4-Methoxyphenyl (2,4,6-tri-*O*-acetyl-3-*O*-allyl-β-D-galactopyranosyl)-(1→2)-3,4-di-*O*-benzyl-α-L-rhamnopyranoside

Goutam Guchhait, Anup Kumar Misra *

Tetrahedron: Asymmetry *20 (2009) 1791*



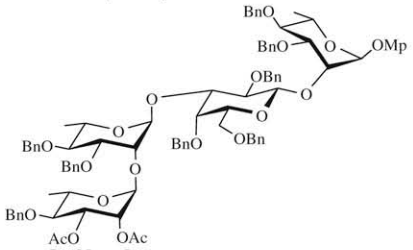
$C_{76}H_{82}O_{16}$

$[\alpha]_D^{25} = +2.6$ (*c* 1.5, $CHCl_3$)
Source of chirality: D-galactose, L-rhamnose

4-Methoxyphenyl (2-*O*-acetyl-3,4-di-*O*-benzyl-α-L-rhamnopyranosyl)-(1→3)-(2,4,6-tri-*O*-benzyl-β-D-galactopyranosyl)-(1→2)-3,4-di-*O*-benzyl-α-L-rhamnopyranoside

Goutam Guchhait, Anup Kumar Misra *

Tetrahedron: Asymmetry *20 (2009) 1791*



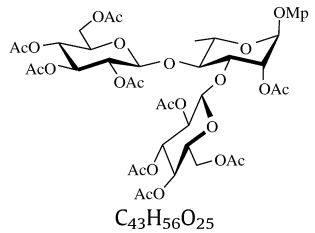
$C_{91}H_{100}O_{21}$

$[\alpha]_D^{25} = -7.5$ (*c* 1.0, $CHCl_3$)
Source of chirality: D-galactose, L-rhamnose

4-Methoxyphenyl (2,3-di-*O*-acetyl-4-*O*-benzyl-α-L-rhamnopyranosyl)-(1→2)-(3,4-di-*O*-benzyl-α-L-rhamnopyranosyl)-(1→3)-(2,4,6-tri-*O*-benzyl-β-D-galactopyranosyl)-(1→2)-3,4-di-*O*-benzyl-α-L-rhamnopyranoside

Goutam Guchhait, Anup Kumar Misra *

Tetrahedron: Asymmetry *20 (2009) 1791*



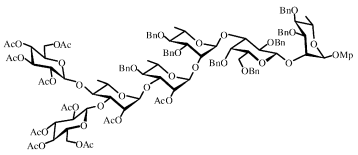
$C_{43}H_{56}O_{25}$

$[\alpha]_D^{25} = -2.3$ (*c* 1.0, $CHCl_3$)
Source of chirality: D-glucose, L-rhamnose

4-Methoxyphenyl (2,3,4,6-tetra-*O*-acetyl-β-D-glucopyranosyl)-(1→3)-[(2,3,4,6-tetra-*O*-acetyl-β-D-glucopyranosyl)-(1→4)]-2-*O*-acetyl-α-L-rhamnopyranoside

Goutam Guchhait, Anup Kumar Misra *

Tetrahedron: Asymmetry *20 (2009) 1791*



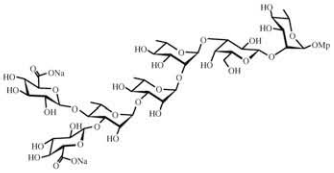
$[\alpha]_D^{25} = +3.2$ (*c* 1.5, $CHCl_3$)
Source of chirality: D-galactose, D-glucose, L-rhamnose

$C_{125}H_{146}O_{43}$

4-Methoxyphenyl (2,3,4,6-tetra-*O*-acetyl-β-D-glucopyranosyl)-(1→3)-[(2,3,4,6-tetra-*O*-acetyl-β-D-glucopyranosyl)-(1→4)]-2-*O*-acetyl-α-L-rhamnopyranosyl-(1→3)-(2-*O*-acetyl-4-*O*-benzyl-α-L-rhamnopyranosyl)-(1→2)-(3,4-di-*O*-benzyl-α-L-rhamnopyranosyl)-(1→3)-(2,4,6-tri-*O*-benzyl-β-D-galactopyranosyl)-(1→2)-3,4-di-*O*-benzyl-α-L-rhamnopyranoside

Goutam Guchhait, Anup Kumar Misra *

Tetrahedron: Asymmetry *20 (2009) 1791*



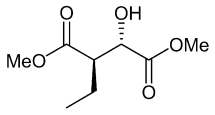
$[\alpha]_D^{25} = -64$ (*c* 1.0, CH_3OH)
Source of chirality: D-galactose, D-glucosamine, L-fucose

$C_{49}H_{72}Na_2O_{35}$

4-Methoxyphenyl (sodium β-D-glucopyranosyl uronate)-(1→3)-[(sodium β-D-glucopyranosyl uronate)-(1→4)]-α-L-rhamnopyranosyl-(1→3)-(α-L-rhamnopyranosyl)-(1→2)-(α-L-rhamnopyranosyl)-(1→3)-(β-D-galactopyranosyl)-(1→2)-α-L-rhamnopyranoside

Ahmed Kamal *, P. Venkat Reddy, S. Prabhakar, P. Suresh

Tetrahedron: Asymmetry *20 (2009) 1798*



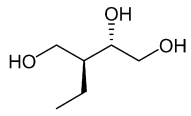
$[\alpha]_D^{20} = +9.3$ (*c* 1.1, $CHCl_3$)
Source of chirality: (*S*)-malic acid
Absolute configuration: (2*R*,3*S*)

$C_6H_{10}O_5$

Dimethyl (2*R*,3*S*)-2-ethyl-3-hydroxybutanedioate

Ahmed Kamal *, P. Venkat Reddy, S. Prabhakar, P. Suresh

Tetrahedron: Asymmetry *20 (2009) 1798*



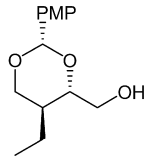
$[\alpha]_D^{25} = +19.5$ (*c* 1.1, $CHCl_3$)
Source of chirality: (*S*)-malic acid
Absolute configuration: (2*S*,3*S*)

