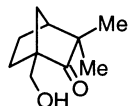


Antonio García Martínez,* Enrique Teso Vilar,
Amelia García Fraile, Santiago de la Moya Cerero* and
Beatriz Lora Maroto

Tetrahedron: Asymmetry 12 (2001) 3325



(1*R*)-10-Hydrofenchone

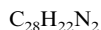
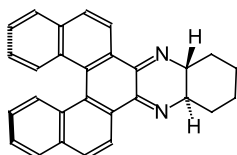
$[\alpha]_{\text{D}}^{20} = +46$ (c 0.2, CH_2Cl_2)

Source of chirality: natural (1*R*)-fenchone and
enantiospecific synthesis

Absolute configuration: 1*R*

Martin Putala,* Nikola Kastner-Pustet and Albrecht Mannschreck

Tetrahedron: Asymmetry 12 (2001) 3333



(*M*,4*aR*,10*aR*)-1,2,3,4,4*a*,10*a*-Hexahydrodinaphtho[2,1-*h*;1',2'-*j*]phenazine

E.e., d.e.: >99% (NMR)

$[\alpha]_{\text{D}}^{23} = -1400$ (c 0.51, CHCl_3)

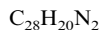
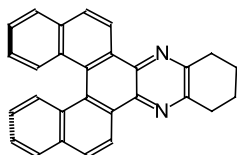
CD: $[-]_{230}$, $[+]_{240}$, $[-]_{260}$, $[-]_{330}$ (n -hexane/EtOH, 85:15)

Source of chirality: stereoselective synthesis

Absolute configuration: (*M*,4*aR*,10*aR*) (chemical
correlation)

Martin Putala,* Nikola Kastner-Pustet and Albrecht Mannschreck

Tetrahedron: Asymmetry 12 (2001) 3333



(*P*)-1,2,3,4-Tetrahydrodinaphtho[2,1-*h*;1',2'-*j*]phenazine

E.e.: 98% (HPLC)

$[\alpha]_{\text{D}}^{20} = +3960$ (436 nm), +1260 (578 nm)

($\text{CH}_2\text{Cl}_2/n$ -hexane 75:25, +5% MeCN)

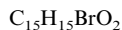
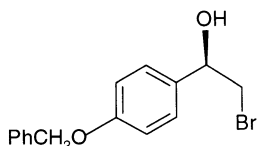
CD: $\Delta\epsilon_{224} +119$, $\Delta\epsilon_{247} -104$, $\Delta\epsilon_{270} +18$, $\Delta\epsilon_{275} +18$, $\Delta\epsilon_{297} +105$, $\Delta\epsilon_{342} -11$, $\Delta\epsilon_{375} +4$, $\Delta\epsilon_{380} +3$, $\Delta\epsilon_{395} +8$ ($\text{CH}_2\text{Cl}_2/n$ -hexane 75:25, +5% MeCN)

Source of chirality: enantioselective micropreparative
MPLC

Absolute configuration: (*P*) (anomalous X-ray
diffraction)

Jonali Goswami, Rajiv L. Bezbaruah, Amrit Goswami*
and Naleen Borthakur

Tetrahedron: Asymmetry 12 (2001) 3343



(*R*)-(-)-2-Bromo-1-(4-benzyloxyphenyl)ethanol

E.e. = 94%

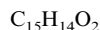
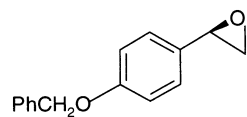
$[\alpha]_{\text{D}}^{25} = -8.5$ (c 4, CHCl_3)

Source of chirality: microbial reduction

Absolute configuration: *R*

Jonali Goswami, Rajiv L. Bezbaruah, Amrit Goswami*
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Tetrahedron: Asymmetry 12 (2001) 3343



(R)-(-)-4-Benzyloxy styrene oxide

E.e. = 94%

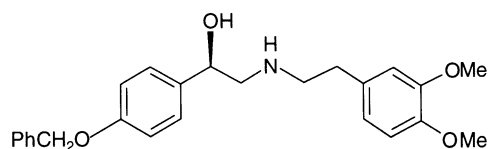
$[\alpha]_D^{25} = -15$ ($c = 1.0$, $CHCl_3$)

Source of chirality: microbial reduction

Absolute configuration: *R*

Jonali Goswami, Rajiv L. Bezbaruah, Amrit Goswami*
and Naleen Borthakur

Tetrahedron: Asymmetry 12 (2001) 3343



(R)-(-)-2-(3,4-Dimethoxyphenethylamino)-1-(4-benzyloxyphenyl)ethanol

E.e. = 94%

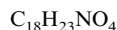
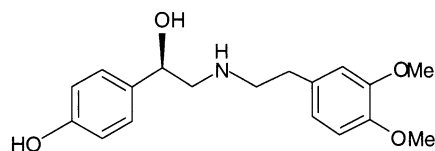
$[\alpha]_D^{25} = -34.3$ ($c = 1.0$, $CHCl_3$)

Source of chirality: microbial reduction

Absolute configuration: *R*

Jonali Goswami, Rajiv L. Bezbaruah, Amrit Goswami*
and Naleen Borthakur

Tetrahedron: Asymmetry 12 (2001) 3343



(R)-(-)-2-(3,4-Dimethoxyphenethylamino)-1-(4-hydroxyphenyl)ethanol

E.e. = 96.7%

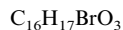
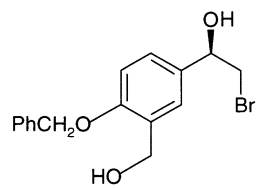
$[\alpha]_D^{25} = -26.8$ ($c = 1.0$, $MeOH$)

Source of chirality: microbial reduction

Absolute configuration: *R*

Jonali Goswami, Rajiv L. Bezbaruah, Amrit Goswami*
and Naleen Borthakur

Tetrahedron: Asymmetry 12 (2001) 3343



(R)-(-)-2-Bromo-1-(4-benzyloxy-3-hydroxymethylphenyl)ethanol

E.e. = 95%

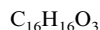
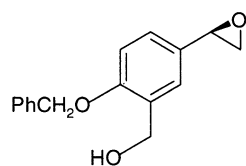
$[\alpha]_D^{25} = -25$ ($c = 4.0$, CH_2Cl_2)

