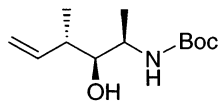
Angela Zampella and Maria Valeria D'Auria*

Tetrahedron: Asymmetry *12 (2001) 1543*



$C_{12}H_{23}NO_3$

(2*R*,3*S*,4*S*)-2-(*N*-*tert*-Butoxycarbonyl)amino-4-methyl-5-hexen-3-ol

E.e. = 100%

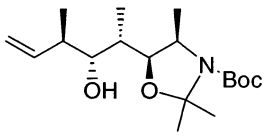
$[\alpha]_D = +16.5$ (*c* 0.2, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (2*R*,3*S*,4*S*)

Angela Zampella and Maria Valeria D'Auria*

Tetrahedron: Asymmetry *12 (2001) 1543*



$C_{18}H_{33}NO_4$

(4*R*,5*S*)-*N*-*tert*-Butoxycarbonyl-2,2,4-trimethyl-5-[(1′*S*,2′*R*,3′*R*)-1′,3′-dimethyl-2′-hydroxy-4′-pentenyl]-oxazolidine

E.e. = 100%

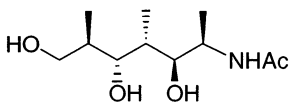
$[\alpha]_D = -16.3$ (*c* 0.4, $CHCl_3$)

Source of chirality: asymmetric synthesis

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

Angela Zampella and Maria Valeria D'Auria*

Tetrahedron: Asymmetry *12 (2001) 1543*



$C_{11}H_{23}NO_4$

(2*R*,3*R*,4*S*,5*S*,6*R*)-6-(*N*-Acetyl)amino-2,4-dimethyl-1,3,5-heptanetriol

E.e. = 100%

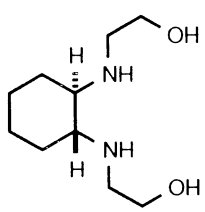
$[\alpha]_D = +3.4$ (*c* 0.5, MeOH)

Source of chirality: asymmetric synthesis

Absolute configuration: (2*R*,3*R*,4*S*,5*S*,6*R*)

Alexander J. A. Cobb and Charles M. Marson*

Tetrahedron: Asymmetry *12 (2001) 1547*



$C_{10}H_{22}N_2O_2$

(1*R*,2*R*)-(−)-*N*,*N*′-Bis(1-hydroxyethyl)-*trans*-1,2-diaminocyclohexane

E.e. = 100%

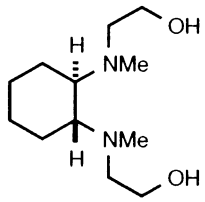
$[\alpha]_D^{20} = -44.4$ (*c* 0.15, $CHCl_3$)

Source of chirality: asymmetric synthesis

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

Alexander J. A. Cobb and Charles M. Marson*

Tetrahedron: Asymmetry *12 (2001) 1547*



$C_{12}H_{26}N_2O_2$

(1*R*,2*R*)-(−)-*N*,*N*′-Dimethyl-*N*,*N*′-bis(1-hydroxyethyl)-*trans*-1,2-diaminocyclohexane

E.e. = 100%

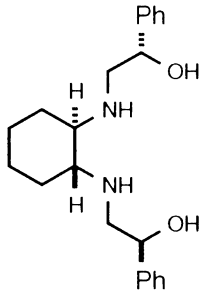
$[\alpha]_D^{20} = -32.8$ (*c* 0.01, $CHCl_3$)

Source of chirality: asymmetric synthesis

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

Alexander J. A. Cobb and Charles M. Marson*

Tetrahedron: Asymmetry *12 (2001) 1547*



$C_{22}H_{30}N_2O_2$

(1*R*,2*R*)-(+)-*N*,*N*′-Bis(ethan-(1-(*R*)-phenyl)-1-ol)-*trans*-1,2-diaminocyclohexane

E.e. = 100%

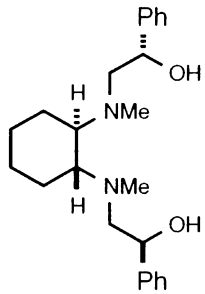
$[\alpha]_D^{20} = +1.9$ (*c* 1.55, $CHCl_3$)

Source of chirality: asymmetric synthesis

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

Alexander J. A. Cobb and Charles M. Marson*

Tetrahedron: Asymmetry *12 (2001) 1547*



$C_{22}H_{30}N_2O_2$

(1*R*,2*R*)-(−)-*N*,*N*′-Dimethyl-*N*,*N*′-bis(ethan-(1-(*R*)-phenyl)-1-ol)-*trans*-1,2-diaminocyclohexane

E.e. = 100%

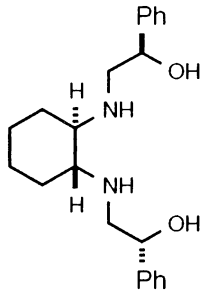
$[\alpha]_D^{20} = -27.7$ (*c* 0.76, $CHCl_3$)

Source of chirality: asymmetric synthesis

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

Alexander J. A. Cobb and Charles M. Marson*

Tetrahedron: Asymmetry *12 (2001) 1547*



$C_{22}H_{30}N_2O_2$

(1*R*,2*R*)-(−)-*N*,*N*′-Bis(ethan-(1-(*S*)-phenyl)-1-ol)-*trans*-1,2-diaminocyclohexane

E.e. = 100%

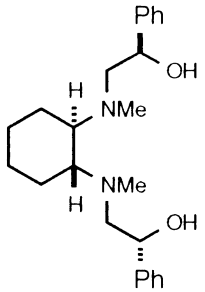
$[\alpha]_D^{20} = -96.6$ (*c* 0.50, $CHCl_3$)

Source of chirality: asymmetric synthesis

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

Alexander J. A. Cobb and Charles M. Marson*

Tetrahedron: Asymmetry *12 (2001) 1547*



$C_{24}H_{34}N_2O_2$

(1*R*,2*R*)-(−)-*N*,*N*′-Dimethyl-*N*,*N*′-bis(ethan-(1-(*S*)-phenyl)-1-ol)-*trans*-1,2-diaminocyclohexane

