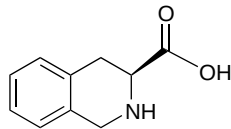


Remedios Sánchez, Héctor Luna,* Herminia I. Pérez,
Norberto Manjarrez and Aida Solís

Tetrahedron: Asymmetry 12 (2001) 1399



(3*S*)-1,2,3,4-Tetrahydroisoquinoline-3-carboxylic acid

E.e. = 89%

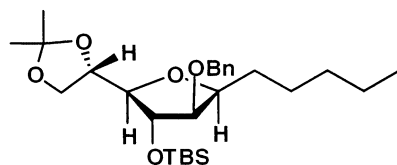
$[\alpha]_{\text{D}} = -138$ (*c* 1.0, MeOH)

Source of chirality: resolution by enzymatic hydrolysis

Absolute configuration: *S*

Hidemi Yoda,* Kazuhide Maruyama and Kunihiko Takabe

Tetrahedron: Asymmetry 12 (2001) 1403



4-Benzyloxy-3-(*tert*-butyltrimethylsilyloxy)-2-(1,2-*O*-isopropylidene)-5-pentyltetrahydrofuran

E.e. >99% (determined by HPLC)

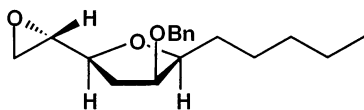
$[\alpha]_{\text{D}}^{23} +11.6$ (*c* 1.12, CHCl₃)

Source of chirality: asymmetric synthesis

Absolute configuration (2*R*,1*S*,3*R*,4*R*,5*S*)

Hidemi Yoda,* Kazuhide Maruyama and Kunihiko Takabe

Tetrahedron: Asymmetry 12 (2001) 1403



4-Benzyloxy-2-(1,2-epoxy)-5-pentyltetrahydrofuran

E.e. >99% (determined by HPLC)

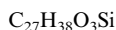
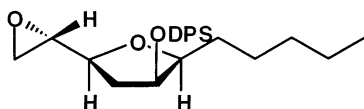
$[\alpha]_{\text{D}}^{25} +44.9$ (*c* 0.97, CHCl₃)

Source of chirality: asymmetric synthesis

Absolute configuration (2*S*,1*S*,4*S*,5*S*)

Hidemi Yoda,* Kazuhide Maruyama and Kunihiko Takabe

Tetrahedron: Asymmetry 12 (2001) 1403



4-(*tert*-Butyldiphenylsilyloxy)-2-(1,2-epoxy)-5-pentyltetrahydrofuran

E.e. >99% (determined by HPLC)

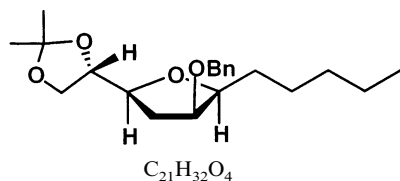
$[\alpha]_{\text{D}}^{24} +33.2$ (*c* 0.66, CHCl₃)

Source of chirality: asymmetric synthesis

Absolute configuration (2*S*,1*S*,3*S*,5*S*)

Hidemi Yoda,* Kazuhide Maruyama and Kunihiro Takabe

Tetrahedron: Asymmetry 12 (2001) 1403

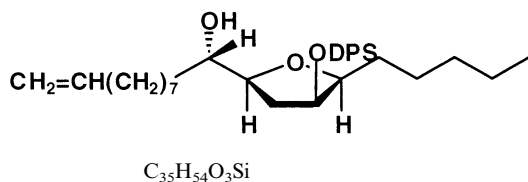


4-Benzyloxy-2-(1,2-*O*-isopropylidene)-5-pentyltetrahydrofuran

E.e. >99% (determined by HPLC)
 $[\alpha]_D^{23} +21.5$ (*c* 1.01, $CHCl_3$)
 Source of chirality: asymmetric synthesis
 Absolute configuration (2*S*,1*S*,4*S*,5*S*)

Hidemi Yoda,* Kazuhide Maruyama and Kunihiro Takabe

Tetrahedron: Asymmetry 12 (2001) 1403

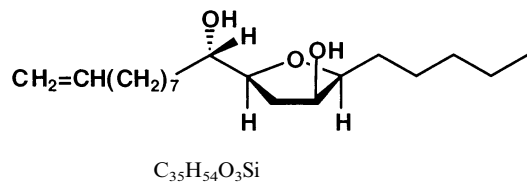


7-(*tert*-Butyldiphenylsilyl)oxy-6,9-epoxynonadec-18-ene-10-ol

E.e. >99% (determined by HPLC)
 $[\alpha]_D^{24.5} +20.6$ (*c* 0.32, $CHCl_3$)
 Source of chirality: asymmetric synthesis
 Absolute configuration (6*S*,7*S*,9*S*,10*S*)

Hidemi Yoda,* Kazuhide Maruyama and Kunihiro Takabe

Tetrahedron: Asymmetry 12 (2001) 1403

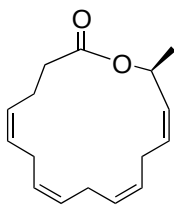


6,9-Epoxynonadec-18-ene-7,10-diol

E.e. >99% (determined by HPLC)
 $[\alpha]_D^{23.2} +23.7$ (*c* 0.42, $CHCl_3$)
 Source of chirality: asymmetric synthesis
 Absolute configuration (6*S*,7*S*,9*S*,10*S*)

Trond Vidar Hansen and Yngve Stenstrøm*

Tetrahedron: Asymmetry 12 (2001) 1407

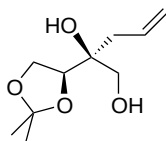


(16*S*)-(-)-Methyloxacyclohexadeca-(5*Z*,8*Z*,11*Z*,14*Z*)-tetraen-2-one

E.e. = 98.0%
 $[\alpha]_D^{25} = -55.5$ (*c* 0.3, $CHCl_3$)
 Source of chirality: 3-butyn-(2*S*)-acetate
 Absolute configuration: (16*S*)

Miguel Carda,* Encarna Castillo, Santiago Rodríguez,
Florenci González and J. Alberto Marco*

Tetrahedron: Asymmetry 12 (2001) 1417

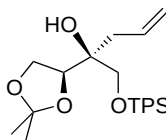


$C_{10}H_{18}O_4$
2-(2,2-Dimethyl-1,3-dioxolan-4-yl)-4-pentene-1,2-diol

E.e. >96% (by preparation method)
 $[\alpha]_D^{22} = +7.1$ ($c = 4.8$, $CHCl_3$)
 Source of chirality: synthesis from L-erythrulose
 Absolute configuration: (2*S*,4'*S*)

Miguel Carda,* Encarna Castillo, Santiago Rodríguez,
Florenci González and J. Alberto Marco*