Source of chirality: microbial reduction

Absolute configuration: *R*

Jonali Goswami, Rajiv L. Bezbaruah, Amrit Goswami*
and Naleen Borthakur

Tetrahedron: Asymmetry 12 (2001) 3343



(*R*)-(-)-4-Benzyloxy-3-hydroxymethylstyrene oxide

E.e. = 94%

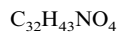
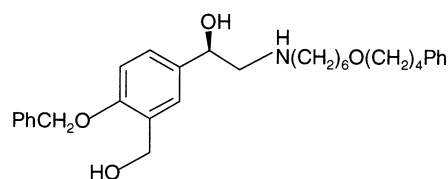
$[\alpha]_D^{25} = -19$ ($c = 1.0$, $CHCl_3$)

Source of chirality: microbial reduction

Absolute configuration: *R*

Jonali Goswami, Rajiv L. Bezbaruah, Amrit Goswami*
and Naleen Borthakur

Tetrahedron: Asymmetry 12 (2001) 3343



(*R*)-(-)-2-[6-(4-Phenylbutyloxy)-*n*-hexyl]amino-1-(4-benzyloxy-3-hydroxymethylphenyl)ethanol

E.e. = 94%

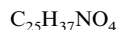
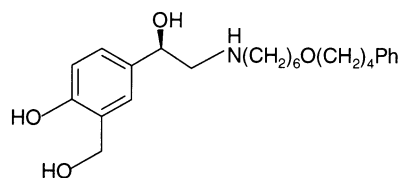
$[\alpha]_D^{25} = -25$ ($c = 1.0$, $CHCl_3$)

Source of chirality: microbial reduction

Absolute configuration: *R*

Jonali Goswami, Rajiv L. Bezbaruah, Amrit Goswami*
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Tetrahedron: Asymmetry 12 (2001) 3343



(*R*)-(-)-2-[6-(4-Phenylbutyloxy)-*n*-hexyl]amino-1-(4-hydroxy-3-hydroxymethylphenyl)ethanol

E.e. = 94.24%

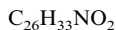
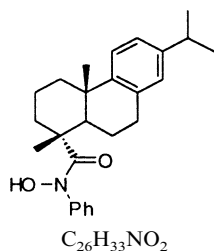
$[\alpha]_D^{25} = -21.6$ ($c = 1.0$, $MeOH$)

Source of chirality: microbial reduction

Absolute configuration: *R*

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Tetrahedron: Asymmetry 12 (2001) 3349



N-Hydroxy-*N*-phenyldehydroabietamide

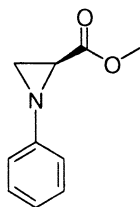
$[\alpha]_D^{20} = +36$ ($c = 0.99$, CH_2Cl_2)

Source of chirality: dehydroabietic acid

Absolute configuration: 4*R*,10*S*

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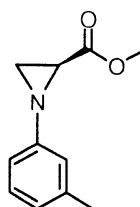
$C_{10}H_{11}NO_2$

Methyl (2*S*)-*N*-phenylaziridine-2-carboxylate

E.e. >90% (by 1H NMR with $Eu(tfc)_3$)
 $[\alpha]_D^{20} = -206$ (c 0.64, CH_2Cl_2)
 Source of chirality: asymmetric synthesis
 Absolute configuration: 2*S*

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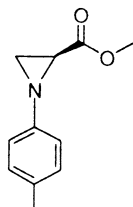
$C_{11}H_{13}NO_2$

Methyl (2*S*)-*N*-(methylphenyl)aziridine-2-carboxylate

E.e. = 20% (by 1H NMR with $Eu(tfc)_3$)
 $[\alpha]_D^{25} = -43$ (c 0.45, CH_2Cl_2)
 Source of chirality: asymmetric synthesis
 Absolute configuration: 2*S*

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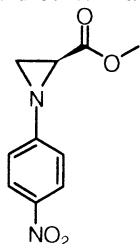
$C_{11}H_{13}NO_2$

Methyl (2*S*)-*N*-(*p*-methylphenyl)aziridine-2-carboxylate

E.e. = 49% (by 1H NMR with $Eu(tfc)_3$)
 $[\alpha]_D^{20} = -71$ (c 0.04, CH_2Cl_2)
 Source of chirality: asymmetric synthesis
 Absolute configuration: 2*S*

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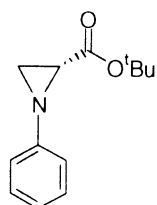
$C_{10}H_{10}N_2O_4$

Methyl (2*S*)-*N*-(*p*-nitrophenyl)aziridine-2-carboxylate

E.e. = 17% (by 1H NMR with $Eu(tfc)_3$)
 $[\alpha]_D^{20} = -51$ (c 0.20, CH_2Cl_2)
 Source of chirality: asymmetric synthesis
 Absolute configuration: 2*S*

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Tetrahedron: Asymmetry 12 (2001) 3349



$C_{13}H_{17}NO_2$

tert-Butyl (2*R*)-*N*-phenylaziridine-2-carboxylate

E.e. = 45% (by HPLC analysis on Chiralcel®
OD column)

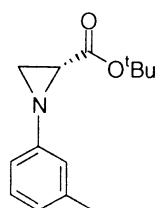
$[\alpha]_D^{20} = +66$ (*c* 1.06, CH₂Cl₂)

Source of chirality: asymmetric synthesis

Absolute configuration: 2*R*

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$C_{14}H_{19}NO_2$

tert-Butyl (2*R*)-*N*-(*m*-methylphenyl)aziridine-2-carboxylate

E.e. = 43% (by HPLC analysis on Chiralcel®
OD column)

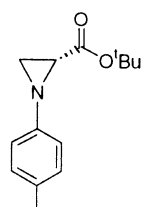
$[\alpha]_D^{20} = +69$ (*c* 0.60, CH₂Cl₂)