E.e. = 100%

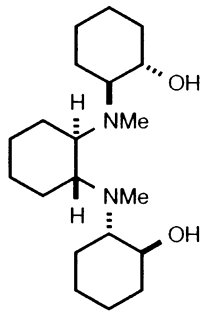
$[\alpha]_D^{20} = -111.6$ (*c* 0.57, $CHCl_3$)

Source of chirality: asymmetric synthesis

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

Alexander J. A. Cobb and Charles M. Marson*

Tetrahedron: Asymmetry *12 (2001) 1547*



$C_{20}H_{38}N_2O_2$

(1*R*,2*R*)-(+)-*N*,*N*′-Dimethyl-*N*,*N*′-bis((1′*S*,2′S)-4-hydroxycyclohexyl)-*trans*-1,2-diaminocyclohexane

E.e. = 100%

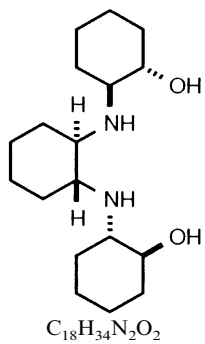
$[\alpha]_D^{20} = +42.2$ (*c* 0.53, $CHCl_3$)

Source of chirality: asymmetric synthesis

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

Alexander J. A. Cobb and Charles M. Marson*

Tetrahedron: Asymmetry *12 (2001) 1547*



$C_{18}H_{34}N_2O_2$

(1*R*,2*R*)-(+)-*N*,*N*′-Bis((1′*S*,2′S)-4-hydroxycyclohexyl)-*trans*-1,2-diaminocyclohexane

E.e. = 100%

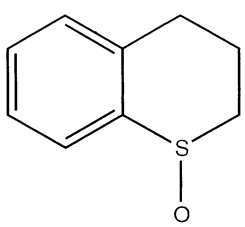
$[\alpha]_D^{20} = +11.2$ (*c* 1.0, $CHCl_3$)

Source of chirality: asymmetric synthesis

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

F. J. Devlin, P. J. Stephens,* P. Scafato, S. Superchi and C. Rosini

Tetrahedron: Asymmetry *12 (2001) 1551*



$C_9H_{10}OS$

(*R*)-(−)-1-Thiochroman-*S*-oxide

E.e. = 90%

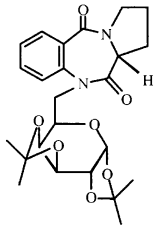
$[\alpha]_D^{20} = -167$ (*c* 0.95, $CHCl_3$)

Absolute configuration: (R_S)

Source of chirality: Ti(*iso*-PrO)$_4$-catalyzed asymmetric sulfoxidation

Driss Bouhlal, Patrick Martin,* Mohamed Massoui, Guy Nowogrocki, Serge Pilard, Pierre Villa and Gérard Goethals

Tetrahedron: Asymmetry *12 (2001) 1573*



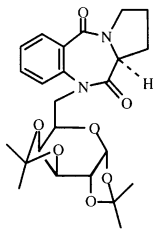
$[\alpha]_D^{25} = -152.5$ (c 0.9, $CHCl_3$)

$C_{24}H_{30}N_2O_7$

(11a*R*)-10-*N*-(6-Deoxy-1,2:3,4-di-*O*-isopropylidene-α-D-galactopyranos-6-yl)-pyrrolo[2,1-*c*][1,4]benzodiazepin-5,11-dione

Driss Bouhlal, Patrick Martin,* Mohamed Massoui, Guy Nowogrocki, Serge Pilard, Pierre Villa and Gérard Goethals

Tetrahedron: Asymmetry *12 (2001) 1573*



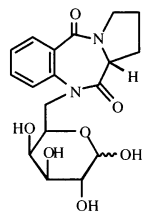
$[\alpha]_D^{25} = +199.6$ (c 0.9, $CHCl_3$)

$C_{24}H_{30}N_2O_7$

(11a*S*)-10-*N*-(6-Deoxy-1,2:3,4-di-*O*-isopropylidene-α-D-galactopyranos-6-yl)-pyrrolo[2,1-*c*][1,4]benzodiazepin-5,11-dione

Driss Bouhlal, Patrick Martin,* Mohamed Massoui, Guy Nowogrocki, Serge Pilard, Pierre Villa and Gérard Goethals

Tetrahedron: Asymmetry *12 (2001) 1573*



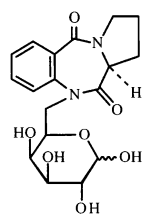
$[\alpha]_D^{25} = -175.6$ (c 0.9, 72 h, MeOH)

$C_{18}H_{22}N_2O_7$

(11a*R*)-10-*N*-(6-Deoxy-D-galactopyranos-6-yl)-pyrrolo[2,1-*c*][1,4]benzodiazepin-5,11-dione

Driss Bouhlal, Patrick Martin,* Mohamed Massoui, Guy Nowogrocki, Serge Pilard, Pierre Villa and Gérard Goethals

Tetrahedron: Asymmetry *12 (2001) 1573*



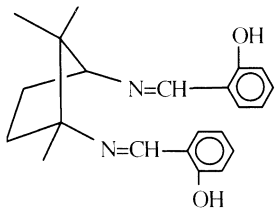
$[\alpha]_D^{25} = +234.4$ (c 0.9, 72 h, MeOH)

$C_{18}H_{22}N_2O_7$

(11a*S*)-10-*N*-(6-Deoxy-D-galactopyranos-6-yl)-pyrrolo[2,1-*c*][1,4]benzodiazepin-5,11-dione

Zhuo-Hong Yang, Li-Xin Wang, Zheng-Hong Zhou, Qi-Lin Zhou and Chu-Chi Tang*

Tetrahedron: Asymmetry *12 (2001) 1579*



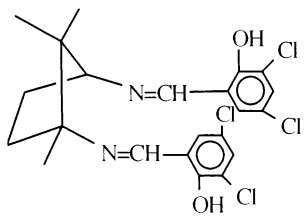
E.e. = 100%
$[\alpha]_D^{25} = +34.0$ (*c* 2, $CHCl_3$)
Source of chirality: D-camphor
Absolute configuration: (1*R*,3*S*)