$C_6H_{14}O_3$

(2*S*,3*S*)-3-Ethylbutane-1,2,4-triol

Ahmed Kamal *, P. Venkat Reddy, S. Prabhakar, P. Suresh

Tetrahedron: Asymmetry *20 (2009) 1798*



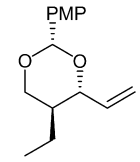
$C_{14}H_{20}O_4$

[(2*S*,4*S*,5*S*)-5-Ethyl-2-(4-methoxyphenyl)-1,3-dioxan-4-yl]methanol

$[\alpha]_D^{25} = +31.5$ (*c* 1.1, $CHCl_3$)
Source of chirality: (*S*)-malic acid
Absolute configuration: (4*S*,5*S*)

Ahmed Kamal *, P. Venkat Reddy, S. Prabhakar, P. Suresh

Tetrahedron: Asymmetry *20 (2009) 1798*



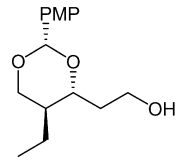
$C_{15}H_{20}O_3$

(2*S*,4*R*,5*S*)-5-Ethyl-2-(4-methoxyphenyl)-4-vinyl-1,3-dioxane

$[\alpha]_D^{25} = +15.5$ (*c* 1.1, $CHCl_3$)
Source of chirality: (*S*)-malic acid
Absolute configuration: (4*R*,5*S*)

Ahmed Kamal *, P. Venkat Reddy, S. Prabhakar, P. Suresh

Tetrahedron: Asymmetry *20 (2009) 1798*



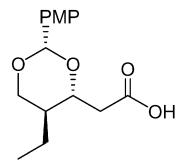
$C_{15}H_{22}O_4$

2-[(2*S*,4*R*,5*S*)-5-Ethyl-2-(4-methoxyphenyl)-1,3-dioxan-4-yl]-1-ethanol

$[\alpha]_D^{25} = +81.5$ (*c* 1.1, $CHCl_3$)
Source of chirality: (*S*)-malic acid
Absolute configuration: (4*R*,5*S*)

Ahmed Kamal *, P. Venkat Reddy, S. Prabhakar, P. Suresh

Tetrahedron: Asymmetry *20 (2009) 1798*



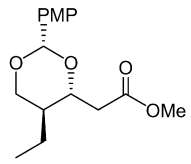
$C_{15}H_{20}O_5$

2-[(2*S*,4*R*,5*S*)-5-Ethyl-2-(4-methoxyphenyl)-1,3-dioxan-4-yl]acetic acid

$[\alpha]_D^{25} = +55.5$ (*c* 1.1, $CHCl_3$)
Source of chirality: (*S*)-malic acid
Absolute configuration: (4*R*,5*S*)

Ahmed Kamal *, P. Venkat Reddy, S. Prabhakar, P. Suresh

Tetrahedron: Asymmetry *20 (2009) 1798*



$[\alpha]_D^{25} = +82.0$ (*c* 1.1, $CHCl_3$)
Source of chirality: (*S*)-malic acid
Absolute configuration: (4*R*,5*S*)

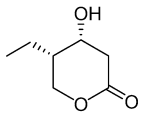
$C_{16}H_{22}O_5$

Methyl 2-[(2*S*,4*R*,5*S*)-5-ethyl-2-(4-methoxyphenyl)-1,3-dioxan-4-yl]acetate

---

Ahmed Kamal *, P. Venkat Reddy, S. Prabhakar, P. Suresh

Tetrahedron: Asymmetry *20 (2009) 1798*



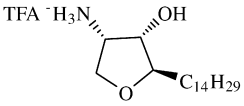
$[\alpha]_D^{22} = +22.9$ (*c* 1.1, $CHCl_3$)
Source of chirality: (*S*)-malic acid
Absolute configuration: (4*R*,5*S*)

$C_7H_{12}O_3$

(4*R*,5*S*)-5-Ethyl-4-hydroxytetrahydro-2*H*-2-pyranone

Gowrisankar Reddipalli, Mallam Venkataiah, Mithilesh Kumar Mishra, Nitin W. Fadnavis *

Tetrahedron: Asymmetry *20 (2009) 1802*



$[\alpha]_D^{25} = +13.6$ (*c* 1, EtOH)
Chiral source: D-(−)-diethyl tartrate
Absolute configuration: (2*R*,3*S*,4*S*)

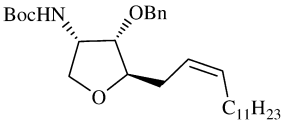
$C_{20}H_{38}F_3NO_4$

(2*R*,3*S*,4*S*)-4-Amino-2-tetradecyltetrahydro-3-furanol TFA salt

---

Gowrisankar Reddipalli, Mallam Venkataiah, Mithilesh Kumar Mishra, Nitin W. Fadnavis *

Tetrahedron: Asymmetry *20 (2009) 1802*



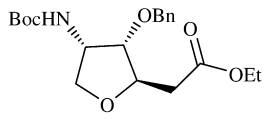
$[\alpha]_D^{25} = +6.8$ (*c* 1, $CHCl_3$)
Chiral source: D-(−)-diethyl tartrate
Absolute configuration: (3*S*,4*S*,5*R*)

$C_{30}H_{49}NO_4$

tert-Pentyl *N*-(3*S*,4*S*,5*R*)-4-(benzyloxy)-5-[(*Z*)-2-tetradecenyl]tetrahydro-3-furanylcarbamate

Gowrisankar Reddipalli, Mallam Venkataiah, Mithilesh Kumar Mishra, Nitin W. Fadnavis *

Tetrahedron: Asymmetry *20 (2009) 1802*



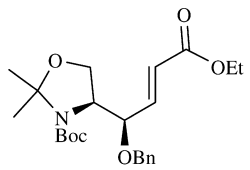
$[\alpha]_D^{25} = +11.5$ (*c* 1, $CHCl_3$)
Chiral source: D-(−)-diethyl tartrate
Absolute configuration: (2*R*,3*S*,4*S*)