Tetrahedron: Asymmetry 12 (2001) 1417

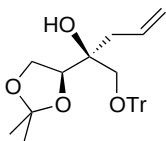


$C_{26}H_{36}O_4Si$
1-*O*-(*t*-Butyldiphenylsilyl)-2-(2,2-dimethyl-1,3-dioxolan-4-yl)-4-pentene-1,2-diol

E.e. >96% (by preparation method)
 $[\alpha]_D^{22} = +2.8$ ($c = 4$, $CHCl_3$)
 Source of chirality: synthesis from L-erythrulose
 Absolute configuration: (2*S*,4'*S*)

Miguel Carda,* Encarna Castillo, Santiago Rodríguez,
Florenci González and J. Alberto Marco*

Tetrahedron: Asymmetry 12 (2001) 1417

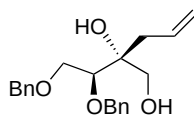


$C_{29}H_{32}O_4$
1-*O*-(Trityl)-2-(2,2-Dimethyl-1,3-dioxolan-4-yl)-4-pentene-1,2-diol

E.e. >96% (by preparation method)
 $[\alpha]_D^{22} = -7.1$ ($c = 6.6$, $CHCl_3$)
 Source of chirality: synthesis from L-erythrulose
 Absolute configuration: (2*S*,4'*S*)

Miguel Carda,* Encarna Castillo, Santiago Rodríguez,
Florenci González and J. Alberto Marco*

Tetrahedron: Asymmetry 12 (2001) 1417

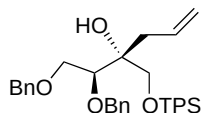


$C_{21}H_{26}O_4$
2-[1,2-Bis(benzyloxy)ethyl]-4-pentene-1,2-diol

E.e. >96% (by preparation method)
 $[\alpha]_D^{22} = +24.7$ ($c = 2.2$, $CHCl_3$)
 Source of chirality: synthesis from L-erythrulose
 Absolute configuration: (2*R*,1'*S*)

Miguel Carda,* Encarna Castillo, Santiago Rodríguez,
Florenci González and J. Alberto Marco*

Tetrahedron: Asymmetry 12 (2001) 1417

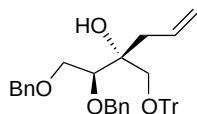


$C_{37}H_{44}O_4Si$
1-*O*-(*t*-Butyldiphenylsilyl)-2-[1,2-bis(benzyloxy)ethyl]-4-pentene-1,2-diol

E.e. >96% (by preparation method)
 $[\alpha]_D^{22} = -2.4$ ($c = 11.8$, $CHCl_3$)
 Source of chirality: synthesis from L-erythrulose
 Absolute configuration: (2*R*,1'*S*)

Miguel Carda,* Encarna Castillo, Santiago Rodríguez,
Florenci González and J. Alberto Marco*

Tetrahedron: Asymmetry 12 (2001) 1417

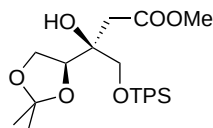


$C_{40}H_{40}O_4$
1-*O*-Trityl-2-[1,2-bis(benzyloxy)ethyl]-4-pentene-1,2-diol

E.e. >96% (by preparation method)
 $[\alpha]_D^{22} = -2.4$ ($c = 11.4$, $CHCl_3$)
 Source of chirality: synthesis from L-erythrulose
 Absolute configuration: (2*R*,1'*S*)

Miguel Carda,* Encarna Castillo, Santiago Rodríguez,
Florenci González and J. Alberto Marco*

Tetrahedron: Asymmetry 12 (2001) 1417

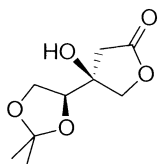


$C_{26}H_{36}O_6Si$
Methyl 4-(*t*-butyldiphenylsilyloxy)-3-(2,2-dimethyl-1,3-dioxolan-4-yl)-3-hydroxybutanoate

E.e. >96% (by preparation method)
 $[\alpha]_D^{22} = -9.2$ ($c = 0.35$, $CHCl_3$)
 Source of chirality: synthesis from L-erythrulose
 Absolute configuration: (3*S*,4'*S*)

Miguel Carda,* Encarna Castillo, Santiago Rodríguez,
Florenci González and J. Alberto Marco*

Tetrahedron: Asymmetry 12 (2001) 1417

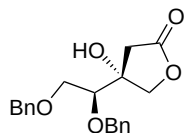


$C_9H_{14}O_5$
4-(2,2-Dimethyl-1,3-dioxolan-4-yl)-4-hydroxytetrahydrofuran-2-one

E.e. >96% (by preparation method)
 $[\alpha]_D^{22} = -35.4$ ($c = 1.4$, $CHCl_3$)
 Source of chirality: synthesis from L-erythrulose
 Absolute configuration: (4*S*,4'*S*)

Miguel Carda,* Encarna Castillo, Santiago Rodríguez,
Florenci González and J. Alberto Marco*

Tetrahedron: Asymmetry 12 (2001) 1417

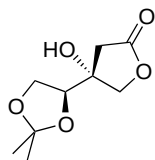


$C_{20}H_{23}O_5$
4-[1,2-Bis(benzyloxy)ethyl]-4-hydroxy-tetrahydrofuran-2-one

E.e. >96% (by preparation method)
 $[\alpha]_D^{22} = +46.5$ ($c = 2$, $CHCl_3$)
 Source of chirality: synthesis from L-erythrulose
 Absolute configuration: (4*R*,1'*S*)

Miguel Carda,* Encarna Castillo, Santiago Rodríguez,
Florenci González and J. Alberto Marco*

Tetrahedron: Asymmetry 12 (2001) 1417

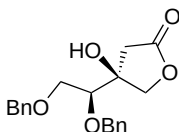


$C_9H_{14}O_5$
4-(2,2-Dimethyl-1,3-dioxolan-4-yl)-4-hydroxy-tetrahydrofuran-2-one

E.e. >96% (by preparation method)
 $[\alpha]_D^{22} = +9.1$ ($c = 1.5$, $CHCl_3$)
 Source of chirality: synthesis from L-erythrulose
 Absolute configuration: (4*R*,4'*S*)

Miguel Carda,* Encarna Castillo, Santiago Rodríguez,
Florenci González and J. Alberto Marco*

Tetrahedron: Asymmetry 12 (2001) 1417

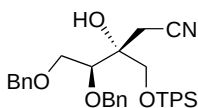


$C_{20}H_{23}O_5$
4-[1,2-Bis(benzyloxy)ethyl]-4-hydroxy-tetrahydrofuran-2-one

E.e. >96% (by preparation method)
 $[\alpha]_D^{22} = +26.7$ ($c = 3.4$, $CHCl_3$)
 Source of chirality: synthesis from L-erythrulose
 Absolute configuration: (4*S*,1'*S*)

Miguel Carda,* Encarna Castillo, Santiago Rodríguez,
Florenci González and J. Alberto Marco*