Source of chirality: asymmetric synthesis

Absolute configuration: 2*R*

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$C_{14}H_{19}NO_2$

tert-Butyl (2*R*)-*N*-(*p*-methylphenyl)aziridine-2-carboxylate

E.e. = 51% (by HPLC analysis on Chiralcel®
OD column)

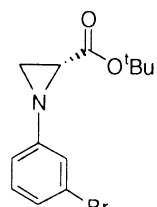
$[\alpha]_D^{20} = +84$ (*c* 0.64, CH₂Cl₂)

Source of chirality: asymmetric synthesis

Absolute configuration: 2*R*

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Tetrahedron: Asymmetry 12 (2001) 3349



$C_{13}H_{16}NO_2Br$

tert-Butyl (2*R*)-*N*-(*m*-bromophenyl)aziridine-2-carboxylate

E.e. = 16% (by HPLC analysis on Chiralcel®
OD column)

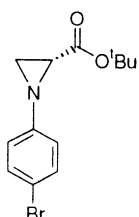
$[\alpha]_D^{20} = +20$ (*c* 0.84, CH₂Cl₂)

Source of chirality: asymmetric synthesis

Absolute configuration: 2*R*

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Tetrahedron: Asymmetry 12 (2001) 3349



$C_{13}H_{16}NO_2Br$

tert-Butyl (2*R*)-*N*-(*p*-bromophenyl)aziridine-2-carboxylate

E.e. = 36% (by HPLC analysis on Chiralcel®
OD column)

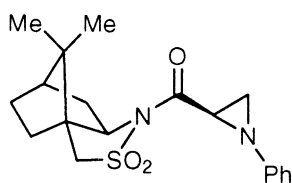
$[\alpha]_D^{20} = +46$ (*c* 0.56, CH_2Cl_2)

Source of chirality: asymmetric synthesis

Absolute configuration: 2*R*

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$C_{19}H_{24}N_2SO_3$

(2*R*,2'*R*)-1-Phenylaziridine-2-carboxylic acid, bornane-10',2'-sultam amide

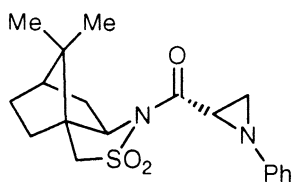
$[\alpha]_D^{20} = +27$ (*c* 0.23, CH_2Cl_2)

Source of chirality: (1*S*)-(-)-2,10-camphorsultam

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

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$C_{19}H_{24}N_2SO_3$

(2*S*,2'*R*)-1-Phenylaziridine-2-carboxylic acid, bornane-10',2'-sultam amide

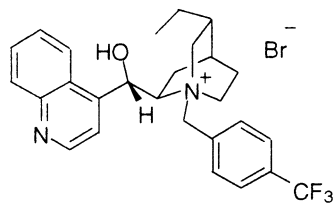
$[\alpha]_D^{20} = -456$ (*c* 0.01, CH_2Cl_2)

Source of chirality: (1*S*)-(-)-2,10-camphorsultam

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

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Tetrahedron: Asymmetry 12 (2001) 3349



$C_{27}H_{30}F_3N_2O$

(3*R*,4*S*,8*R*,9*S*)-*N*-[4-(Trifluoromethyl)benzyl]dihydrocinchoninium bromide

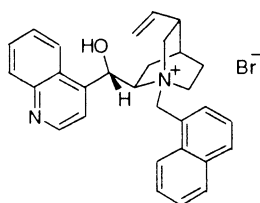
$[\alpha]_D^{20} = +114$ (*c* 0.08, $CHCl_3$)

Source of chirality: dihydrocinchonine

Absolute configuration: 3*R*,4*S*,8*R*,9*S*

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(3*R*,4*S*,8*R*,9*S*)-*N*-(2-Naphthylmethyl)cinchoninium bromide

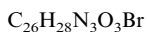
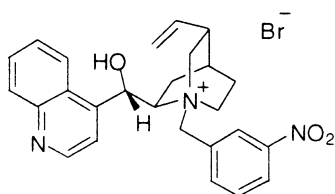
$[\alpha]_D^{20} = +148$ (*c* 0.08, $CHCl_3$)

Source of chirality: cinchonine

Absolute configuration: 3*R*,4*S*,8*R*,9*S*

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(3*R*,4*S*,8*R*,9*S*)-*N*-(3-Nitrobenzyl)cinchoninium bromide

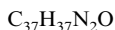
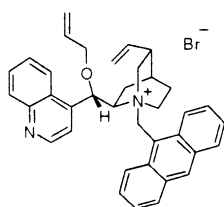
$[\alpha]_D^{20} = +156$ (*c* 0.11, $CHCl_3$)

Source of chirality: cinchonine

Absolute configuration: 3*R*,4*S*,8*R*,9*S*

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Tetrahedron: Asymmetry 12 (2001) 3349



(3*R*,4*S*,8*R*,9*S*)-*O*-Allyl-*N*-(9-anthracenylmethyl)cinchoninium bromide

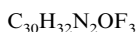
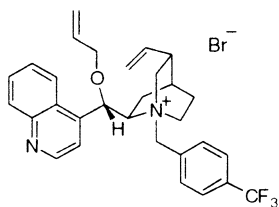
$[\alpha]_D^{20} = +270$ (*c* 0.16, $CHCl_3$)

Source of chirality: cinchonine

Absolute configuration: 3*R*,4*S*,8*R*,9*S*

João Aires-de-Sousa, Sundaresan Prabhakar,* Ana M. Lobo,
Ana M. Rosa, Mário J. S. Gomes, Marta C. Corvo,
David J. Williams and Andrew J. P. White

Tetrahedron: Asymmetry 12 (2001) 3349



(3*R*,4*S*,8*R*,9*S*)-*O*-Allyl-*N*-[4-(trifluoromethyl)benzyl]cinchoninium bromide

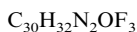
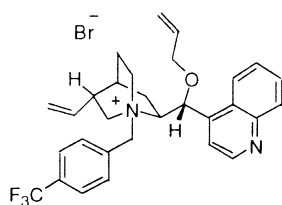
$[\alpha]_D^{20} = +134$ (*c* 0.18, $CHCl_3$)