$C_{22}H_{26}N_2O_2$

(+)-*cis*-*N*,*N*′-(2-Hydroxybenzylidene)-1,2,2-trimethylcyclopenta-1,3-diamine

Zhuo-Hong Yang, Li-Xin Wang, Zheng-Hong Zhou, Qi-Lin Zhou and Chu-Chi Tang*

Tetrahedron: Asymmetry *12 (2001) 1579*



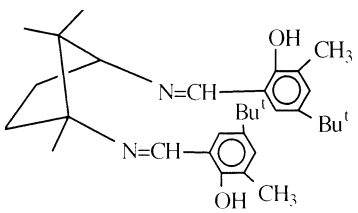
E.e. = 100%
$[\alpha]_D^{25} = +37.7$ (*c* 1, $CHCl_3$)
Source of chirality: D-camphor
Absolute configuration: (1*R*,3*S*)

$C_{22}H_{22}Cl_4N_2O_2$

(+)-*cis*-*N*,*N*′-(2-Hydroxy-3,5-dichlorobenzylidene)-1,2,2-trimethylcyclopenta-1,3-diamine

Zhuo-Hong Yang, Li-Xin Wang, Zheng-Hong Zhou, Qi-Lin Zhou and Chu-Chi Tang*

Tetrahedron: Asymmetry *12 (2001) 1579*



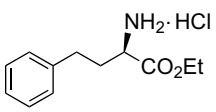
E.e. = 100%
$[\alpha]_D^{25} = +41.9$ (*c* 1.5, $CHCl_3$)
Source of chirality: D-camphor
Absolute configuration: (1*R*,3*S*)

$C_{32}H_{46}N_2O_2$

(+)-*cis*-*N*,*N*′-(2-Hydroxy-3-methyl-5-*tert*-butylbenzylidene)-1,2,2-trimethylcyclopenta-1,3-diamine

Wen-Qing Lin, Ze He, Yi Jing, Xin Cui, Hui Liu and Ai-Qiao Mi*

Tetrahedron: Asymmetry *12 (2001) 1583*



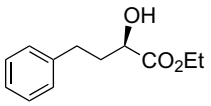
E.e. = 99%
$[\alpha]_D^{25} = -38.6$ (*c* 1, H_2O)
Source of chirality: chiral pool
Absolute configuration: *R*

$C_{12}H_{18}ClNO_2$

D-Homophenylalanine ethyl ester hydrochloride

Wen-Qing Lin, Ze He, Yi Jing, Xin Cui, Hui Liu and Ai-Qiao Mi*

Tetrahedron: Asymmetry *12 (2001) 1583*

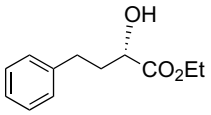


E.e. = 97%
$[\alpha]_D^{23} = -8.4$ (*c* 1.25, EtOH)
Source of chirality: chiral pool
Absolute configuration: *R*

$C_{12}H_{16}O_3$
Ethyl (*R*)-2-hydroxyl-4-phenylbutanoate

Wen-Qing Lin, Ze He, Yi Jing, Xin Cui, Hui Liu and Ai-Qiao Mi*

Tetrahedron: Asymmetry *12 (2001) 1583*

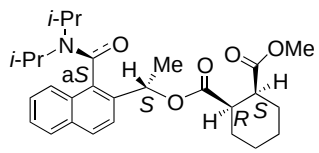


E.e. = 99%
$[\alpha]_D^{23} = +8.4$ (*c* 1.23, EtOH)
Source of chirality: chiral pool
Absolute configuration: *S*

$C_{12}H_{16}O_3$
Ethyl (*S*)-2-hydroxyl-4-phenylbutanoate

Wei-Min Dai,* Kelly Ka Yim Yeung, Chun Wo Chow and Ian D. Williams

Tetrahedron: Asymmetry *12 (2001) 1603*

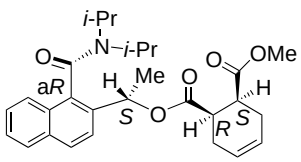


$[\alpha]_D^{20} = -0.9$ (*c* 0.54, $CHCl_3$)
Source of chirality: asymmetric reaction

$C_{28}H_{37}NO_5$
(−)-(a*S*,1′*S*,1″*R*,2″*S*)-*N*,*N*-Diisopropyl-2-[1′-(2″-methoxycarbonylcyclohexane-1″-carbonyloxy)ethyl]-1-naphthamide

Wei-Min Dai,* Kelly Ka Yim Yeung, Chun Wo Chow and Ian D. Williams

Tetrahedron: Asymmetry *12 (2001) 1603*

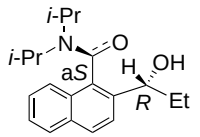


$[\alpha]_D^{20} = -51.0$ (*c* 1.00, $CHCl_3$)
Source of chirality: asymmetric reaction

$C_{28}H_{35}NO_5$
(−)-(a*R*,1′*S*,1″*R*,2″*S*)-*N*,*N*-Diisopropyl-2-[1′-(2″-methoxycarbonylcyclohex-4″-ene-1″-carbonyloxy)ethyl]-1-naphthamide

Wei-Min Dai,* Kelly Ka Yim Yeung, Chun Wo Chow and Ian D. Williams

Tetrahedron: Asymmetry *12 (2001) 1603*



$[\alpha]_D^{20} = +100.9$ (c 0.98, $CHCl_3$)

Source of chirality: HPLC resolution

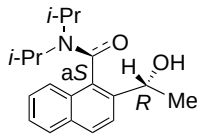
$C_{20}H_{27}NO_2$

(+)-(a*S*,1′*R*)-*N*,*N*-Diisopropyl-2-(1′-hydroxypropyl)-1-naphthamide

---

Wei-Min Dai,* Kelly Ka Yim Yeung, Chun Wo Chow and Ian D. Williams

Tetrahedron: Asymmetry *12 (2001) 1603*



$[\alpha]_D^{20} = +116.4$ (c 1.09, $CHCl_3$)