Tetrahedron: Asymmetry 12 (2001) 1417

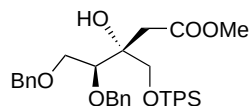


$C_{35}H_{39}NO_4Si$
4,5-Bis(benzyloxy)-3-(*t*-butyldiphenylsilyloxymethyl)-3-hydroxypentanenitrile

E.e. >96% (by preparation method)
 $[\alpha]_D^{22} = +6.7$ ($c = 4.2$, $CHCl_3$)
 Source of chirality: synthesis from L-erythrulose
 Absolute configuration: (3*R*,4*S*)

Miguel Carda,* Encarna Castillo, Santiago Rodríguez,
Florenci González and J. Alberto Marco*

Tetrahedron: Asymmetry 12 (2001) 1417



$C_{36}H_{42}O_6Si$

Methyl 4,5-bis(benzyloxy)-3-(*t*-butyldiphenylsilyloxymethyl)-3-hydroxypentanoate

E.e. >96% (by preparation method)

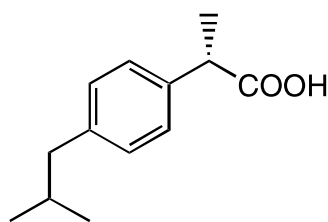
$[\alpha]_D^{22} = +7.5$ ($c = 2.2$, $CHCl_3$)

Source of chirality: synthesis from L-erythrulose

Absolute configuration: (3*R*,4*S*)

Ish Kumar, Kavita Manju and Ravinder S. Jolly*

Tetrahedron: Asymmetry 12 (2001) 1431



$C_{13}H_{18}O_2$

(*S*)-2-(4-Isobutylphenyl)propanoic acid (ibuprofen)

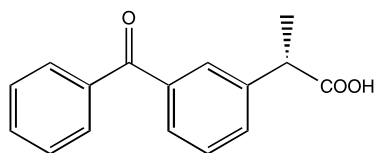
E.e. >99%

Source of chirality: biocatalyzed resolution

Absolute configuration: *S*

Ish Kumar, Kavita Manju and Ravinder S. Jolly*

Tetrahedron: Asymmetry 12 (2001) 1431



$C_{16}H_{14}O_3$

(*S*)-2-(3-Benzoylphenyl)propanoic acid (ketoprofen)

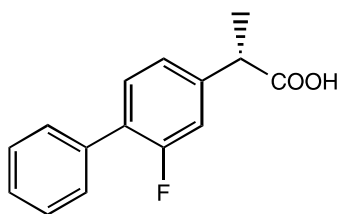
E.e. >99%

Source of chirality: biocatalyzed resolution

Absolute configuration: *S*

Ish Kumar, Kavita Manju and Ravinder S. Jolly*

Tetrahedron: Asymmetry 12 (2001) 1431



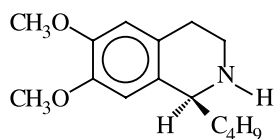
$C_{15}H_{13}FO_2$

(*S*)-2-(2-Fluoro-4-biphenyl)propanoic acid (flurbiprofen)

E.e. >99%

Source of chirality: biocatalyzed resolution

Absolute configuration: *S*



$C_{15}H_{23}NO_2$
(S)-1-n-Butyl-6,7-dimethoxy-1,2,3,4-tetrahydroisoquinoline

E.e. = 46.5%

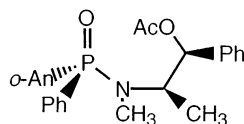
 $[\alpha]_D^{20} = -20.3$ ($c = 0.73$, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: S

Jacques Uziel, Christophe Darcel, Dominique Moulin,
Christophe Bauduin and Sylvain Jugé*

Tetrahedron: Asymmetry 12 (2001) 1441



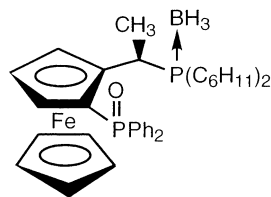
$C_{25}H_{28}NO_4P$
(Sp)-(+)-N-Methyl-N-[(1S,2R)(1-acetoxy-2-methyl-1-phenyl-prop-2-yl)]-amino-o-anisylphenyl phosphine oxide

 $[\alpha]_D^{20} = +1.5$ ($c = 0.6$, $CHCl_3$)

Source of chirality: (+)-ephedrine starting material

Jacques Uziel, Christophe Darcel, Dominique Moulin,
Christophe Bauduin and Sylvain Jugé*

Tetrahedron: Asymmetry 12 (2001) 1441

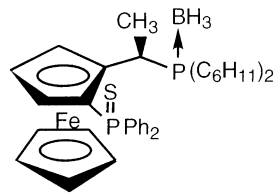


$C_{36}H_{47}BF_2OP_2$
(R)-(-)-1-(Dicyclohexylphosphino borane)-1-[2-(diphenylphosphino oxide)-ferrocenyl] ethane

 $[\alpha]_D^{20} = -127.5$ ($c = 0.5$, $CHCl_3$)

Jacques Uziel, Christophe Darcel, Dominique Moulin,
Christophe Bauduin and Sylvain Jugé*

Tetrahedron: Asymmetry 12 (2001) 1441

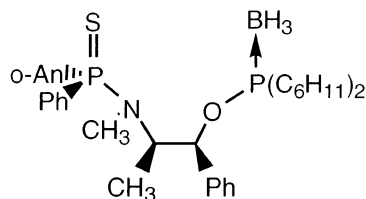


$C_{36}H_{47}BF_2P_2S$
(R)-(-)-1-(Dicyclohexylphosphino borane)-1-[2-(diphenylphosphino sulfide)-ferrocenyl] ethane

 $[\alpha]_D^{20} = -6.6$ ($c = 0.7$, $CHCl_3$)

Jacques Uziel, Christophe Darcel, Dominique Moulin,
Christophe Bauduin and Sylvain Jugé*

Tetrahedron: Asymmetry 12 (2001) 1441

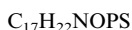
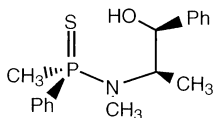


(Sp)-(-)-N-Methyl-N-[(1R,2S)-[1-(dicyclohexylphosphinito borane)-1-phenyl]prop-2-yl]amino-o-anisyl phenylphosphine sulphide

$[\alpha]_D^{20} = -16.2$ (c 1, $CHCl_3$)

Jacques Uziel, Christophe Darcel, Dominique Moulin,
Christophe Bauduin and Sylvain Jugé*

Tetrahedron: Asymmetry 12 (2001) 1441



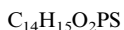
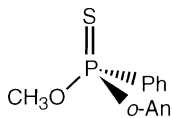
(Rp)-(-)-N-Methyl-N-[(1R,2S)-1-hydroxy-1-phenylprop-2-yl]amino methylphenylphosphine sulfide

$[\alpha]_D^{20} = -1.4$ (c 0.5, $CHCl_3$)