$C_{20}H_{29}NO_6$

Ethyl 2-((2*R*,3*S*,4*S*)-3-(benzyloxy)-4-[(*tert*-pentyloxy)carbonyl]aminotetrahydro-2-furanyl)acetate

Gowrisankar Reddipalli, Mallam Venkataiah, Mithilesh Kumar Mishra, Nitin W. Fadnavis *

Tetrahedron: Asymmetry *20 (2009) 1802*



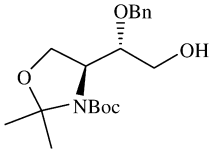
$[\alpha]_D^{25} = -22.2$ (*c* 1, $CHCl_3$)
Chiral source: D-(−)-diethyl tartrate
Absolute configuration: (4*S*,1*R*,2*E*)

$C_{23}H_{33}NO_6$

tert-Butyl (4*S*)-4-[(1*R*,2*E*)-1-(benzyloxy)-4-ethoxy-4-oxo-2-butenyl]-2,2-dimethyl-1,3-oxazolane-3-carboxylate

Gowrisankar Reddipalli, Mallam Venkataiah, Mithilesh Kumar Mishra, Nitin W. Fadnavis *

Tetrahedron: Asymmetry *20 (2009) 1802*



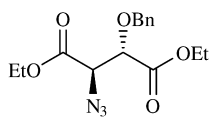
$[\alpha]_D^{25} = -50.0$ (*c* 1, $CHCl_3$)
Chiral source: D-(−)-diethyl tartrate
Absolute configuration: (1*R*,4*S*)

$C_{19}H_{29}NO_5$

tert-Butyl (4*S*)-4-[(1*S*)-1-benzyloxyethyl]-2,2 dimethyl-1,3-oxazolane-3-carbamate

Gowrisankar Reddipalli, Mallam Venkataiah, Mithilesh Kumar Mishra, Nitin W. Fadnavis *

Tetrahedron: Asymmetry *20 (2009) 1802*



$[\alpha]_D^{25} = +5.5$ (*c* 1, $CHCl_3$)
Chiral source: D-(−)-diethyl tartrate
Absolute configuration: (1*R*,2*S*)

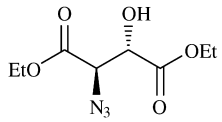
$C_{15}H_{19}N_3O_5$

1-[(1*R*,2*S*)-2-(Benzyloxy)-3-ethoxy-1-(ethoxycarbonyl)-3-oxopropyl]-1,2-triazadien-2-ium

Gowrisankar Reddipalli, Mallam Venkataiah, Mithilesh Kumar Mishra, Nitin W. Fadnavis *

Tetrahedron: Asymmetry *20 (2009) 1802*

$[\alpha]_D^{25} = -30.5$ (*c* 1, $CHCl_3$)
Chiral source: D-(−)-diethyl tartrate
Absolute configuration: (1*R*,2*S*)



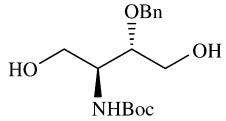
$C_8H_{13}N_3O_5$

1-[(1*R*,2*S*)-3-Ethoxy-1-(ethoxycarbonyl)-2-hydroxy-3-oxopropyl]-1,2-triazadien-2-ium

Gowrisankar Reddipalli, Mallam Venkataiah, Mithilesh Kumar Mishra, Nitin W. Fadnavis *

Tetrahedron: Asymmetry *20 (2009) 1802*

$[\alpha]_D^{25} = -45.4$ (*c* 1, $CHCl_3$)
Chiral source =D-(−)-Diethyl tartrate
Absolute configuration = (1*S*,2*S*)



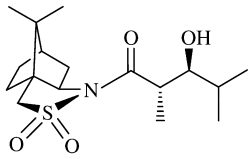
$C_{16}H_{25}NO_5$

tert-butyl *N*-[(1*S*,2*S*)-2-(benzyloxy)-3-hydroxy-1-(hydroxymethyl)propyl]carbamate

Peddikotla Prabhakar, Singanaboina Rajaram, Yenamandra Venkateswarlu *

Tetrahedron: Asymmetry *20 (2009) 1806*

$[\alpha]_D = -71.5$ (*c* 0.1, $CHCl_3$)
Source of chirality: chiral auxiliary
Absolute configuration: (2*S*,3*S*)



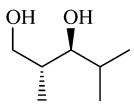
$C_{17}H_{29}NO_4S$

(2*R*)-*N*-[2*S*,3*S*)-2,4-Dimethyl-3-hydroxypentan-1-oyl]bornane-10,2-sultam

Peddikotla Prabhakar, Singanaboina Rajaram, Yenamandra Venkateswarlu *

Tetrahedron: Asymmetry *20 (2009) 1806*

$[\alpha]_D = +8.0$ (*c* 0.1, $CHCl_3$)
Source of chirality: chiral auxiliary
Absolute configuration: (2*R*,3*S*)



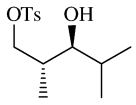
$C_7H_{16}O_2$

(2*R*,3*S*)-2,4-Dimethylpentane-1,3-diol

Peddikotla Prabhakar, Singanaboina Rajaram, Yenamandra Venkateswarlu *

Tetrahedron: Asymmetry *20 (2009) 1806*

$[\alpha]_D = +21.0$ (c 0.1, $CHCl_3$)
Source of chirality: chiral auxiliary
Absolute configuration: (2*R*,3*S*)



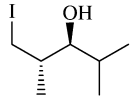
$C_{14}H_{22}O_4S$

(2*R*,3*S*)-3-Hydroxy-2,4-dimethylpentyl 4-methylbenzenesulfonate

Peddikotla Prabhakar, Singanaboina Rajaram, Yenamandra Venkateswarlu *

Tetrahedron: Asymmetry *20 (2009) 1806*

$[\alpha]_D = -32.5$ (c 0.2, $CHCl_3$)
Source of chirality: chiral auxiliary
Absolute configuration: (2*S*,3*S*)