Source of chirality: HPLC resolution

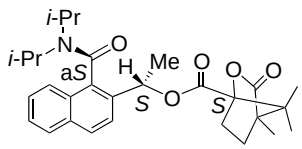
$C_{19}H_{25}NO_2$

(+)-(a*S*,1′*R*)-*N*,*N*-Diisopropyl-2-(1′-hydroxyethyl)-1-naphthamide

---

Wei-Min Dai,* Kelly Ka Yim Yeung, Chun Wo Chow and Ian D. Williams

Tetrahedron: Asymmetry *12 (2001) 1603*



$[\alpha]_D^{20} = +49.4$ (c 0.85, $CHCl_3$)

Source of chirality: (1*S*)-(−)-camphanic chloride

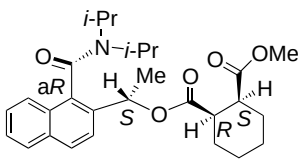
$C_{29}H_{37}NO_5$

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

---

Wei-Min Dai,* Kelly Ka Yim Yeung, Chun Wo Chow and Ian D. Williams

Tetrahedron: Asymmetry *12 (2001) 1603*



$[\alpha]_D^{20} = -47.4$ (c 0.98, $CHCl_3$)

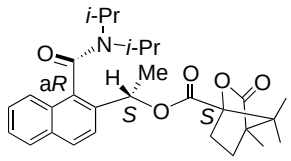
Source of chirality: asymmetric reaction

$C_{28}H_{37}NO_5$

(−)-(a*R*,1′*S*,1″*R*,2″*S*)-*N*,*N*-Diisopropyl-2-[1′-(2″-methoxycarbonylcyclohexane-1″-carbonyloxy)ethyl]-1-naphthamide

Wei-Min Dai,* Kelly Ka Yim Yeung, Chun Wo Chow and Ian D. Williams

Tetrahedron: Asymmetry *12 (2001) 1603*



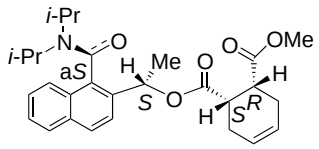
$[\alpha]_D^{20} = -9.9$ (c 1.05, $CHCl_3$)
Source of chirality: (1*S*)-(−)-camphanic chloride

$C_{29}H_{37}NO_5$

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

Wei-Min Dai,* Kelly Ka Yim Yeung, Chun Wo Chow and Ian D. Williams

Tetrahedron: Asymmetry *12 (2001) 1603*



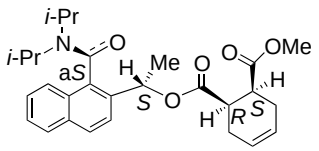
$[\alpha]_D^{20} = -12.4$ (c 0.48, $CHCl_3$)
Source of chirality: asymmetric reaction

$C_{28}H_{35}NO_5$

(−)-(a*S*,1′*S*,1″*S*,2″*R*)-*N*,*N*-Diisopropyl-2-[1′-(2″-methoxycarbonylcyclohex-4″-ene-1″-carbonyloxy)ethyl]-1-naphthamide

Wei-Min Dai,* Kelly Ka Yim Yeung, Chun Wo Chow and Ian D. Williams

Tetrahedron: Asymmetry *12 (2001) 1603*



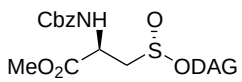
$[\alpha]_D^{20} = -5.1$ (c 1.10, $CHCl_3$)
Source of chirality: asymmetric reaction

$C_{28}H_{35}NO_5$

(−)-(a*S*,1′*S*,1″*R*,2″*S*)-*N*,*N*-Diisopropyl-2-[1′-(2″-methoxycarbonylcyclohex-4″-ene-1″-carbonyloxy)ethyl]-1-naphthamide

Victor Guerrero de la Rosa, Mario Ordóñez and José Manuel Llera*

Tetrahedron: Asymmetry *12 (2001) 1615*



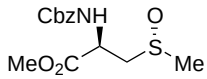
E.e. 100%
$[\alpha]_D = -41.0$ (c 6.7, acetone)
Source of chirality: asymmetric synthesis+chiral pool
Absolute configuration: (R_C,R_S)

$C_{24}H_{33}NO_{11}S$

(1,2:5,6-di-*O*-Isopropylidene-α-D-glucofuranosyl) (R_C,R_S)-2-[(benzyloxycarbonyl)amino]-2-methoxycarbonyl ethanesulphinate

Victor Guerrero de la Rosa, Mario Ordóñez and José Manuel Llera*

Tetrahedron: Asymmetry *12 (2001) 1615*



$C_{13}H_{17}NO_5S$

(R_C,R_S)-*N*-(Benzyloxycarbonyl)-*S*-methyl-*S*-oxo-L-cysteine methyl ester

E.e. 100%

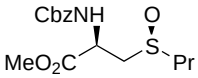
$[\alpha]_D = +196.0$ (*c* 2.1, acetone)

Source of chirality: asymmetric synthesis+chiral pool

Absolute configuration: (R_C,R_S)

Victor Guerrero de la Rosa, Mario Ordóñez and José Manuel Llera*

Tetrahedron: Asymmetry *12 (2001) 1615*



$C_{15}H_{21}NO_5S$

(R_C,S_S)-*N*-(Benzyloxycarbonyl)-*S*-oxo-*S*-propyl-L-cysteine methyl ester

E.e. 100%

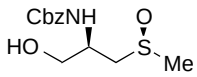
$[\alpha]_D = +36.0$ (*c* 1.0, acetone)

Source of chirality: asymmetric synthesis+chiral pool

Absolute configuration: (R_C,S_S)

Victor Guerrero de la Rosa, Mario Ordóñez and José Manuel Llera*

Tetrahedron: Asymmetry *12 (2001) 1615*



$C_{12}H_{17}NO_4S$

(R_C,S_S)-*N*-(Benzyloxycarbonyl)-(*S*)-*S*-methyl-*S*-oxo-L-cysteinol

E.e. 100%

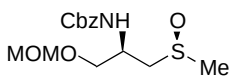
$[\alpha]_D = +66.0$ (*c* 2.1, $CHCl_3$)

Source of chirality: asymmetric synthesis+chiral pool

Absolute configuration: (R_C,S_S)