Source of chirality: (+)-ephedrine as starting material

Jacques Uziel, Christophe Darcel, Dominique Moulin,
Christophe Bauduin and Sylvain Jugé*

Tetrahedron: Asymmetry 12 (2001) 1441



(S)-(-)-(O-Methyl)-o-anisylphenylthiophosphinate

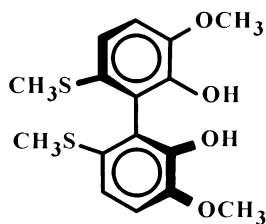
E.e. 90%

$[\alpha]_D^{20} = -42.5$ (c 1.4, $CHCl_3$)

Source of chirality: (-)-ephedrine as starting material

Giovanna Delogu,* Davide Fabbri, Maria Antonietta Dettori,
Alessandra Forni and Gianluigi Casalone

Tetrahedron: Asymmetry 12 (2001) 1451



(P)-(+)-6,6'-Bis(methylthio)-3,3'-dimethoxy-[1,1'-biphenyl]-2,2'-diol

E.e. = 99% [by 1H NMR of the corresponding diastereomer]

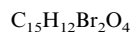
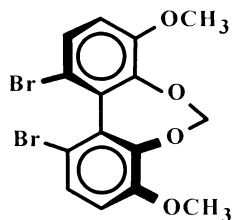
$[\alpha]_D^{20} +16.3$ (c 0.5, $CHCl_3$)

Source of chirality: (-)-(1R,2S,5R)-menthyl chloroformate (e.e. 99%)

Absolute configuration: P

Giovanna Delogu,* Davide Fabbri, Maria Antonietta Dettori,
Alessandra Forni and Gianluigi Casalone

Tetrahedron: Asymmetry 12 (2001) 1451



P-(-)-1,11-Dibromo-4,8-bis(methoxy)dibenzo[2,1-*d'*:2'-*f*][1,3]dioxepine

E.e. = 99% [derived from (*P*)-(+)-6,6'-dibromo-3,3'-dimethoxy-2,2'-dihydroxy-1,1'-biphenyl, 99% e.e.]

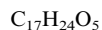
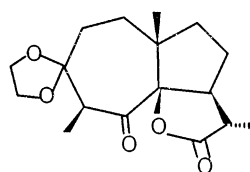
$[\alpha]_D^{20} -393.2$ (*c* 1, $CHCl_3$)

Source of chirality: (-)-(1*R*,2*S*,5*R*)-menthyl chloroformate (e.e. 99%)

Absolute configuration: *P*

Wu Jiong Xia, De Run Li, Lei Shi and Yong Qiang Tu*

Tetrahedron: Asymmetry 12 (2001) 1459



(-)-(4*S*,6*R*,7*S*,10*S*,11*S*)-3,3-Ethylenedioxy-5-keto-6-hydroxy-12-salvialtone

E.e. 100%

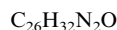
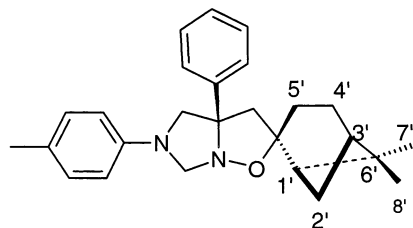
$[\alpha]_D^{25} = -91$ (*c* 0.01, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (4*S*,6*R*,7*S*,10*S*,11*S*)

Necdet Coşkun,* Fatma Tirli Tat and Özden Özel Güven

Tetrahedron: Asymmetry 12 (2001) 1463



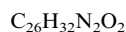
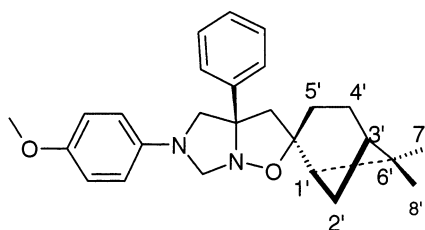
$[\alpha]_D^{20} = +212$ (*c* = 0.50, $CHCl_3$)

Source of chirality: (1*S*)-(-)-β-pinene

Absolute configuration: (2*R*,3*aR*)

Necdet Coşkun,* Fatma Tirli Tat and Özden Özel Güven

Tetrahedron: Asymmetry 12 (2001) 1463



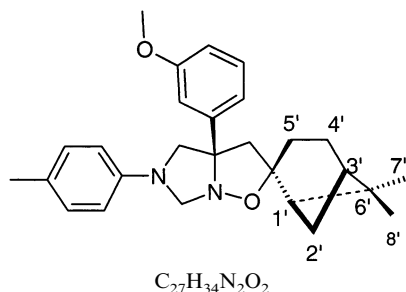
$[\alpha]_D^{20} = +92$ (*c* = 0.50, $CHCl_3$)

Source of chirality: (1*S*)-(-)-β-pinene

Absolute configuration: (2*R*,3*aR*)

Necdet Coşkun,* Fatma Tirli Tat and Özden Özel Güven

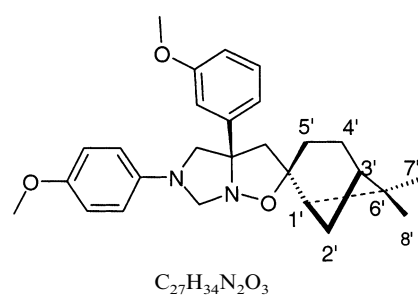
Tetrahedron: Asymmetry 12 (2001) 1463



$[\alpha]_D^{20} = +137.5$ ($c=0.40$, $CHCl_3$)
 Source of chirality: (1*S*)-(-)-β-pinene
 Absolute configuration: (2*R*,3*aR*)

Necdet Coşkun,* Fatma Tirli Tat and Özden Özel Güven

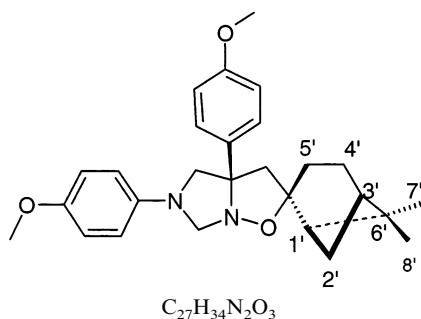
Tetrahedron: Asymmetry 12 (2001) 1463



$[\alpha]_D^{20} = +93.75$ ($c=0.40$, $CHCl_3$)
 Source of chirality: (1*S*)-(-)-β-pinene
 Absolute configuration: (2*R*,3*aR*)