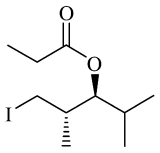
$C_{26}H_{42}O_4$

(2*S*,3*S*)-1-Iodo-2,4-dimethylpentan-3-ol

Peddikotla Prabhakar, Singanaboina Rajaram, Yenamandra Venkateswarlu *

Tetrahedron: Asymmetry *20 (2009) 1806*

$[\alpha]_D = -7.0$ (c 0.1, $CHCl_3$)
Source of chirality: chiral auxiliary
Absolute configuration: (2*S*,3*S*)



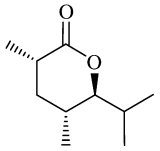
$C_{10}H_{19}O_2I$

(2*S*,3*S*)-1-Iodo-2,4-dimethylpentan-3-yl propionate

Peddikotla Prabhakar, Singanaboina Rajaram, Yenamandra Venkateswarlu *

Tetrahedron: Asymmetry *20 (2009) 1806*

$[\alpha]_D = -24.5$ (c 0.1, $CHCl_3$)
Source of chirality: chiral auxiliary
Absolute configuration: (3*S*,5*R*,6*S*)

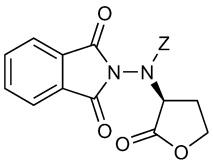


$C_{10}H_{18}O_2$

4-{(3*S*)-4-[(4*S*,6*R*)-2,2-Dimethyl-6-tridecyl1,3-dioxan-4-yl]-3-hydroxybutyl}phenol

Emelyne Voss, Axelle Arrault, Jacques Bodiguel, Brigitte Jamart-Grégoire *

Tetrahedron: Asymmetry *20 (2009) 1809*



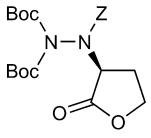
$[\alpha]_D^{22} = -2.63$ (*c* 0.760, EtOH)
Source of chirality: (*R*)-α-hydroxy-γ-butyrolactone
Absolute configuration: (*S*)

$C_{20}H_{16}N_2O_6$

(*S*)-α-(*N*-Benzyloxycarbonylaminophthamilido)-γ-butyrolactone

Emelyne Voss, Axelle Arrault, Jacques Bodiguel, Brigitte Jamart-Grégoire *

Tetrahedron: Asymmetry *20 (2009) 1809*



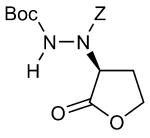
$[\alpha]_D^{22} = -2.54$ (*c* 1.180, EtOH)
Source of chirality: (*R*)-α-hydroxy-γ-butyrolactone
Absolute configuration: (*S*)

$C_{22}H_{30}N_2O_8$

(*S*)-α-[N^{α}-(Benzyloxycarbonyl)-N^{β},N^{β}-bis(*tert*-butyl-oxycarbonyl)hydrazino]-γ-butyrolactone

Emelyne Voss, Axelle Arrault, Jacques Bodiguel, Brigitte Jamart-Grégoire *

Tetrahedron: Asymmetry *20 (2009) 1809*



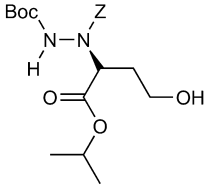
$[\alpha]_D^{22} = -2.86$ (*c* 1.050, EtOH)
Source of chirality: (*R*)-α-hydroxy-γ-butyrolactone
Absolute configuration: (*S*)

$C_{17}H_{22}N_2O_6$

(*S*)-α-[N^{α}-(Benzyloxycarbonyl)-N^{β}-(*tert*-butyloxy-carbonyl)-hydrazino]-γ-butyrolactone

Emelyne Voss, Axelle Arrault, Jacques Bodiguel, Brigitte Jamart-Grégoire *

Tetrahedron: Asymmetry *20 (2009) 1809*



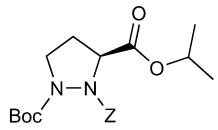
$[\alpha]_D^{22} = -0.74$ (*c* 1.360, EtOH)
Source of chirality: (*R*)-α-hydroxy-γ-butyrolactone
Absolute configuration: (2*S*)

$C_{20}H_{30}N_2O_7$

Isopropyl (2*S*)-2-[N^{α}-(benzyloxycarbonyl)-N^{β}-(*tert*-butyloxycarbonyl)hydrazino]-4-hydroxybutanoate

Emelyne Voss, Axelle Arrault, Jacques Bodiguel, Brigitte Jamart-Grégoire *

Tetrahedron: Asymmetry *20 (2009) 1809*



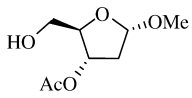
$C_{20}H_{28}N_2O_6$

Isopropyl (3*S*)-3-[2-(benzyloxycarbonyl)-(*tert*-butyl-oxycarbonyl)pyrazolidine]-carboxylate

$[\alpha]_D^{22} = -12.94$ (*c* 0.850, EtOH)
Source of chirality: (*R*)-α-hydroxy-γ-butyrolactone
Absolute configuration: (3*S*)

Esteban D. Gudiño, Adolfo M. Iribarren, Luis E. Iglesias *

Tetrahedron: Asymmetry *20 (2009) 1813*



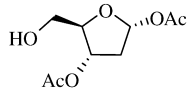
$C_8H_{14}O_5$

(1*S*,3*S*,4*R*)-Methyl 3-*O*-acetyl-2-deoxy-α-D-ribofuranoside

$[\alpha]_D^{20} = +129.4$ (*c* 0.06, CH_3CH_2OH)
Source of chirality: 2-deoxy-D-ribose; enzymatic alcoholysis
Absolute configuration: (1*S*,3*S*,4*R*)

Esteban D. Gudiño, Adolfo M. Iribarren, Luis E. Iglesias *

Tetrahedron: Asymmetry *20 (2009) 1813*



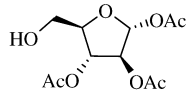
$C_9H_{14}O_6$

(1*R*,3*S*,4*R*)-1,3-Di-*O*-acetyl-2-deoxy-α-D-ribofuranose

$[\alpha]_D^{20} = +89.4$ (*c* 0.04, CH_3CH_2OH)
Source of chirality: 2-deoxy-D-ribose; enzymatic alcoholysis
Absolute configuration: (1*R*,3*S*,4*R*)