Source of chirality: cinchonine

Absolute configuration: 3*R*,4*S*,8*R*,9*S*

João Aires-de-Sousa, Sundaresan Prabhakar,* Ana M. Lobo,
Ana M. Rosa, Mário J. S. Gomes, Marta C. Corvo,
David J. Williams and Andrew J. P. White

Tetrahedron: Asymmetry 12 (2001) 3349



(3*R*,4*S*,8*S*,9*R*)-*O*-Allyl-*N*-[4-(trifluoromethyl)benzyl]cinchonidinium bromide

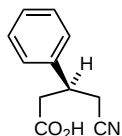
$[\alpha]_{\text{D}}^{20} = -149$ (*c* 0.12, CHCl_3)

Source of chirality: cinchonidine

Absolute configuration: 3*R*,4*S*,8*S*,9*R*

Mei-Xiang Wang,* Chu-Sheng Liu and Ji-Sheng Li

Tetrahedron: Asymmetry 12 (2001) 3367



3*S*-4-Cyano-3-phenylbutanoic acid

E.e. = 88%

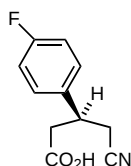
$[\alpha]_{\text{D}}^{20} = +22$ (*c* 1.0, CHCl_3)

Source of chirality: enzymatic asymmetrization

Absolute configuration: *S*

Mei-Xiang Wang,* Chu-Sheng Liu and Ji-Sheng Li

Tetrahedron: Asymmetry 12 (2001) 3367



3*S*-4-Cyano-3-(4-fluorophenyl)butanoic acid

E.e. = 76%

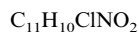
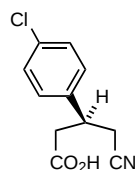
$[\alpha]_{\text{D}}^{20} = +46.7$ (*c* 0.9, CHCl_3)

Source of chirality: enzymatic asymmetrization

Absolute configuration: *S*

Mei-Xiang Wang,* Chu-Sheng Liu and Ji-Sheng Li

Tetrahedron: Asymmetry 12 (2001) 3367



3*S*-3-(4-Chlorophenyl)-4-cyanobutanoic acid

E.e. = 63%

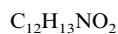
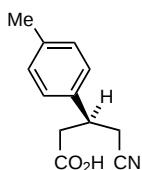
$[\alpha]_{\text{D}}^{25} = +14.3$ (*c* 1.4, CHCl_3)

Source of chirality: enzymatic asymmetrization

Absolute configuration: *S*

Mei-Xiang Wang,* Chu-Sheng Liu and Ji-Sheng Li

Tetrahedron: Asymmetry 12 (2001) 3367



3*S*-4-Cyano-3-(methylphenyl)butanoic acid

E.e. = 95%

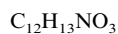
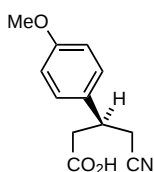
$[\alpha]_D^{20} = +24$ (*c* 1.0, $CHCl_3$)

Source of chirality: enzymatic asymmetrization

Absolute configuration: *S*

Mei-Xiang Wang,* Chu-Sheng Liu and Ji-Sheng Li

Tetrahedron: Asymmetry 12 (2001) 3367



3*S*-4-Cyano-3-(4-methoxyphenyl)butanoic acid

E.e. = 79%

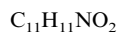
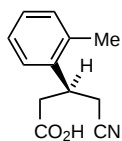
$[\alpha]_D^{25} = +22.4$ (*c* 1.25, $CHCl_3$)

Source of chirality: enzymatic asymmetrization

Absolute configuration: *S*

Mei-Xiang Wang,* Chu-Sheng Liu and Ji-Sheng Li

Tetrahedron: Asymmetry 12 (2001) 3367



3*S*-4-Cyano-3-(2-methylphenyl)butanoic acid

E.e. = 35%

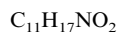
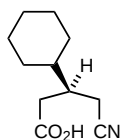
$[\alpha]_D^{25} = +3.16$ (*c* 1.25, $CHCl_3$)

Source of chirality: enzymatic asymmetrization

Absolute configuration: *S*

Mei-Xiang Wang,* Chu-Sheng Liu and Ji-Sheng Li

Tetrahedron: Asymmetry 12 (2001) 3367



(-)-4-Cyano-3-cyclohexylbutanoic acid

E.e. = 83%

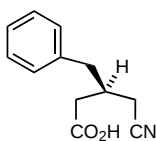
$[\alpha]_D^{20} = -3.53$ (*c* 1.7, $CHCl_3$)

Source of chirality: enzymatic asymmetrization

Absolute configuration: *S*

Mei-Xiang Wang,* Chu-Sheng Liu and Ji-Sheng Li

Tetrahedron: Asymmetry 12 (2001) 3367



$C_{12}H_{13}NO_2$

(-)-3-Benzyl-4-cyanobutanoic acid

E.e. = 32%

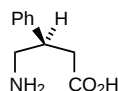
$[\alpha]_D^{20} = -2.86$ (*c* 1.4, $CHCl_3$)

Source of chirality: enzymatic asymmetric synthesis

Absolute configuration: *S*

Mei-Xiang Wang,* Chu-Sheng Liu and Ji-Sheng Li

Tetrahedron: Asymmetry 12 (2001) 3367



$C_{10}H_{13}NO_2$

3*R*-4-Amino-3-phenylbutanoic acid

E.e. = 85%

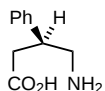
$[\alpha]_D^{25} = -5.3$ (*c* 1.85, H_2O , pH 7.0)

Source of chirality: chemoenzymatic synthesis

Absolute configuration: *R*

Mei-Xiang Wang,* Chu-Sheng Liu and Ji-Sheng Li

Tetrahedron: Asymmetry 12 (2001) 3367



$C_{10}H_{13}NO_2$

3*S*-4-Amino-3-phenylbutanoic acid

E.e. = 87%

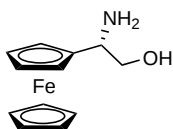
$[\alpha]_D^{25} = +4.5$ (*c* 2.0, H_2O pH 7.0)