Victor Guerrero de la Rosa, Mario Ordóñez and José Manuel Llera*

Tetrahedron: Asymmetry *12 (2001) 1615*



$C_{14}H_{21}NO_5S$

(R_C,S_S)-*N*-(Benzyloxycarbonyl)-*O*-methoxymethyl-*S*-methyl-*S*-oxo-L-cysteinol

E.e. 100%

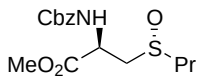
$[\alpha]_D = -76.4$ (*c* 1.1, acetone)

Source of chirality: asymmetric synthesis+chiral pool

Absolute configuration: (R_C,S_S)

Victor Guerrero de la Rosa, Mario Ordóñez and José Manuel Llera*

Tetrahedron: Asymmetry *12 (2001) 1615*



$C_{15}H_{21}NO_5S$

(R_C,R_S)-*N*-(Benzyloxycarbonyl)-*S*-propyl-*S*-oxo-L-cysteine methyl ester

E.e. 100%

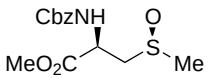
$[\alpha]_D = -27.0$ (*c* 1.5, $CHCl_3$)

Source of chirality: asymmetric synthesis+chiral pool

Absolute configuration: (R_C,R_S)

Victor Guerrero de la Rosa, Mario Ordóñez and José Manuel Llera*

Tetrahedron: Asymmetry *12 (2001) 1615*



$C_{13}H_{17}NO_5S$

(R_C,S_S)-*N*-(Benzyloxycarbonyl)-*S*-methyl-*S*-oxo-L-cysteine methyl ester

E.e. 100%

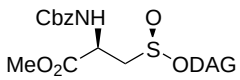
$[\alpha]_D = +10.3$ (*c* 2.7, acetone)

Source of chirality: asymmetric synthesis+chiral pool

Absolute configuration: (R_C,S_S)

Victor Guerrero de la Rosa, Mario Ordóñez and José Manuel Llera*

Tetrahedron: Asymmetry *12 (2001) 1615*



$C_{24}H_{33}NO_{11}S$

(1,2:5,6-Di-*O*-isopropylidene-α-D-glucofuranosyl) (R_C,S_S)-2-[(benzyloxycarbonyl)amino]-2-methoxycarbonylethanesulphinate

E.e. = 100%

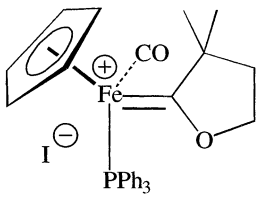
$[\alpha]_D = +2.8$ (*c* 2.0, acetone)

Source of chirality: asymmetric synthesis+chiral pool

Absolute configuration: (R_C,S_S)

Andrew P. Ayscough, James F. Costello* and Stephen G. Davies*

Tetrahedron: Asymmetry *12 (2001) 1621*



$[C_{30}H_{30}FePO_2]^+I^-$

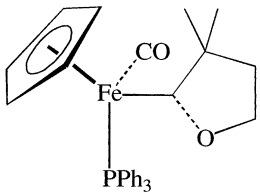
E.e. = 100%

$[\alpha]_D^{20} = -321$

Absolute configuration: (R_{Fe},P)

Andrew P. Ayscough, James F. Costello* and Stephen G. Davies*

Tetrahedron: Asymmetry *12 (2001) 1621*



$C_{30}H_{31}FePO_2$

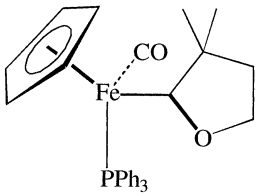
E.e. = 100%

$[\alpha]_D^{20} = +535$

Absolute configuration: (R_{Fe},*R*,*M*)

Andrew P. Ayscough, James F. Costello* and Stephen G. Davies*

Tetrahedron: Asymmetry *12 (2001) 1621*



$C_{30}H_{30}FePO_2$

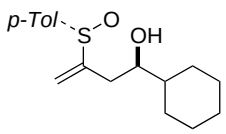
E.e. = 100%

$[\alpha]_D^{20} = -320$

Absolute configuration: (R_{Fe},*S*,*P*)

Francesc Márquez, Amadeu Llebaria and Antonio Delgado*

Tetrahedron: Asymmetry *12 (2001) 1625*



$C_{17}H_{24}SO_2$

(R,R_S)-1-Cyclohexyl-3-(*p*-tolylsulfinyl)-3-buten-1-ol

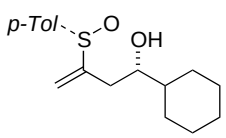
$[\alpha]_D = +89.2$ (*c* 0.8, acetone)

Source of chirality: diastereoselective allylation of cyclohexane carbaldehyde with (S_S)-(+)-3-chloro-2-(*p*-tolylsulfinyl)prop-2-ene or (S_S)-(+)-2-(*p*-tolylsulfinyl)prop-2-en-ol

Absolute configuration: (R,R_S)

Francesc Márquez, Amadeu Llebaria and Antonio Delgado*

Tetrahedron: Asymmetry *12 (2001) 1625*



$C_{17}H_{24}SO_2$

(S,R_S)-1-Cyclohexyl-3-(*p*-tolylsulfinyl)-3-buten-1-ol

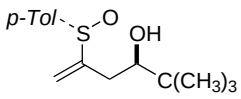
$[\alpha]_D = +6.0$ (*c* 0.40, acetone)

Source of chirality: diastereoselective allylation of cyclohexane carbaldehyde with (S_S)-(+)-3-chloro-2-(*p*-tolylsulfinyl)prop-2-ene or (S_S)-(+)-2-(*p*-tolylsulfinyl)prop-2-en-ol

Absolute configuration: (S,R_S)

Francesc Márquez, Amadeu Llebaria and Antonio Delgado*

Tetrahedron: Asymmetry *12 (2001) 1625*



$C_{15}H_{22}SO_2$

(3*R*,R_S)-2,2-Dimethyl-5-(*p*-tolylsulfinyl)-5-hexen-3-ol

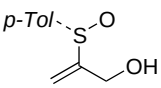
$[\alpha]_D = +135.2$ (*c* 0.75, acetone)