Necdet Coşkun,* Fatma Tirli Tat and Özden Özel Güven

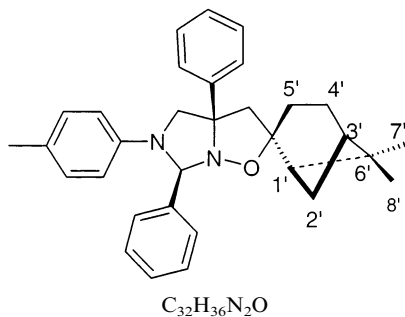
Tetrahedron: Asymmetry 12 (2001) 1463



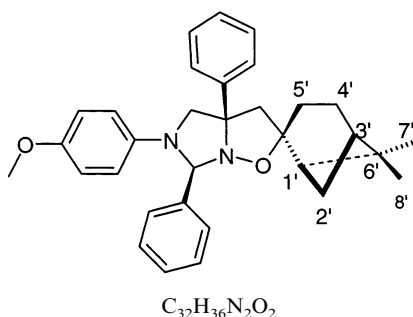
$[\alpha]_D^{20} = +100$ ($c=0.40$, $CHCl_3$)
 Source of chirality: (1*S*)-(-)-β-pinene
 Absolute configuration: (2*R*,3*aR*)

Necdet Coşkun,* Fatma Tirli Tat and Özden Özel Güven

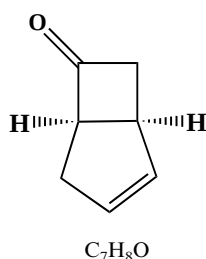
Tetrahedron: Asymmetry 12 (2001) 1463



$[\alpha]_D^{20} = +80$ ($c=0.50$, $CHCl_3$)
 Source of chirality: (1*S*)-(-)-β-pinene
 Absolute configuration: (2*R*,3*aR*,6*S*)

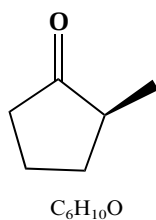


$[\alpha]_D^{20} = (+)97.7$ ($c = 0.44$, CHCl_3)
 Source of chirality: (1*S*)-(–)-β-pinene
 Absolute configuration: (2*R*,3*aR*,6*S*)



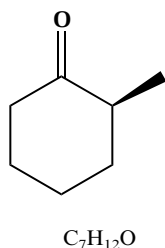
(–)-(1*S*,5*R*)-Bicyclo[3.2.0]-hept-2-en-6-one

E.e. 95%
 Absolute configuration (–)-(1*S*,5*R*)
 Specific rotation $[\alpha]_D^{20} = -60$ (c 1.2, CHCl_3)
 Source of chirality: enantioselective resolution by inclusion



(+)-(S)-2-Methylcyclopentanone

E.e. 13%
 Absolute configuration (+)-(S)
 Specific rotation $[\alpha]_D^{20} = +16$ (c 1, CH_3OH)
 Source of chirality: enantioselective resolution by inclusion

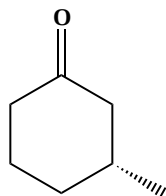


(+)-(S)-2-Methylcyclohexanone

E.e. 70%
 Absolute configuration (+)-(S)
 Specific rotation $[\alpha]_D^{20} = +12$ (neat)
 Source of chirality: enantioselective resolution by inclusion

Valerio Bertolasi, Olga Bortolini, Marco Fogagnolo, Giancarlo Fantin* and Paola Pedrini

Tetrahedron: Asymmetry 12 (2001) 1479



(+)-(R)-3-Methylcyclohexanone

E.e. 90%

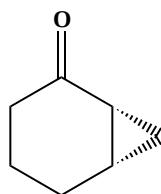
Absolute configuration (+)-(R)

Specific rotation $[\alpha]_D^{20} = +12.9$ (*c* 0.01, $CHCl_3$)

Source of chirality: enantioselective resolution by inclusion

Valerio Bertolasi, Olga Bortolini, Marco Fogagnolo, Giancarlo Fantin* and Paola Pedrini

Tetrahedron: Asymmetry 12 (2001) 1479



(+)-(1R,6S)-Bicyclo[4.1.0]-heptan-2-one

E.e. 60%

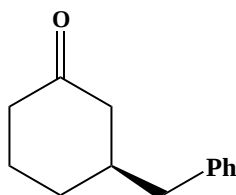
Absolute configuration (+)-(1R,6S)

Specific rotation $[\alpha]_D^{20} = +11$ (*c* 2, $CHCl_3$)

Source of chirality: enantioselective resolution by inclusion

Valerio Bertolasi, Olga Bortolini, Marco Fogagnolo, Giancarlo Fantin* and Paola Pedrini

Tetrahedron: Asymmetry 12 (2001) 1479



(+)-(S)-3-Benzylcyclohexanone

E.e. 70%

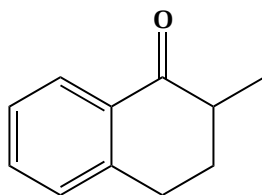
Absolute configuration (+)-(S)

Specific rotation $[\alpha]_D^{20} = +20$ (*c* 1, $CHCl_3$)

Source of chirality: enantioselective resolution by inclusion

Valerio Bertolasi, Olga Bortolini, Marco Fogagnolo, Giancarlo Fantin* and Paola Pedrini

Tetrahedron: Asymmetry 12 (2001) 1479



(+)-2-Methyl-1-indanone

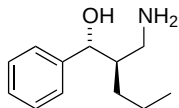
E.e. 30%

Specific rotation $[\alpha]_D^{20} = +10$ (*c* 1, $CHCl_3$)

Source of chirality: enantioselective resolution by inclusion

Juan R. Dehli and Vicente Gotor*

Tetrahedron: Asymmetry 12 (2001) 1485



$C_{12}H_{19}NO$

(1*R*,2*R*)-2-(Aminomethyl)-1-phenylpentan-1-ol

E.e. 98%; d.r. 99:1

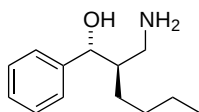
$[\alpha]_D^{20} = +10.6$ (*c* 2.0, EtOH)

Source of chirality: enzymatic reduction

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

Juan R. Dehli and Vicente Gotor*

Tetrahedron: Asymmetry 12 (2001) 1485



$C_{13}H_{21}NO$

(1*R*,2*R*)-2-(Aminomethyl)-1-phenylhexan-1-ol

E.e. 86%; d.r. 93:7

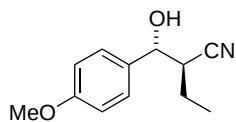
$[\alpha]_D^{20} = +14.5$ (*c* 0.6, EtOH)

Source of chirality: enzymatic reduction

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

Juan R. Dehli and Vicente Gotor*

Tetrahedron: Asymmetry 12 (2001) 1485



$C_{12}H_{15}NO$

(2*R*,1'*R*)-2-[1-Hydroxy-1-(4-methoxyphenyl)methyl]butanenitrile

E.e. 75%; d.r. 94:6

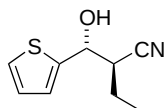
$[\alpha]_D^{20} = +41.0$ (*c* 0.7, $CHCl_3$)