Source of chirality: chemoenzymatic synthesis

Absolute configuration: *S*

Angela Patti,* Matthias Lotz and Paul Knochel

Tetrahedron: Asymmetry 12 (2001) 3375



$C_{12}H_{15}FeNO$

(*R*)-1-[1-Amino-2-hydroxyethyl]ferrocene

E.e. >95%

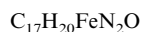
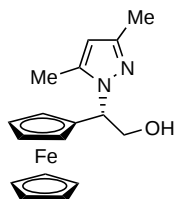
$[\alpha]_D = -11.0$ (*c* 0.52, $CHCl_3$)

Source of chirality: (*R*)-1-[1-hydroxy-2-chloroethyl]ferrocene

Absolute configuration: *R*

Angela Patti,* Matthias Lotz and Paul Knochel

Tetrahedron: Asymmetry 12 (2001) 3375



(*R*)-1-[1-(3,5-Dimethylpyrazolyl)-2-hydroxyethyl]ferrocene

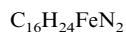
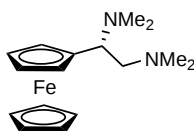
$[\alpha]_D = -28.5$ (c 0.42, $CHCl_3$)

Source of chirality: (*R*)-1-[1-hydroxy-2-chloroethyl]ferrocene

Absolute configuration: *R*

Angela Patti,* Matthias Lotz and Paul Knochel

Tetrahedron: Asymmetry 12 (2001) 3375



(*R*)-1-[1,2-(Dimethylamino)ethyl]ferrocene

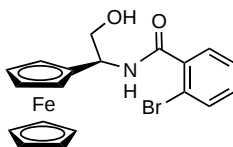
$[\alpha]_D = +47.6$ (c 0.25, $CHCl_3$)

Source of chirality: (*R*)-1-[1-hydroxy-2-chloroethyl]ferrocene

Absolute configuration: *R*

Angela Patti,* Matthias Lotz and Paul Knochel

Tetrahedron: Asymmetry 12 (2001) 3375



(*R*)-*N*-(1-Ferrocenyl-2-hydroxyethyl)(2-bromophenyl)carboxamide

E.e. >95%

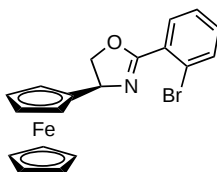
$[\alpha]_D = -36.5$ (c 0.76, $CHCl_3$)

Source of chirality: (*R*)-1-[1-amino-2-hydroxyethyl]-ferrocene

Absolute configuration: *R*

Angela Patti,* Matthias Lotz and Paul Knochel

Tetrahedron: Asymmetry 12 (2001) 3375



(*R*)-4-Ferrocenyl-2-(2-bromophenyl)-1,3-oxazoline

E.e. >95%

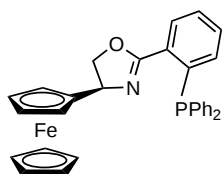
$[\alpha]_D = +54.1$ (c 0.50, $CHCl_3$)

Source of chirality: (*R*)-1-[1-amino-2-hydroxyethyl]-ferrocene

Absolute configuration: *R*

Angela Patti,* Matthias Lotz and Paul Knochel

Tetrahedron: Asymmetry 12 (2001) 3375



$C_{31}H_{26}FeNOP$

(*R*)-4-Ferrocenyl-2-[(2-diphenylphosphino)phenyl]-1,3-oxazoline

E.e. >95%

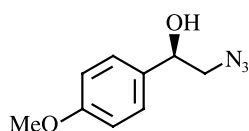
$[\alpha]_D^{25} = +72.5$ (*c* 1.04, $CHCl_3$)

Source of chirality: (*R*)-1-[1-amino-2-hydroxyethyl]-ferrocene

Absolute configuration: *R*

J. S. Yadav,* P. Thirupathi Reddy, S. Nanda and A. Bhaskar Rao

Tetrahedron: Asymmetry 12 (2001) 3381



$C_9H_{11}N_3O_2$

(*R*)-(-)-2-Azido-1-(4-methoxyphenyl)ethanol

E.e. = 99%

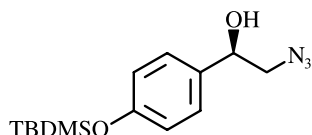
$[\alpha]_D^{25} = -40.1$ (*c* 1.02, $CHCl_3$)

Source of chirality: *Daucus carota*-mediated reduction

Absolute configuration: *R*

J. S. Yadav,* P. Thirupathi Reddy, S. Nanda and A. Bhaskar Rao

Tetrahedron: Asymmetry 12 (2001) 3381



$C_{14}H_{23}SiN_3O_2$

(*R*)-(-)-2-Azido-1-(4-*tert*-butylsilyloxyphenyl)ethanol

E.e. = 100%

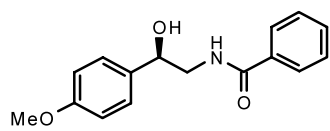
$[\alpha]_D^{25} = -59.5$ (*c* 1.00, $CHCl_3$)

Source of chirality: *Daucus carota*-mediated reduction

Absolute configuration: *R*

J. S. Yadav,* P. Thirupathi Reddy, S. Nanda and A. Bhaskar Rao

Tetrahedron: Asymmetry 12 (2001) 3381



$C_{16}H_{17}NO_3$

(*R*)-*N*-[2-Hydroxy-2-(4-methoxyphenyl)ethyl]benzamide

E.e. = 99%

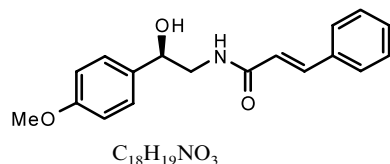
$[\alpha]_D^{25} = -59.6$ (*c* 0.52, $CHCl_3$)