Source of chirality: diastereoselective allylation of pivalaldehyde with (S_S)-(+)-3-chloro-2-(*p*-tolylsulfinyl)prop-2-ene or (S_S)-(+)-2-(*p*-tolylsulfinyl)prop-2-en-ol

Absolute configuration: (R,R_S)

Francesc Márquez, Amadeu Llebaria and Antonio Delgado*

Tetrahedron: Asymmetry *12 (2001) 1625*



$C_{15}H_{22}SO_2$

(S_S)-(+)-2-(*p*-Tolylsulfinyl)prop-2-en-1-ol

E.e. = 91%

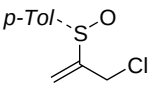
$[\alpha]_D = +170$ (*c* 0.55, EtOH)

Source of chirality: condensation of 2-lithio-2-propen-1-ol (lithium salt) with (S_S)-menthyl *p*-toluenesulfinate

Absolute configuration: (S_S)

Francesc Márquez, Amadeu Llebaria and Antonio Delgado*

Tetrahedron: Asymmetry *12 (2001) 1625*



$C_{10}H_{11}ClSO$

(S_S)-(+)-3-Chloro-(*p*-tolylsulfinyl)prop-2-ene

E.e. = 90%

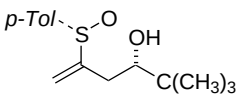
$[\alpha]_D = +128$ (*c* 0.68, MeOH)

Source of chirality: treatment of (S_S)-(+)-2-(*p*-tolylsulfinyl)prop-2-en-1-ol with methanesulfonyl chloride

Absolute configuration: (S_S)

Francesc Márquez, Amadeu Llebaria and Antonio Delgado*

Tetrahedron: Asymmetry *12 (2001) 1625*



$C_{15}H_{22}SO_2$

(3*S*,R_S)-2,2-Dimethyl-5-(*p*-tolylsulfinyl)-5-hexen-3-ol

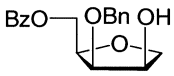
$[\alpha]_D = -19.75$ (*c* 0.80, acetone)

Source of chirality: diastereoselective allylation of pivalaldehyde with (S_S)-(+)-3-chloro-2-(*p*-tolylsulfinyl)prop-2-ene or (S_S)-(+)-2-(*p*-tolylsulfinyl)prop-2-en-1-ol

Absolute configuration: (S,R_S)

Fernando Bravo, Yolanda Díaz and Sergio Castillón*

Tetrahedron: Asymmetry *12 (2001) 1635*



$C_{19}H_{20}O_5$

(3*R*,4*R*,5*R*)-5-[(Benzoyloxy)methyl]-4-(benzyloxy)tetrahydrofuran-3-ol

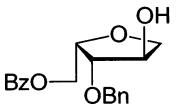
$[\alpha]_D = +13.4$ (*c* 1.80, $CHCl_3$)

Source of chirality: D-glyceraldehyde

Absolute configuration: (3*R*,4*R*,5*R*)

Fernando Bravo, Yolanda Díaz and Sergio Castillón*

Tetrahedron: Asymmetry *12 (2001) 1635*



$C_{19}H_{20}O_5$

(3*R*,4*S*,5*S*)-5-[(Benzoyloxy)methyl]-4-(benzyloxy)tetrahydrofuran-3-ol

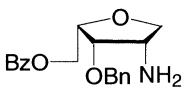
$[\alpha]_D = +21.8$ (*c* 1.22, $CHCl_3$)

Source of chirality: D-glyceraldehyde

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

Fernando Bravo, Yolanda Díaz and Sergio Castillón*

Tetrahedron: Asymmetry *12 (2001) 1635*



$C_{19}H_{21}NO_4$

(2*S*,3*S*,4*S*)-4-Amino-2-[(benzoyloxy)methyl]-3-(benzyloxy)tetrahydrofuran

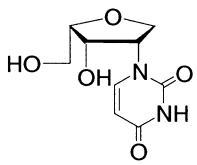
$[\alpha]_D = +6.5$ (*c* 0.82, $CHCl_3$)

Source of chirality: D-glyceraldehyde

Absolute configuration: (2*S*,3*S*,4*S*)

Fernando Bravo, Yolanda Díaz and Sergio Castillón*

Tetrahedron: Asymmetry *12 (2001) 1635*



$C_9H_{12}N_2O_5$

1-[(3*S*,4*S*,5*S*)-4-Hydroxy-5-(hydroxymethyl)tetrahydrofuran-3-yl]uracil

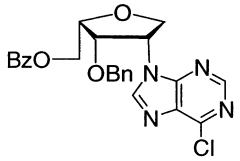
$[\alpha]_D = -85.2$ (*c* 0.72, $CHCl_3$)

Source of chirality: D-glyceraldehyde

Absolute configuration: (3*S*,4*S*,5*S*)

Fernando Bravo, Yolanda Díaz and Sergio Castillón*

Tetrahedron: Asymmetry *12 (2001) 1635*



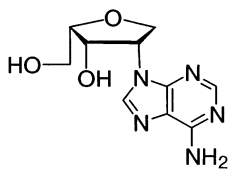
$[\alpha]_D = -56.2$ (c 1.30, $CHCl_3$)
Source of chirality: D-glyceraldehyde
Absolute configuration: (3*S*,4*S*,5*S*)

$C_{24}H_{20}ClN_4O_4$

9-[(3*S*,4*S*,5*S*)-5-[(Benzoyloxy)methyl]-4-(benzyloxy)tetrahydrofuran-3-yl]-6-chloropurine

Fernando Bravo, Yolanda Díaz and Sergio Castillón*

Tetrahedron: Asymmetry *12 (2001) 1635*



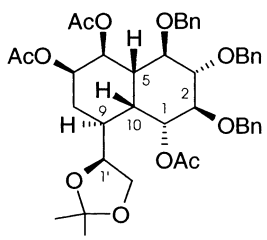
$[\alpha]_D = -26.6$ (c 0.270, $CHCl_3$)
Source of chirality: D-glyceraldehyde
Absolute configuration: (3*S*,4*S*,5*S*)