Source of chirality: enzymatic reduction

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

Juan R. Dehli and Vicente Gotor*

Tetrahedron: Asymmetry 12 (2001) 1485



$C_9H_{11}NOS$

(2*R*,1'*R*)-2-[1-Hydroxy-1-(2-thienyl)methyl]butanenitrile

E.e. 93%; d.r. 97:3

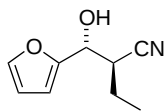
$[\alpha]_D^{20} = +27.0$ (*c* 2.0, $CHCl_3$)

Source of chirality: enzymatic reduction

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

Juan R. Dehli and Vicente Gotor*

Tetrahedron: Asymmetry 12 (2001) 1485



$C_9H_{11}NO_2$

(2*R*,1'*R*)-2-[1-(2-Furyl)-1-hydroxymethyl]butanenitrile

E.e. 87%; d.r. 86:14

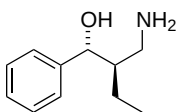
$[\alpha]_D^{20} = +45.3$ (*c* 1.0, $CHCl_3$)

Source of chirality: enzymatic reduction

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

Juan R. Dehli and Vicente Gotor*

Tetrahedron: Asymmetry 12 (2001) 1485



$C_{11}H_{17}NO$

(1*R*,2*R*)-2-(Aminomethyl)-1-phenylbutan-1-ol

E.e. 98%; d.r. 98:2

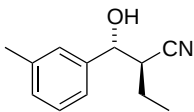
$[\alpha]_D^{20} = +17.9$ (*c* 0.8, EtOH)

Source of chirality: enzymatic reduction

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

Juan R. Dehli and Vicente Gotor*

Tetrahedron: Asymmetry 12 (2001) 1485



$C_{12}H_{15}NO$

(2*R*,1'*R*)-2-[1-Hydroxy-1-(3-methylphenyl)methyl]butanenitrile

E.e. 70%; d.r. 89:11

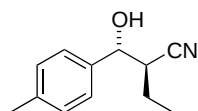
$[\alpha]_D^{20} = +31.7$ (*c* 0.7, $CHCl_3$)

Source of chirality: enzymatic reduction

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

Juan R. Dehli and Vicente Gotor*

Tetrahedron: Asymmetry 12 (2001) 1485



$C_{12}H_{15}NO$

(2*R*,1'*R*)-2-[1-Hydroxy-1-(4-methylphenyl)methyl]butanenitrile

E.e. 83%; d.r. 96:4

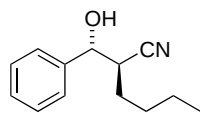
$[\alpha]_D^{20} = +43.1$ (*c* 1.3, $CHCl_3$)

Source of chirality: enzymatic reduction

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

Juan R. Dehli and Vicente Gotor*

Tetrahedron: Asymmetry 12 (2001) 1485



$C_{13}H_{17}NO$

(2*R*,1'*R*)-2-(1-Hydroxy-1-phenylmethyl)hexanenitrile

E.e. 86%; d.r. 93:7

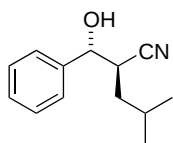
$[\alpha]_D^{20} = +7.3$ (*c* 2.8, EtOH)

Source of chirality: enzymatic reduction

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

Juan R. Dehli and Vicente Gotor*

Tetrahedron: Asymmetry 12 (2001) 1485



$C_{13}H_{17}NO$

(2*R*,1'*R*)-2-(1-Hydroxy-1-phenylmethyl)-4-methylpentanenitrile

E.e. 97%; d.r. 97:3

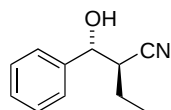
$[\alpha]_D^{20} = +6.3$ (*c* 1.4, EtOH)

Source of chirality: enzymatic reduction

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

Juan R. Dehli and Vicente Gotor*

Tetrahedron: Asymmetry 12 (2001) 1485



$C_{11}H_{13}NO$

(2*R*,1'*R*)-2-(1-Hydroxy-1-phenylmethyl)butanenitrile

E.e. 98%; d.r. 98:2

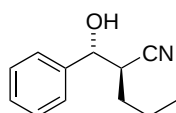
$[\alpha]_D^{20} = +16.8$ (*c* 1.1, EtOH)

Source of chirality: enzymatic reduction

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

Juan R. Dehli and Vicente Gotor*

Tetrahedron: Asymmetry 12 (2001) 1485



$C_{12}H_{15}NO$

(2*R*,1'*R*)-2-(1-Hydroxy-1-phenylmethyl)pentanenitrile

E.e. 98%; d.r. 99:1

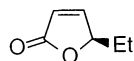
$[\alpha]_D^{20} = +12.8$ (*c* 1.7, EtOH)

Source of chirality: enzymatic reduction

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

Marcello Tiecco,* Lorenzo Testaferri, Francesca Marini,
Silvia Sternativo, Luana Bagnoli, Claudio Santi and Andrea Temperini

Tetrahedron: Asymmetry 12 (2001) 1493



(5*R*)-5-Ethylfuran-2(5*H*)-one

E.e. = 78% (by 1H NMR using 2,2,2-trifluoro-1-(9-antryl)ethanol, and by GC-MS on a Chirasil-DEX column)

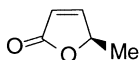
$[\alpha]_D^{29} = -70.0$ (*c* 2.26, CH_2Cl_2)

Source of chirality: asymmetric synthesis

Absolute configuration: *R*

Marcello Tiecco,* Lorenzo Testaferri, Francesca Marini,
Silvia Sternativo, Luana Bagnoli, Claudio Santi and Andrea Temperini

Tetrahedron: Asymmetry 12 (2001) 1493



(5*R*)-5-Methylfuran-2(5*H*)-one

E.e. = 52% (by GC-MS on a Chirasil-DEX column)

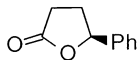
$[\alpha]_D^{26} = -61.2$ (*c* 0.7, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: *R*

Marcello Tiecco,* Lorenzo Testaferri, Francesca Marini,
Silvia Sternativo, Luana Bagnoli, Claudio Santi and Andrea Temperini

Tetrahedron: Asymmetry 12 (2001) 1493



(5*S*)-5-Phenyldihydrofuran-2(3*H*)-one

E.e. = 90% (by GC-MS on a Chirasil-DEX column)

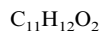
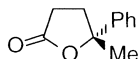
$[\alpha]_D^{29} = -24.8$ (*c* 1.0, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: *S*

Marcello Tiecco,* Lorenzo Testaferri, Francesca Marini,
Silvia Sternativo, Luana Bagnoli, Claudio Santi and Andrea Temperini

Tetrahedron: Asymmetry 12 (2001) 1493



(5*R*)-5-Methyl-5-phenyldihydrofuran-2(3*H*)-one

E.e. = 78% (by GC-MS on a Chirasil-DEX column)

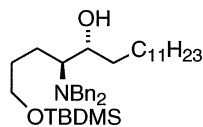
$[\alpha]_D^{32} = +32.4$ (*c* 0.25, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: *R*