Source of chirality: synthesis from azido alcohol

Absolute configuration: *R*

J. S. Yadav,* P. Thirupathi Reddy, S. Nanda and A. Bhaskar Rao

Tetrahedron: Asymmetry 12 (2001) 3381



(*R*)-*N*-[2-Hydroxy-2-(4-methoxyphenyl)ethyl]-3-phenyl-*E*-2-propenamide

E.e. = 99%

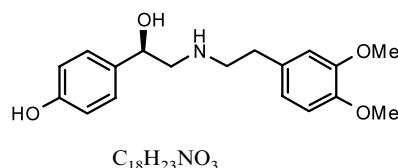
$[\alpha]_D^{25} = -36.1$ (*c* 0.45, $CHCl_3$)

Source of chirality: synthesis from azido alcohol

Absolute configuration: *R*

J. S. Yadav,* P. Thirupathi Reddy, S. Nanda and A. Bhaskar Rao

Tetrahedron: Asymmetry 12 (2001) 3381



(*R*)-[[[2-(3,4-Dimethoxyphenyl)ethyl]amino]methyl]-4-hydroxybenzenemethanol

E.e. = 99%

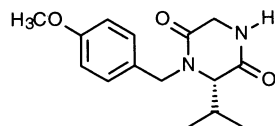
$[\alpha]_D^{25} = -27.8$ (*c* 1.02, MeOH)

Source of chirality: synthesis from azido alcohol

Absolute configuration: *R*

Fernando Hernández, Félix L. Buenadicha, Carmen Avendaño* and Mónica Söllhuber*

Tetrahedron: Asymmetry 12 (2001) 3387



(6*S*)-1-*p*-Methoxybenzyl-6-isopropylpiperazine-2,5-dione

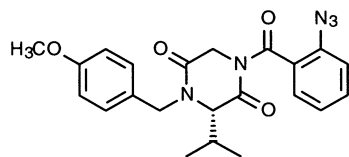
$[\alpha]_D^{25} = -9.0$ (*c* 0.24, $CHCl_3$)

Source of chirality: from (*S*)-valine

Absolute configuration: 6*S*

Fernando Hernández, Félix L. Buenadicha, Carmen Avendaño* and Mónica Söllhuber*

Tetrahedron: Asymmetry 12 (2001) 3387



(3*S*)-1-(*o*-Azidobenzoyl)-4-*p*-methoxybenzyl-3-isopropylpiperazine-2,5-dione

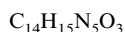
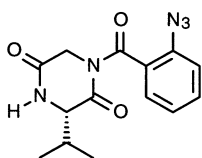
$[\alpha]_D^{25} = -123.0$ (*c* 0.27, $CHCl_3$)

Source of chirality: from (*S*)-valine

Absolute configuration: 3*S*

Fernando Hernández, Félix L. Buenadicha, Carmen Avendaño*
and Mónica Söllhuber*

Tetrahedron: Asymmetry 12 (2001) 3387



(3*S*)-1-(*o*-Azidobenzoyl)-3-isopropylpiperazine-2,5-dione

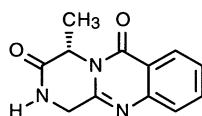
$[\alpha]_D^{25} = -86.4$ (*c* 0.25, $CHCl_3$)

Source of chirality: from (*S*)-valine

Absolute configuration: 3*S*

Fernando Hernández, Félix L. Buenadicha, Carmen Avendaño*
and Mónica Söllhuber*

Tetrahedron: Asymmetry 12 (2001) 3387



(4*S*)-4-Methyl-2,4-dihydro-1*H*-pyrazino[2,1-*b*]quinazoline-3,6-dione

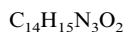
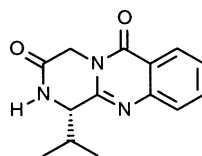
$[\alpha]_D^{25} = +146.9$ (*c* 0.28, DMSO)

Source of chirality: from (*S*)-alanine

Absolute configuration: 4*S*

Fernando Hernández, Félix L. Buenadicha, Carmen Avendaño*
and Mónica Söllhuber*

Tetrahedron: Asymmetry 12 (2001) 3387



(1*S*)-1-Isopropyl-2,4-dihydro-1*H*-pyrazino[2,1-*b*]quinazoline-3,6-dione

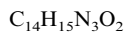
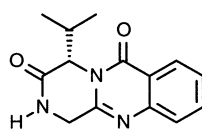
$[\alpha]_D^{25} = -26.0$ (*c* 0.28, DMSO)

Source of chirality: from (*S*)-valine

Absolute configuration: 1*S*

Fernando Hernández, Félix L. Buenadicha, Carmen Avendaño*
and Mónica Söllhuber*

Tetrahedron: Asymmetry 12 (2001) 3387



(4*S*)-4-Isopropyl-2,4-dihydro-1*H*-pyrazino[2,1-*b*]quinazoline-3,6-dione

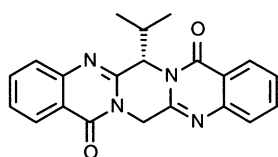
$[\alpha]_D^{25} = +132.0$ (*c* 0.22, $CHCl_3$)

Source of chirality: from (*S*)-valine

Absolute configuration: 4*S*

Fernando Hernández, Félix L. Buenadicha, Carmen Avendaño*
and Mónica Söllhuber*

Tetrahedron: Asymmetry 12 (2001) 3387



(6*S*)-6-Isopropyl-6,14-dihydroquinazolino[2',3'-5,4]pyrazino[2,1-*b*]quinazoline-3,6-dione

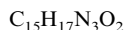
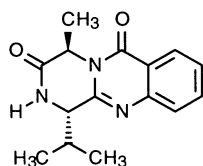
$[\alpha]_D^{25} = -155.6$ (*c* 0.32, $CHCl_3$)

Source of chirality: from (*S*)-valine

Absolute configuration: 6*S*

Fernando Hernández, Félix L. Buenadicha, Carmen Avendaño*
and Mónica Söllhuber*

Tetrahedron: Asymmetry 12 (2001) 3387



(1*S*,4*R*)-1-Isopropyl-4-methyl-2,4-dihydro-1*H*-pyrazino[2,1-*b*]quinazoline-3,6-dione