Esteban D. Gudiño, Adolfo M. Iribarren, Luis E. Iglesias *

Tetrahedron: Asymmetry *20 (2009) 1813*



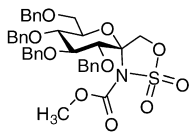
$C_{11}H_{16}O_8$

(1*R*,2*S*,3*R*,4*R*)-1,2,3-Tri-*O*-acetyl-α-D-arabinofuranose

$[\alpha]_D^{20} = -13.3$ (*c* 0.12, CH_3CH_2OH)
Source of chirality: D-arabinose; enzymatic alcoholysis
Absolute configuration: (1*R*,2*S*,3*R*,4*R*)

Mahmoud Benltifa, Miklos De Kiss, Maria Isabel Garcia-Moreno, Carmen Ortiz Mellet, David Gueyrard *, Anne Wadouachi *

Tetrahedron: Asymmetry *20 (2009) 1817*



$[\alpha]_D^{20} = -8$ (c 0.1, $CHCl_3$)
Source of chirality: D-glucose
Absolute configuration: (1*S*,2*R*,3*S*,4*R*,5*R*)

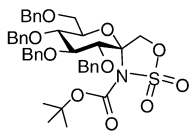
$C_{37}H_{39}NO_{10}S$

(5*S*,7*R*,8*R*,9*S*,10*R*)-8,9,10-Tribenzyloxy-7-benzyloxy)methyl-1-methoxycarbonyl-3,6-dioxa-2-thia-1-azaspiro[4.5]decan-2,2-dioxide

---

Mahmoud Benltifa, Miklos De Kiss, Maria Isabel Garcia-Moreno, Carmen Ortiz Mellet, David Gueyrard *, Anne Wadouachi *

Tetrahedron: Asymmetry *20 (2009) 1817*



$[\alpha]_D^{20} = +30$ (c 0.1, $CHCl_3$)
Source of chirality: D-glucose
Absolute configuration: (5*S*,7*R*,8*R*,9*S*,10*R*)

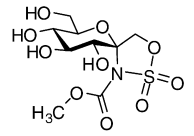
$C_{40}H_{45}NO_{10}S$

(5*S*,7*R*,8*R*,9*S*,10*R*)-8,9,10-Tribenzyloxy-7-benzyloxymethyl-1-*tert*butoxycarbonyl-3,6-dioxa-2-thia-1-azaspiro[4.5]decan-2,2-dioxide

---

Mahmoud Benltifa, Miklos De Kiss, Maria Isabel Garcia-Moreno, Carmen Ortiz Mellet, David Gueyrard *, Anne Wadouachi *

Tetrahedron: Asymmetry *20 (2009) 1817*



$[\alpha]_D^{20} = +19$ (c 0.1, MeOH)
Source of chirality: D-glucose
Absolute configuration: (5*S*,7*R*,8*R*,9*S*,10*R*)

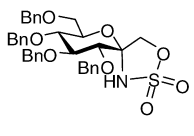
$C_9H_{15}NO_{10}S$

(5*S*,7*R*,8*R*,9*S*,10*R*)-8,9,10-Trihydroxy-7-hydroxymethyl-1-methoxycarbonyl-3,6-dioxa -2-thia-1-azaspiro[4.5]decan-2,2-dioxide

---

Mahmoud Benltifa, Miklos De Kiss, Maria Isabel Garcia-Moreno, Carmen Ortiz Mellet, David Gueyrard *, Anne Wadouachi *

Tetrahedron: Asymmetry *20 (2009) 1817*



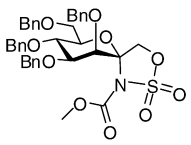
$[\alpha]_D^{20} = -18$ (c 0.1, $CHCl_3$)
Source of chirality: D-glucose
Absolute configuration: (5*S*,7*R*,8*R*,9*S*,10*S*)

$C_{35}H_{37}NO_8S$

(5*S*,7*R*,8*R*,9*S*,10*R*)-8,9,10-Tribenzyloxy-7-benzyloxymethyl-3,6-dioxa-2-thia-1-azaspiro[4.5]decan-2,2-dioxide

Mahmoud Benltifa, Miklos De Kiss, Maria Isabel Garcia-Moreno, Carmen Ortiz Mellet, David Gueyrard *, Anne Wadouachi *

Tetrahedron: Asymmetry *20 (2009) 1817*



$[\alpha]_D^{20} = +36$ (c 0.1, $CHCl_3$)
Source of chirality: D-mannose
Absolute configuration: (5*S*,7*R*,8*R*,9*S*,10*S*)

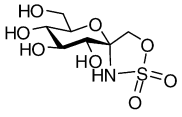
$C_{37}H_{39}NO_{10}S$

(5*S*,7*R*,8*R*,9*S*,10*S*)-8,9,10-Tribenzyloxy-7-benzyloxymethyl-1-methoxycarbonyl-3,6-dioxa-2-thia-1-azaspiro[4.5]decan-2,2-dioxide

---

Mahmoud Benltifa, Miklos De Kiss, Maria Isabel Garcia-Moreno, Carmen Ortiz Mellet, David Gueyrard *, Anne Wadouachi *

Tetrahedron: Asymmetry *20 (2009) 1817*



$[\alpha]_D^{20} = +26$ (c 0.1, MeOH)
Source of chirality: D-glucose
Absolute configuration: (5*S*,7*R*,8*R*,9*S*,10*R*)

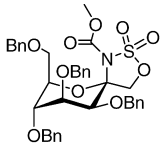
$C_7H_{13}NO_8S$

(5*S*,7*R*,8*R*,9*S*,10*R*)-8,9,10-Trihydroxy-7-hydroxymethyl-3,6-dioxa-2-thia-1-azaspiro[4.5]decan-2,2-dioxide

---

Mahmoud Benltifa, Miklos De Kiss, Maria Isabel Garcia-Moreno, Carmen Ortiz Mellet, David Gueyrard *, Anne Wadouachi *

Tetrahedron: Asymmetry *20 (2009) 1817*



$[\alpha]_D^{20} = +12$ (c 0.1, $CHCl_3$)
Source of chirality: D-mannose
Absolute configuration: (5*R*,7*R*,8*R*,9*S*,10*S*)