$C_{10}H_{13}N_5O_3$

6-Amino-9-[(3*S*,4*S*,5*S*)-4-hydroxy-5-(hydroxymethyl)tetrahydrofuran-3-yl]purine

Sławomir Jarosz* and Stanisław Skóra

Tetrahedron: Asymmetry *12 (2001) 1651*



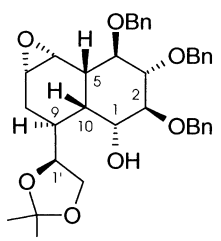
$[\alpha]_D = -13.7$ (c 1.50, $CHCl_3$)
Source of chirality: chiral pool
Absolute configuration:
(1*R*,1′*S*,2*S*,3*S*,4*R*,5*R*,6*S*,7*R*,9*S*,10*R*)

$C_{42}H_{50}O_{11}$

1,6,7-Tri-acetoxy-2,3,4-tri-benzyloxy-9-[5,5-dimethyl-2,4-dioxolane-1′-yl]decalin

Sławomir Jarosz* and Stanisław Skóra

Tetrahedron: Asymmetry *12 (2001) 1651*



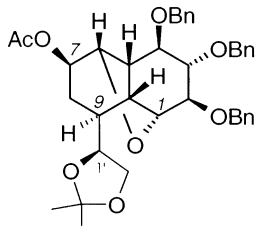
$[\alpha]_D = +35.8$ (c 1.50, $CHCl_3$)
Source of chirality: chiral pool
Absolute configuration:
(1*R*,1′*S*,2*S*,3*S*,4*R*,5*R*,6*R*,7*S*,9*S*,10*R*)

$C_{36}H_{42}O_7$

6,7-Anhydro-1-hydroxy-2,3,4-tri-benzyloxy-9-[5,5-dimethyl-2,4-dioxolane-1′-yl]decalin

Sławomir Jarosz* and Stanisław Skóra

Tetrahedron: Asymmetry *12 (2001) 1651*



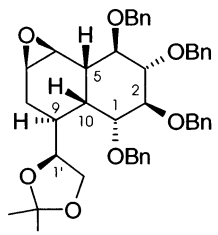
$[\alpha]_D = -11.7$ (c 1.50, $CHCl_3$)
Source of chirality: chiral pool
Absolute configuration:
(1*R*,1′*S*,2*S*,3*S*,4*R*,5*R*,6*R*,7*R*,9*S*,10*R*)

$C_{38}H_{44}O_8$

7-*O*-Acetyl-1,6-anhydro-2,3,4-tri-benzyloxy-9-[5,5-dimethyl-2,4-dioxolane-1′-yl]decalin

Sławomir Jarosz* and Stanisław Skóra

Tetrahedron: Asymmetry *12 (2001) 1651*



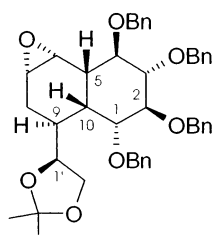
$[\alpha]_D = +70.5$ (c 1.50, $CHCl_3$)
Source of chirality: chiral pool
Absolute configuration:
(1*R*,1′*S*,2*S*,3*S*,4*R*,5*R*,6*S*,7*R*,9*S*,10*R*)

$C_{43}H_{48}O_7$

6,7-Anhydro-1,2,3,4-tetra-benzyloxy-9-[5,5-dimethyl-2,4-dioxolane-1′-yl]decalin

Sławomir Jarosz* and Stanisław Skóra

Tetrahedron: Asymmetry *12 (2001) 1651*



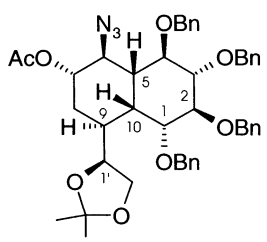
$[\alpha]_D = +42.3$ (c 1.50, $CHCl_3$)
Source of chirality: chiral pool
Absolute configuration:
(1*R*,1′*S*,2*S*,3*S*,4*R*,5*R*,6*R*,7*S*,9*S*,10*R*)

$C_{43}H_{48}O_7$

6,7-Anhydro-1,2,3,4-tetra-benzyloxy-9-[5,5-dimethyl-2,4-dioxolane-1′-yl]decalin

Sławomir Jarosz* and Stanisław Skóra

Tetrahedron: Asymmetry *12 (2001) 1651*



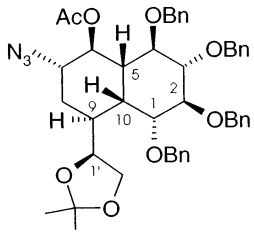
$[\alpha]_D = +10.7$ (c 1.50, $CHCl_3$)
Source of chirality: chiral pool
Absolute configuration:
(1*R*,1′*S*,2*S*,3*S*,4*R*,5*R*,6*S*,7*S*,9*S*,10*R*)

$C_{45}H_{51}N_3O_7$

6-Azido-7-acetoxy-1,2,3,4-tetra-benzyloxy-9-[5,5-dimethyl-2,4-dioxolane-1′-yl]decalin

Sławomir Jarosz* and Stanisław Skóra

Tetrahedron: Asymmetry *12 (2001) 1651*



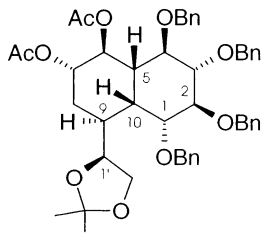
$C_{45}H_{51}N_3O_8$

7-Azido-6-acetoxy-1,2,3,4-tetra-benzyloxy-9-[5,5-dimethyl-2,4-dioxolane-1′-yl]decalin

$[\alpha]_D = +34.2$ (c 1.50, $CHCl_3$)
Source of chirality: chiral pool
Absolute configuration:
(1*R*,1′*S*,2*S*,3*S*,4*R*,5*R*,6*S*,7*S*,9*S*,10*R*)

Sławomir Jarosz* and Stanisław Skóra

Tetrahedron: Asymmetry *12 (2001) 1651*



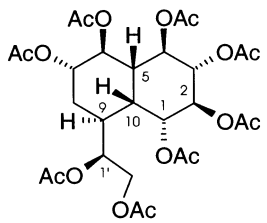
$C_{47}H_{54}O_{10}$

6,7-Di-acetoxy-1,2,3,4-tetrabenzyloxy-9-[5,5-dimethyl-2,4-dioxolane-1′-yl]decalin