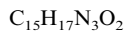
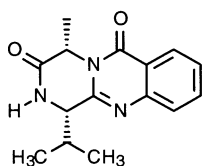
$[\alpha]_D^{25} = -124.7$ (*c* 0.09, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: 1*S*,4*R*

Fernando Hernández, Félix L. Buenadicha, Carmen Avendaño*
and Mónica Söllhuber*

Tetrahedron: Asymmetry 12 (2001) 3387



(1*S*,4*S*)-1-Isopropyl-4-methyl-2,4-dihydro-1*H*-pyrazino[2,1-*b*]quinazoline-3,6-dione

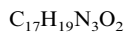
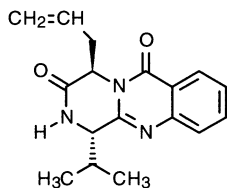
$[\alpha]_D^{25} = +25.5$ (*c* 0.17, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: 1*S*,4*S*

Fernando Hernández, Félix L. Buenadicha, Carmen Avendaño*
and Mónica Söllhuber*

Tetrahedron: Asymmetry 12 (2001) 3387



(1*S*,4*R*)-4-Allyl-1-isopropyl-2,4-dihydro-1*H*-pyrazino[2,1-*b*]quinazoline-3,6-dione

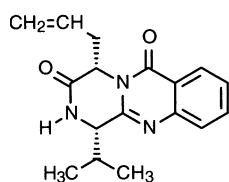
$[\alpha]_D^{25} = -285.0$ (*c* 0.30, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: 1*S*,4*R*

Fernando Hernández, Félix L. Buenadicha, Carmen Avendaño*
and Mónica Söllhuber*

Tetrahedron: Asymmetry 12 (2001) 3387



(1*S*,4*S*)-4-Allyl-1-isopropyl-2,4-dihydro-1*H*-pyrazino[2,1-*b*]quinazoline-3,6-dione

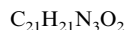
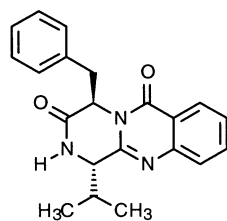
$[\alpha]_D^{25} = +134.4$ (*c* 0.09, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: 1*S*,4*S*

Fernando Hernández, Félix L. Buenadicha, Carmen Avendaño*
and Mónica Söllhuber*

Tetrahedron: Asymmetry 12 (2001) 3387



(1*S*,4*R*)-4-Benzyl-1-isopropyl-2,4-dihydro-1*H*-pyrazino[2,1-*b*]quinazoline-3,6-dione

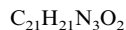
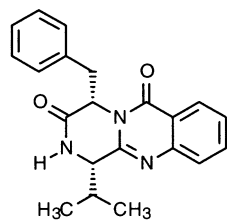
$[\alpha]_D^{25} = -225.0$ (*c* 0.05, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: 1*S*,4*R*

Fernando Hernández, Félix L. Buenadicha, Carmen Avendaño*
and Mónica Söllhuber*

Tetrahedron: Asymmetry 12 (2001) 3387



(1*S*,4*S*)-4-Benzyl-1-isopropyl-2,4-dihydro-1*H*-pyrazino[2,1-*b*]quinazoline-3,6-dione

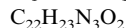
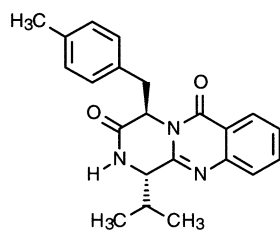
$[\alpha]_D^{25} = +154.4$ (*c* 0.48, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: 1*S*,4*S*

Fernando Hernández, Félix L. Buenadicha, Carmen Avendaño*
and Mónica Söllhuber*

Tetrahedron: Asymmetry 12 (2001) 3387



(1*S*,4*R*)-1-isopropyl-4-*p*-methylbenzyl-2,4-dihydro-1*H*-pyrazino[2,1-*b*]quinazoline-3,6-dione

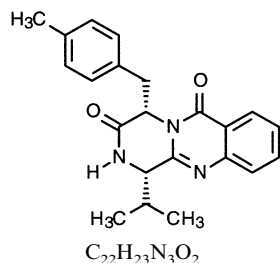
$[\alpha]_D^{25} = -340.0$ (*c* 0.11, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: 1*S*,4*R*

Fernando Hernández, Félix L. Buenadicha, Carmen Avendaño*
and Mónica Söllhuber*

Tetrahedron: Asymmetry 12 (2001) 3387

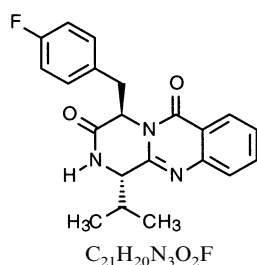


(1*S*,4*S*)-1-Isopropyl-4-*p*-methylbenzyl-2,4-dihydro-1*H*-pyrazino[2,1-*b*]quinazoline-3,6-dione

$[\alpha]_D^{25} = +161.7$ (*c* 0.06, $CHCl_3$)
Source of chirality: asymmetric synthesis
Absolute configuration: 1*S*,4*S*

Fernando Hernández, Félix L. Buenadicha, Carmen Avendaño*
and Mónica Söllhuber*

Tetrahedron: Asymmetry 12 (2001) 3387

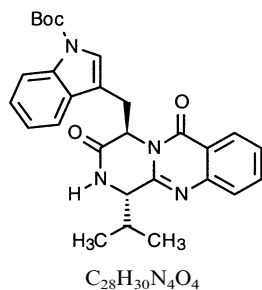


(1*S*,4*R*)-4-*p*-Fluorobenzyl-1-isopropyl-2,4-dihydro-1*H*-pyrazino[2,1-*b*]quinazoline-3,6-dione

$[\alpha]_D^{25} = -478.3$ (*c* 0.06, $CHCl_3$)
Source of chirality: asymmetric synthesis
Absolute configuration: 1*S*,4*R*