José M. Andrés, Noemí de Elena, Rafael Pedrosa* and Alfonso Pérez-Encabo

Tetrahedron: Asymmetry 12 (2001) 1503



$C_{37}H_{63}NO_2Si$
(4*S*,5*R*)-4-(*N,N*-Dibenzylamino)-1-(*tert*-butyldimethylsilyloxy)-5-heptadecanol

E.e. = 100%

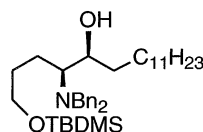
$[\alpha]_D^{23} = +8.6$ (*c* 1.2, $CHCl_3$)

Source of chirality: L-glutamic acid and asymmetric synthesis

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

José M. Andrés, Noemí de Elena, Rafael Pedrosa* and Alfonso Pérez-Encabo

Tetrahedron: Asymmetry 12 (2001) 1503



$C_{37}H_{63}NO_2Si$
(4*S*,5*S*)-4-(*N,N*-Dibenzylamino)-1-(*tert*-butyldimethylsilyloxy)-5-heptadecanol

E.e. = 100%

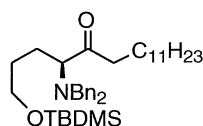
$[\alpha]_D^{23} = +15.2$ (*c* 1.0, $CHCl_3$)

Source of chirality: L-glutamic acid and asymmetric synthesis

Absolute configuration: (4*S*,5*S*)

José M. Andrés, Noemí de Elena, Rafael Pedrosa* and Alfonso Pérez-Encabo

Tetrahedron: Asymmetry 12 (2001) 1503



$C_{37}H_{61}NO_2Si$
(4*S*)-4-(*N,N*-Dibenzylamino)-1-(*tert*-butyldimethylsilyloxy)-5-heptadecanone

E.e. = 100%

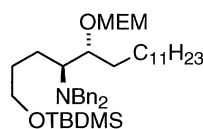
$[\alpha]_D^{23} = -42.2$ (*c* 1.1, $CHCl_3$)

Source of chirality: L-glutamic acid and asymmetric synthesis

Absolute configuration: (4*S*)

José M. Andrés, Noemí de Elena, Rafael Pedrosa* and Alfonso Pérez-Encabo

Tetrahedron: Asymmetry 12 (2001) 1503



$C_{41}H_{71}NO_4Si$
(4*S*,5*R*)-4-(*N,N*-Dibenzylamino)-1-(*tert*-butyldimethylsilyloxy)-5-[(2-methoxyethoxy)methoxy]heptadecane

E.e. = 100%

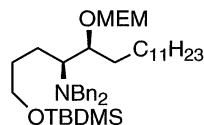
$[\alpha]_D^{23} = -17.4$ (*c* 1.8, $CHCl_3$)

Source of chirality: L-glutamic acid and asymmetric synthesis

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

José M. Andrés, Noemí de Elena, Rafael Pedrosa* and Alfonso Pérez-Encabo

Tetrahedron: Asymmetry 12 (2001) 1503



$C_{41}H_{71}NO_4Si$

(4*S*,5*S*)-4-(*N,N*-Dibenzylamino)-1-(*tert*-butyldimethylsilyloxy)-5-[(2-methoxyethoxy)methoxy]heptadecane

E.e. = 100%

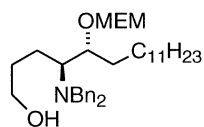
$[\alpha]_D^{23} = +16.8$ (*c* 1.1, $CHCl_3$)

Source of chirality: L-glutamic acid and asymmetric synthesis

Absolute configuration: (4*S*,5*S*)

José M. Andrés, Noemí de Elena, Rafael Pedrosa* and Alfonso Pérez-Encabo

Tetrahedron: Asymmetry 12 (2001) 1503



$C_{35}H_{57}NO_4$

(4*S*,5*S*)-4-(*N,N*-Dibenzylamino)-5-[(2-methoxyethoxy)methoxy]-1-heptadecanol

E.e. = 100%

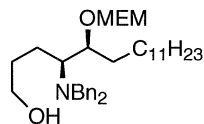
$[\alpha]_D^{23} = -33.7$ (*c* 1.1, $CHCl_3$)

Source of chirality: L-glutamic acid and asymmetric synthesis

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

José M. Andrés, Noemí de Elena, Rafael Pedrosa* and Alfonso Pérez-Encabo

Tetrahedron: Asymmetry 12 (2001) 1503



$C_{35}H_{57}NO_4$

(4*S*,5*S*)-4-(*N,N*-Dibenzylamino)-5-[(2-methoxyethoxy)methoxy]-1-heptadecanol

E.e. = 100%

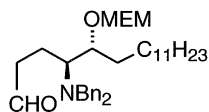
$[\alpha]_D^{23} = +40.7$ (*c* 1.2, $CHCl_3$)

Source of chirality: L-glutamic acid and asymmetric synthesis

Absolute configuration: (4*S*,5*S*)

José M. Andrés, Noemí de Elena, Rafael Pedrosa* and Alfonso Pérez-Encabo

Tetrahedron: Asymmetry 12 (2001) 1503



$C_{35}H_{55}NO_4$

(4*S*,5*R*)-4-(*N,N*-Dibenzylamino)-5-[(2-methoxyethoxy)methoxy]heptadecanal

E.e. = 100%

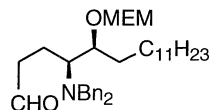
$[\alpha]_D^{23} = -37.4$ (*c* 1.6, $CHCl_3$)

Source of chirality: L-glutamic acid and asymmetric synthesis

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

José M. Andrés, Noemí de Elena, Rafael Pedrosa* and Alfonso Pérez-Encabo

Tetrahedron: Asymmetry 12 (2001) 1503



$C_{35}H_{55}NO_4$

(4*S*,5*S*)-4-(*N,N*-Dibenzylamino)-5-[(2-methoxyethoxy)methoxy]heptadecanal

E.e. = 100%

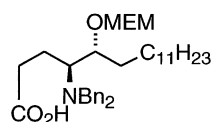
$[\alpha]_D^{23} = +14.6$ (*c* 0.8, $CHCl_3$)

Source of chirality: L-glutamic acid and asymmetric synthesis

Absolute configuration: (4*S*,5*S*)

José M. Andrés, Noemí de Elena, Rafael Pedrosa* and Alfonso Pérez-Encabo

Tetrahedron: Asymmetry 12 (2001) 1503



$C_{35}H_{55}NO_5$

(4*S*,5*R*)-4-(*N,N*-Dibenzylamino)-5-[(2-methoxyethoxy)methoxy]heptadecanoic acid

E.e. = 100%

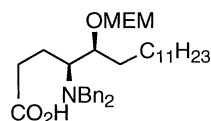
$[\alpha]_D^{23} = -17.3$ (*c* 1.0, $CHCl_3$)