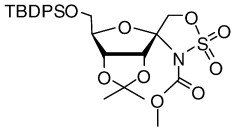
$C_{37}H_{39}NO_{10}S$

(5*R*,7*R*,8*R*,9*S*,10*S*)-8,9,10-Tribenzyloxy-7-benzyloxymethyl-1-methoxycarbonyl-3,6-dioxa-2-thia-1-azaspiro[4.5]decan-2,2-dioxide

---

Mahmoud Benltifa, Miklos De Kiss, Maria Isabel Garcia-Moreno, Carmen Ortiz Mellet, David Gueyrard *, Anne Wadouachi *

Tetrahedron: Asymmetry *20 (2009) 1817*



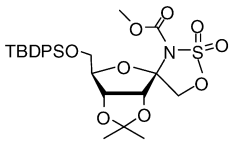
$[\alpha]_D^{20} = -28$ (c 0.1, $CHCl_3$)
Source of chirality: D-ribose
Absolute configuration: (5*S*,7*R*,8*S*,9*S*)

$C_{27}H_{35}NO_5SSi$

(5*S*,7*R*,8*S*,9*S*)-8,9-Dimethylmethylenedioxy-7-*tert*-butyldiphenylsilyloxymethyl-1-methoxycarbonyl-3,6-dioxa-2-thia-1-azaspiro[4.4]nonan-2,2-dioxide

Mahmoud Benltifa, Miklos De Kiss, Maria Isabel Garcia-Moreno, Carmen Ortiz Mellet, David Gueyrard *, Anne Wadouachi *

Tetrahedron: Asymmetry *20 (2009) 1817*



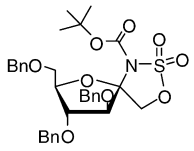
$[\alpha]_D^{20} = -56$ (*c* 0.1, $CHCl_3$)
Source of chirality: D-ribose
Absolute configuration: (5*R*,7*R*,8*S*,9*S*)

$C_{27}H_{35}NO_5SSi$

(5*R*,7*R*,8*S*,9*S*)-8,9-Dimethylmethylenedioxy-7-*tert*-butyldiphenylsilyloxymethyl-1-methoxycarbonyl-3,6-dioxa-2-thia-1-azaspiro[4.4]nonan-2,2-dioxide

Mahmoud Benltifa, Miklos De Kiss, Maria Isabel Garcia-Moreno, Carmen Ortiz Mellet, David Gueyrard *, Anne Wadouachi *

Tetrahedron: Asymmetry *20 (2009) 1817*



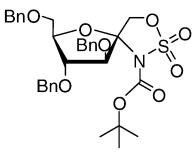
$[\alpha]_D^{20} = +12$ (*c* 0.1, $CHCl_3$)
Source of chirality: D-arabinose
Absolute configuration: (5*R*,7*R*,8*S*,9*R*)

$C_{32}H_{37}NO_9S$

(5*R*,7*R*,8*S*,9*R*)-8,9-Dibenzyloxy-7-benzyloxymethyl-1-*tert*butoxycarbonyl-3,6-dioxa-2-thia-1-azaspiro[4.4]nonan-2,2-dioxide

Mahmoud Benltifa, Miklos De Kiss, Maria Isabel Garcia-Moreno, Carmen Ortiz Mellet, David Gueyrard *, Anne Wadouachi *

Tetrahedron: Asymmetry *20 (2009) 1817*



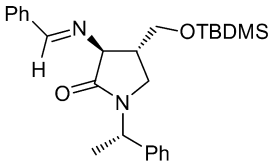
$[\alpha]_D^{20} = +36$ (*c* 0.1, $CHCl_3$)
Source of chirality: D-arabinose
Absolute configuration: (5*S*,7*R*,8*S*,9*R*)

$C_{32}H_{37}NO_9S$

(5*S*,7*R*,8*S*,9*R*)-8,9-Dibenzyloxy-7-benzyloxymethyl-1-*tert*butoxycarbonyl-3,6-dioxa-2-thia-1-azaspiro[4.4]nonan-2,2-dioxide

Emanuela Crucianelli, Gianluca Martelli *, Mario Orena, Samuele Rinaldi, Federica Sgolastra

Tetrahedron: Asymmetry *20 (2009) 1824*



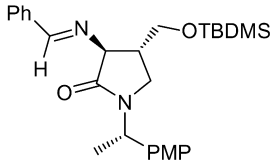
Ee >98%
$[\alpha]_D = -218.4$ (*c* 1.19, $CHCl_3$)
Source of chirality: (*S*)-phenylethylamine
Absolute configuration: 3*S*,4*R*,1′*S*

$C_{26}H_{36}N_2O_2Si$

(3*S*,4*R*,1′*S*)-3-Benzylideneamino-4-*t*-butyldimethylsilyloxymethyl-1-(1′-phenylethyl)pyrrolidin-2-one

Emanuela Crucianelli, Gianluca Martelli *, Mario Orena, Samuele Rinaldi, Federica Sgolastra

Tetrahedron: Asymmetry *20 (2009) 1824*



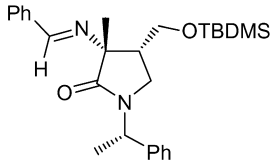
Ee >98%
$[\alpha]_D = -230.7$ (*c* 1.04, $CHCl_3$)
Source of chirality: (*S*)-4-methoxyphenylethylamine
Absolute configuration: 3*S*,4*R*,1′*S*

$C_{27}H_{38}N_2O_3Si$

(3*S*,4*R*,1′*S*)-3-Benzylideneamino-4-[(*t*-butyldimethylsilyloxy)methyl]-1-[1′-(4-methoxyphenyl)ethyl]pyrrolidin-2-one

Emanuela Crucianelli, Gianluca Martelli *, Mario Orena, Samuele Rinaldi, Federica Sgolastra

Tetrahedron: Asymmetry *20 (2009) 1824*



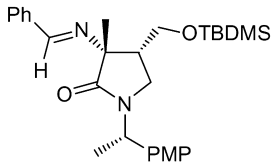
Ee >98%
$[\alpha]_D = -6.7$ (*c* 0.74, $CHCl_3$)
Source of chirality: (*S*)-phenylethylamine
Absolute configuration: 3*R*,4*R*,1′*S*