$[\alpha]_D = +17.9$ (c 1.50, $CHCl_3$)
Source of chirality: chiral pool
Absolute configuration:
(1*R*,1′*S*,2*S*,3*S*,4*R*,5*R*,6*S*,7*S*,9*S*,10*R*)

Sławomir Jarosz* and Stanisław Skóra

Tetrahedron: Asymmetry *12 (2001) 1651*



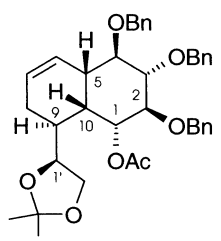
$C_{28}H_{38}O_{16}$

1,2,3,4,6,7-Hexa-acetoxy-9-C-(1′,2′-diacetoxy-1′ethyl)decalin

$[\alpha]_D = +10.3$ (c 1.50, $CHCl_3$)
Source of chirality: chiral pool
Absolute configuration:
(1*R*,1′*S*,2*S*,3*S*,4*R*,5*S*,6*S*,7*S*,9*S*,10*R*)

Sławomir Jarosz* and Stanisław Skóra

Tetrahedron: Asymmetry *12 (2001) 1651*



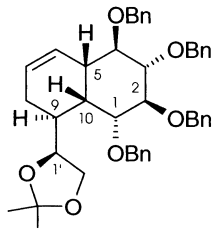
$C_{38}H_{44}O_7$

1-Acetoxy-2,3,4-tri-benzyloxy-6,7-ene-9-[5,5-dimethyl-2,4-dioxolane-1′-yl]decalin

$[\alpha]_D = +91.5$ (c 1.50, $CHCl_3$)
Source of chirality: chiral pool
Absolute configuration: (1*R*,1′*S*,2*S*,3*S*,4*R*,5*S*,9*S*,10*R*)

Sławomir Jarosz* and Stanisław Skóra

Tetrahedron: Asymmetry *12 (2001) 1651*



$C_{43}H_{48}O_6$

1-Benzyloxy-2,3,4-tri-benzyloxy-6,7-ene-9-[5,5-dimethyl-2,4-dioxolane-1′-yl]decalin

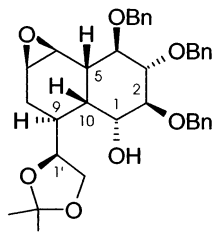
$[\alpha]_D = +87.8$ (c 1.50, $CHCl_3$)

Source of chirality: chiral pool

Absolute configuration: (1*R*,1′*S*,2*S*,3*S*,4*R*,5*S*,9*S*,10*R*)

Sławomir Jarosz* and Stanisław Skóra

Tetrahedron: Asymmetry *12 (2001) 1651*



$C_{36}H_{42}O_7$

6,7-Anhydro-1-hydroxy-2,3,4-tri-benzyloxy-9-[5,5-dimethyl-2,4-dioxolane-1′-yl]decalin

$[\alpha]_D = +68.4$ (c 1.50, $CHCl_3$)

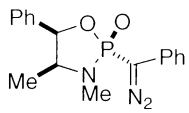
Source of chirality: chiral pool

Absolute configuration:

(1*R*,1′*S*,2*S*,3*S*,4*R*,5*R*,6*S*,7*R*,9*S*,10*R*)

Christopher J. Moody,* C. Neil Morfitt and Alexandra M. Z. Slawin

Tetrahedron: Asymmetry *12 (2001) 1657*



$C_{17}H_{18}N_3O_2P$

(2*R*,4*S*,5*R*)-2-(α-Diazobenzyl)-3,4-dimethyl-2-oxo-5-phenyl-1,3,2λ^5-oxazaphospholidine

Ee >99%

$[\alpha]_D^{21} = -43.2$ (c 1.0, $CHCl_3$)

Source of chirality: (−)-ephedrine

Absolute configuration: (2*R*,4*S*,5*R*)

Christopher J. Moody,* C. Neil Morfitt and Alexandra M. Z. Slawin

Tetrahedron: Asymmetry *12 (2001) 1657*

$C_{17}H_{18}N_3O_2P$

(2*S*,4*S*,5*R*)-2-(α-Diazobenzyl)-3,4-dimethyl-2-oxo-5-phenyl-1,3,2λ^5-oxazaphospholidine

Ee >99%

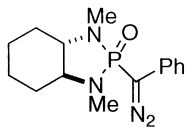
$[\alpha]_D^{21} = -15.6$ (c 1.0, $CHCl_3$)

Source of chirality: (−)-ephedrine

Absolute configuration: (2*S*,4*S*,5*R*)

Christopher J. Moody,* C. Neil Morfitt and Alexandra M. Z. Slawin

Tetrahedron: Asymmetry *12 (2001) 1657*



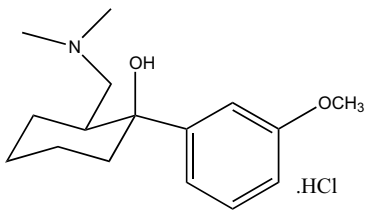
Ee >99%
$[\alpha]_D^{21} = +7.3$ (*c* 1.0, $CHCl_3$)
Source of chirality: (*S*,*S*)-1,2-diaminocyclohexane
Absolute configuration: (3a*S*,7a*S*)

$C_{15}H_{21}N_4OP$

(3a*S*,7a*S*)-2-Diazobenzyl-1,3,3a,4,5,6,7,7a-octahydro-1,3-dimethyl-1*H*-1,3,2λ^5-benzodiazaphosphole-2-oxide

Graham R. Evans,* James A. Henshilwood and John O'Rourke

Tetrahedron: Asymmetry *12 (2001) 1663*



E.e. >99.5%
$[\alpha]_D = -34.3$ (*c* 1.27, MeOH)
Source of chirality: resolution with DTTA
Absolute configuration: (1*S*,2*S*)

$C_{16}H_{26}ClNO_2$

(−)-Tramadol hydrochloride