Source of chirality: L-glutamic acid and asymmetric synthesis

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

José M. Andrés, Noemí de Elena, Rafael Pedrosa* and Alfonso Pérez-Encabo

Tetrahedron: Asymmetry 12 (2001) 1503



$C_{35}H_{55}NO_5$

(4*S*,5*S*)-4-(*N,N*-Dibenzylamino)-5-[(2-methoxyethoxy)methoxy]heptadecanoic acid

E.e. = 100%

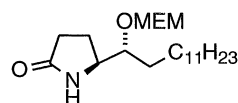
$[\alpha]_D^{23} = +23.1$ (*c* 0.6, $CHCl_3$)

Source of chirality: L-glutamic acid and asymmetric synthesis

Absolute configuration: (4*S*,5*S*)

José M. Andrés, Noemí de Elena, Rafael Pedrosa* and Alfonso Pérez-Encabo

Tetrahedron: Asymmetry 12 (2001) 1503



$C_{21}H_{41}NO_4$

(5*S*,6*R*)-5-[1-(2-Methoxyethoxymethoxy)tridecyl]pyrrolidin-2-one

E.e. = 100%

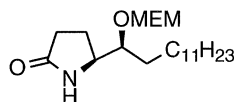
$[\alpha]_D^{23} = -10.0$ (*c* 0.7, $CHCl_3$)

Source of chirality: L-glutamic acid and asymmetric synthesis

Absolute configuration: (5*S*,6*R*)

José M. Andrés, Noemí de Elena, Rafael Pedrosa* and Alfonso Pérez-Encabo

Tetrahedron: Asymmetry 12 (2001) 1503



$C_{21}H_{41}NO_4$

(5*S*,6*S*)-5-[1-(2-Methoxyethoxymethoxy)tridecyl]pyrrolidin-2-one

E.e. = 100%

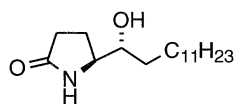
$[\alpha]_D^{23} = +38.1$ (*c* 0.5, $CHCl_3$)

Source of chirality: L-glutamic acid and asymmetric synthesis

Absolute configuration: (5*S*,6*S*)

José M. Andrés, Noemí de Elena, Rafael Pedrosa* and Alfonso Pérez-Encabo

Tetrahedron: Asymmetry 12 (2001) 1503



$C_{17}H_{33}NO_2$

(5*S*,6*R*)-5-(1-Hydroxytridecyl)pyrrolidin-2-one

E.e. = 100%

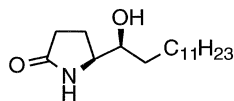
$[\alpha]_D^{23} = +4.9$ (*c* 0.9, $CHCl_3$)

Source of chirality: L-glutamic acid and asymmetric synthesis

Absolute configuration: (5*S*,6*R*)

José M. Andrés, Noemí de Elena, Rafael Pedrosa* and Alfonso Pérez-Encabo

Tetrahedron: Asymmetry 12 (2001) 1503



$C_{17}H_{33}NO_2$

(5*S*,6*S*)-5-(1-Hydroxytridecyl)pyrrolidin-2-one

E.e. = 100%

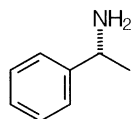
$[\alpha]_D^{23} = +9.3$ (*c* 1.0, $CHCl_3$)

Source of chirality: L-glutamic acid and asymmetric synthesis

Absolute configuration: (5*S*,6*S*)

József Bálint, Gabriella Egri,* Mátyás Czugler, József Schindler, Violetta Kiss, Zoltán Juvancz and Elemér Fogassy

Tetrahedron: Asymmetry 12 (2001) 1511



$C_8H_{11}N$

(*R*)- α -Phenylethylamine

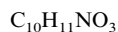
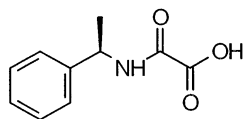
Ee >98% (by chiral GC)

Source of chirality: resolution of racemic mixture

Absolute configuration: *R* (known from literature)

József Bálint, Gabriella Egri,* Mátyás Czugler, József Schindler,
Violetta Kiss, Zoltán Juvancz and Elemér Fogassy

Tetrahedron: Asymmetry 12 (2001) 1511



(*R*)- α -Phenylethylamine oxalamic acid

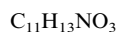
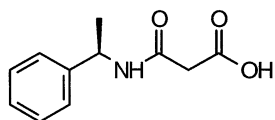
Ee >99% (prepared from enantiopure
phenylethylamine)

Source of chirality: enantiopure starting material

Absolute configuration: *R* (starting material of
known configuration)

József Bálint, Gabriella Egri,* Mátyás Czugler, József Schindler,
Violetta Kiss, Zoltán Juvancz and Elemér Fogassy

Tetrahedron: Asymmetry 12 (2001) 1511



(*R*)- α -Phenylethylamine malonic acid

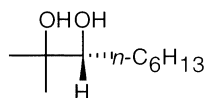
Ee >99% (prepared from enantiopure
phenylethylamine)

Source of chirality: enantiopure starting material

Absolute configuration: *R* (starting material of
known configuration)

Andreas Steinreiber, Sandra F. Mayer, Robert Saf and Kurt Faber*

Tetrahedron: Asymmetry 12 (2001) 1519



(*R*)-2-Methylnonane-2,3-diol

E.e. = 97%

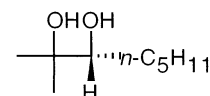
$[\alpha]_{\text{D}}^{20} = +24.4$ (*c* 1.95, CHCl_3)

Source of chirality: enzymatic hydrolysis

Absolute configuration: *R*

Andreas Steinreiber, Sandra F. Mayer, Robert Saf and Kurt Faber*

Tetrahedron: Asymmetry 12 (2001) 1519



(*R*)-2-Methyloctane-2,3-diol

E.e. = 92%

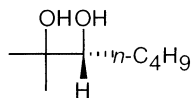
$[\alpha]_{\text{D}}^{20} = +24.9$ (*c* 1.15, CHCl_3)

Source of chirality: enzymatic hydrolysis

Absolute configuration: *R*

Andreas Steinreiber, Sandra F. Mayer, Robert Saf and Kurt Faber*

Tetrahedron: Asymmetry 12 (2001) 1519



(*R*)-2-Methylheptane-2,3-diol

E.e. = 87%

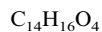
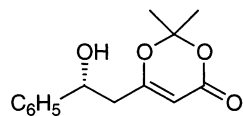
$[\alpha]_D^{20} = +27.5$ (*c* 2.69, $CHCl_3$)

Source of chirality: enzymatic hydrolysis

Absolute configuration: *R*

Margherita De Rosa, Maria Rosaria Acocella, Annunziata Soriente and Arrigo Scettri*

Tetrahedron: Asymmetry 12 (2001) 1529



6-[2-Hydroxy-2-phenylethyl]-2,2-dimethyl-[1,3]dioxin-4-one

E.e. = 95%

$[\alpha]_D^{20} = +37.7$ (*c* 1.96, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (2*R*)