$C_{27}H_{38}N_2O_2Si$

(3*R*,4*R*,1′*S*)-3-Benzylideneamino-4-*t*-butyldimethylsilyloxymethyl-3-methyl-1-(1′-phenylethyl)pyrrolidin-2-one

Emanuela Crucianelli, Gianluca Martelli *, Mario Orena, Samuele Rinaldi, Federica Sgolastra

Tetrahedron: Asymmetry *20 (2009) 1824*



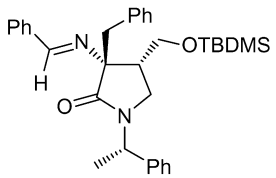
Ee >98%
$[\alpha]_D = -17.5$ (*c* 1.14, $CHCl_3$)
Source of chirality: (*S*)-4-methoxyphenylethylamine
Absolute configuration: 3*R*,4*R*,1′*S*

$C_{28}H_{40}N_2O_3Si$

(3*R*,4*R*,1′*S*)-3-Benzylideneamino-4-*t*-butyldimethylsilyloxymethyl-1-[1′-(4-methoxyphenyl)ethyl]-3-methylpyrrolidin-2-one

Emanuela Crucianelli, Gianluca Martelli *, Mario Orena, Samuele Rinaldi, Federica Sgolastra

Tetrahedron: Asymmetry *20 (2009) 1824*



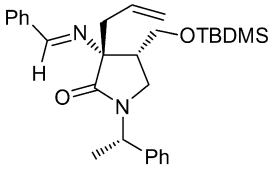
Ee >98%
$[\alpha]_D = -22.7$ (*c* 1.25, $CHCl_3$)
Source of chirality: (*S*)-phenylethylamine
Absolute configuration: 3*R*,4*R*,1′*S*

$C_{33}H_{42}N_2O_2Si$

(3*R*,4*R*,1′*S*)-3-Benzyl-3-benzylideneamino-4-*t*-butyldimethylsilyloxymethyl-1-(1′-phenylethyl)pyrrolidin-2-one

Emanuela Crucianelli, Gianluca Martelli *, Mario Orena, Samuele Rinaldi, Federica Sgolastra

Tetrahedron: Asymmetry *20 (2009) 1824*



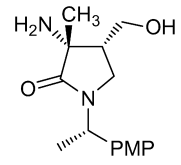
Ee >98%
$[\alpha]_D = -31.7$ (*c* 1.5, $CHCl_3$)
Source of chirality: (*S*)-phenylethylamine
Absolute configuration: 3*R*,4*R*,1′*S*

$C_{29}H_{40}N_2O_2Si$

(3*R*,4*R*,1′*S*)-3-Allyl-3-benzylideneamino-4-*t*-butyldimethylsilyloxymethyl-1-(1′-phenylethyl)pyrrolidin-2-one

Emanuela Crucianelli, Gianluca Martelli *, Mario Orena, Samuele Rinaldi, Federica Sgolastra

Tetrahedron: Asymmetry *20 (2009) 1824*



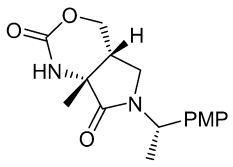
Ee >98%
$[\alpha]_D = -110.0$ (*c* 0.54, $CHCl_3$)
Source of chirality: (*S*)-4-methoxyphenylethylamine
Absolute configuration: 3*R*,4*R*,1′*S*

$C_{15}H_{22}N_2O_3$

(3*R*,4*R*,1′*S*)-3-Amino-4-hydroxymethyl-1-[1′-(4-methoxyphenyl)ethyl]-3-methylpyrrolidin-2-one

Emanuela Crucianelli, Gianluca Martelli *, Mario Orena, Samuele Rinaldi, Federica Sgolastra

Tetrahedron: Asymmetry *20 (2009) 1824*



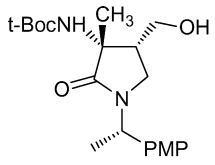
Ee >98%
$[\alpha]_D = -108.2$ (*c* 1.04, $CHCl_3$)
Source of chirality: (*S*)-4-methoxyphenylethylamine
Absolute configuration: 4a*R*,7a*R*,1′*S*

$C_{16}H_{20}N_2O_4$

(4a*R*,7a*R*,1′*S*)-6-[-1′-(4-Methoxyphenyl)ethyl]-7a-methylhexahydropyrrolo[3,4-d][1,3]oxazine-2,7-dione

Emanuela Crucianelli, Gianluca Martelli *, Mario Orena, Samuele Rinaldi, Federica Sgolastra

Tetrahedron: Asymmetry *20 (2009) 1824*



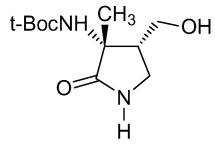
Ee >98%
$[\alpha]_D = -125.0$ (*c* 1.16, $CHCl_3$)
Source of chirality: (*S*)-4-methoxyphenylethylamine
Absolute configuration: 3*R*,4*R*,1′*S*

$C_{20}H_{30}N_2O_5$

(3*R*,4*R*,1′*S*)-3-*t*-Butoxycarbonylamino-4-hydroxymethyl-1-[1′-(4-methoxyphenyl)ethyl]-3-methylpyrrolidin-2-one

Emanuela Crucianelli, Gianluca Martelli *, Mario Orena, Samuele Rinaldi, Federica Sgolastra

Tetrahedron: Asymmetry *20 (2009) 1824*



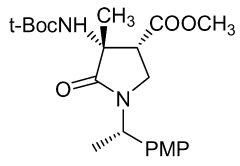
Ee >98%
$[\alpha]_D = -50.0$ (*c* 0.6, $CHCl_3$)
Source of chirality: (*S*)-4-methoxyphenylethylamine
Absolute configuration: 3*R*,4*R*

$C_{11}H_{20}N_2O_4$

(3*R*,4*R*)-3-*t*-Butoxycarbonylamino-4-hydroxymethyl-3-methylpyrrolidin-2-one

Emanuela Crucianelli, Gianluca Martelli *, Mario Orena, Samuele Rinaldi, Federica Sgolastra

Tetrahedron: Asymmetry *20 (2009) 1824*



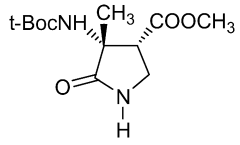
Ee >98%
$[\alpha]_D = -104.5$ (*c* 1.32, $CHCl_3$)
Source of chirality: (*S*)-4-methoxyphenylethylamine
Absolute configuration: 3*R*,4*R*,1′*S*

$C_{21}H_{30}N_2O_6$

(3*R*,4*R*,1′*S*)-Methyl 4-*t*-butoxycarbonylamino-1-[1′-(4-methoxyphenyl)ethyl]-4-methyl-5-oxopyrrolidine-3-carboxylate

Emanuela Crucianelli, Gianluca Martelli *, Mario Orena, Samuele Rinaldi, Federica Sgolastra

Tetrahedron: Asymmetry *20 (2009) 1824*



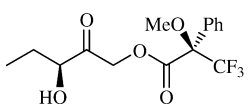
Ee >98%
$[\alpha]_D = -43.8$ (*c* 0.57, $CHCl_3$)
Source of chirality: (*S*)-4-methoxyphenylethylamine
Absolute configuration: 3*R*,4*R*

$C_{12}H_{20}N_2O_5$

(3*R*,4*R*)-Methyl 4-*t*-butoxycarbonylamino-4-methyl-5-oxopyrrolidine-3-carboxylate

James L. Galman, Helen C. Hailes *

Tetrahedron: Asymmetry *20 (2009) 1828*



De = 55% [(2*R*,3′*S*)-major isomer, (2*R*,3′*R*) present]
$[\alpha]_D^{20} = +13.3$ (*c* 0.15, $CHCl_3$)
Source of chirality: biocatalysis
Absolute configuration: (2*R*,3′*S*)

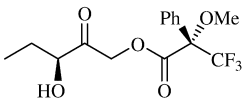
$C_{15}H_{17}F_3O_5$

(2*R*,3′*S*) 3,3,3-Trifluoro-2-methoxy-2-phenylpropionic acid 3′-hydroxy-2′-oxo-pentyl ester

James L. Galman, Helen C. Hailes *

Tetrahedron: Asymmetry *20 (2009) 1828*

De = 55% [(2*S*,3′*S*)-major isomer, (2*S*,3′*R*) present]
$[\alpha]_D^{20} = -37.0$ (*c* 0.1, $CHCl_3$)
Source of chirality: biocatalysis
Absolute configuration: (2*S*,3′*S*)



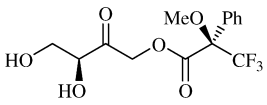
$C_{15}H_{17}F_3O_5$

(2*S*,3′*S*) 3,3,3-Trifluoro-2-methoxy-2-phenylpropionic acid 3′-hydroxy-2′-oxo-pentyl ester

James L. Galman, Helen C. Hailes *

Tetrahedron: Asymmetry *20 (2009) 1828*

De = >95% (2*R*,3′*S*)
$[\alpha]_D^{20} = +10.2$ (*c* 0.4, $CHCl_3$)
Source of chirality: biocatalysis
Absolute configuration: (2*R*,3′*S*)



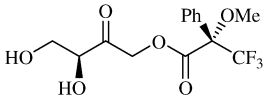
$C_{14}H_{15}F_3O_6$

(2*R*,3′*S*) 3,3,3-Trifluoro-2-methoxy-2-phenylpropionic acid 3′,4′-dihydroxy-2′-oxo-butyl ester

James L. Galman, Helen C. Hailes *

Tetrahedron: Asymmetry *20 (2009) 1828*

De = >95% (2*S*,3′*S*)
$[\alpha]_D^{20} = -14.4$ (*c* 0.5, $CHCl_3$)
Source of chirality: biocatalysis
Absolute configuration: (2*S*,3′*S*)



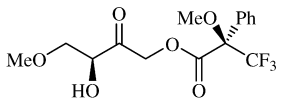
$C_{14}H_{15}F_3O_6$

(2*S*,3′*S*) 3,3,3-Trifluoro-2-methoxy-2-phenylpropionic acid 3′,4′-dihydroxy-2′-oxo-butyl ester

James L. Galman, Helen C. Hailes *

Tetrahedron: Asymmetry *20 (2009) 1828*

De = 57% [(2*R*,3′*S*)-major isomer, (2*R*,3′*R*) present]
$[\alpha]_D^{20} = +23.2$ (*c* 0.25, $CHCl_3$)
Source of chirality: biocatalysis
Absolute configuration: (2*R*,3′*S*)



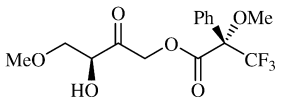
$C_{15}H_{17}F_3O_6$

(2*R*,3′*S*) 3,3,3-Trifluoro-2-methoxy-2-phenylpropionic acid 3′-hydroxy-4′-methoxy-2′-oxo-butyl ester

James L. Galman, Helen C. Hailes *

Tetrahedron: Asymmetry *20 (2009) 1828*

De = 57% [(2*S*,3′*S*)-major isomer, (2*S*,3′*R*) present]
$[\alpha]_D^{20} = -10.6$ (*c* 0.25, $CHCl_3$)
Source of chirality: biocatalysis
Absolute configuration: (2*S*,3′*S*)



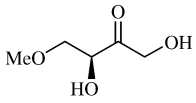
$C_{15}H_{17}F_3O_6$

(2*S*,3′*S*) 3,3,3-Trifluoro-2-methoxy-2-phenylpropionic acid 3′-hydroxy-4′-methoxy-2′-oxo-butyl ester

James L. Galman, Helen C. Hailes *

Tetrahedron: Asymmetry *20 (2009) 1828*

Ee = 57% [(3*S*)-major isomer]
$[\alpha]_D^{20} = +2.0$ (*c* 2.0, $CHCl_3$)
Source of chirality: biocatalysis
Absolute configuration: (3*S*)



$C_5H_{10}O_4$

(3*S*)-1,3-Dihydroxy-4-methoxybutan-2-one