Fernando Hernández, Félix L. Buenadicha, Carmen Avendaño*
and Mónica Söllhuber*

Tetrahedron: Asymmetry 12 (2001) 3387

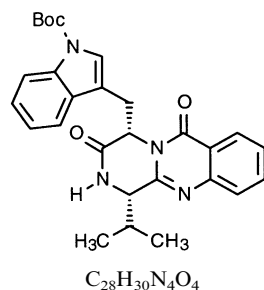


(1*S*,4*R*)-4-(*N*-Boc-3-indolylmethyl)-1-isopropyl-2,4-dihydro-1*H*-pyrazino[2,1-*b*]quinazoline-3,6-dione

$[\alpha]_D^{25} = -241.4$ (*c* 0.62, MeOH)
Source of chirality: asymmetric synthesis
Absolute configuration: 1*S*,4*R*

Fernando Hernández, Félix L. Buenadicha, Carmen Avendaño*
and Mónica Söllhuber*

Tetrahedron: Asymmetry 12 (2001) 3387

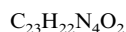
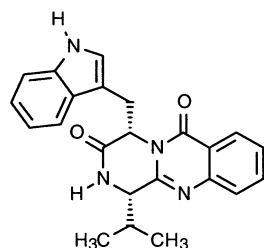


(1*S*,4*S*)-4-(*N*-Boc-3-indolylmethyl)-1-isopropyl-2,4-dihydro-1*H*-pyrazino[2,1-*b*]quinazoline-3,6-dione

$[\alpha]_D^{25} = +173.5$ (*c* 0.62, MeOH)
Source of chirality: asymmetric synthesis
Absolute configuration: 1*S*,4*S*

Fernando Hernández, Félix L. Buenadicha, Carmen Avendaño*
and Mónica Söllhuber*

Tetrahedron: Asymmetry 12 (2001) 3387



(1*S*,4*S*)-4-(3-Indolylmethyl)-1-isopropyl-2,4-dihydro-1*H*-pyrazino[2,1-*b*]quinazoline-3,6-dione

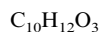
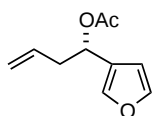
$[\alpha]_D^{25} = +255.0$ (*c* 0.02, MeOH)

Source of chirality: asymmetric synthesis

Absolute configuration: 1*S*,4*S*

Anja Bierstedt, Jörn Stölting, Roland Fröhlich and Peter Metz*

Tetrahedron: Asymmetry 12 (2001) 3399



(*S*)-1-(3'-Furyl)-3-buten-1-yl acetate

E.e. = 99%

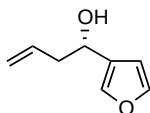
$[\alpha]_D^{25} = -65.9$ (*c* 1.06, CH₂Cl₂)

Source of chirality: enzymatic resolution

Absolute configuration: *S*

Anja Bierstedt, Jörn Stölting, Roland Fröhlich and Peter Metz*

Tetrahedron: Asymmetry 12 (2001) 3399



(*S*)-1-(3'-Furyl)-3-buten-1-ol

E.e. >95%

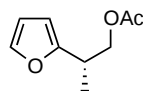
$[\alpha]_D^{25} = -30.7$ (*c* 1.72, CH₂Cl₂)

Source of chirality: enzymatic resolution

Absolute configuration: *S*

Anja Bierstedt, Jörn Stölting, Roland Fröhlich and Peter Metz*

Tetrahedron: Asymmetry 12 (2001) 3399



(*S*)-2-(2'-Furyl)-propan-1-yl acetate

E.e. = 98%

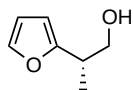
$[\alpha]_D^{25} = +5.3$ (*c* 1.75, CHCl₃)

Source of chirality: enzymatic resolution

Absolute configuration: *S*

Anja Bierstedt, Jörn Stölting, Roland Fröhlich and Peter Metz*

Tetrahedron: Asymmetry 12 (2001) 3399



$C_7H_{10}O_2$

(*S*)-2-(2'-Furyl)-propan-1-ol

E.e. >95%

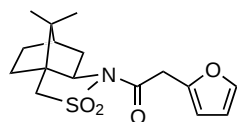
$[\alpha]_D^{25} = +6.5$ (*c* 1.00, $CHCl_3$)

Source of chirality: enzymatic resolution and asymmetric synthesis

Absolute configuration: *S*

Anja Bierstedt, Jörn Stölting, Roland Fröhlich and Peter Metz*

Tetrahedron: Asymmetry 12 (2001) 3399



$C_{16}H_{21}NO_4S$

(*2R*)-*N*-(1'-Oxy-2'-(2''-furyl)-ethyl)-bornane-2,10-sultam

E.e. >95%

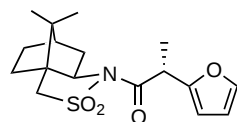
$[\alpha]_D^{20} = -112.3$ (*c* 1.02, $CHCl_3$)

Source of chirality: (*2R*)-bornane-2,10-sultam

Absolute configuration: *2R*

Anja Bierstedt, Jörn Stölting, Roland Fröhlich and Peter Metz*

Tetrahedron: Asymmetry 12 (2001) 3399



$C_{17}H_{23}NO_4S$

(*2R,2'R*)-*N*-(1'-Oxy-2'-(2''-furyl)-propyl)-bornane-2,10-sultam

E.e. >95%

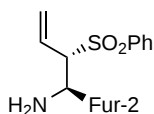
$[\alpha]_D^{20} = -65.7$ (*c* 0.47, $CHCl_3$)

Source of chirality: (*2R*)-bornane-2,10-sultam

Absolute configuration: *2R,2'R*

Ramaiah Kumareswaran and Alfred Hassner*

Tetrahedron: Asymmetry 12 (2001) 3409



$C_{14}H_{15}NSO_3$

(-)-(3*S*,4*R*)-4-Amino-3-phenylsulfonyl-4(2-furyl)but-1-ene

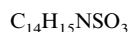
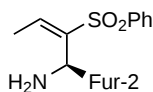
E.e. >98%

$[\alpha]_D^{25} = -32$ (*c* 0.9, $CHCl_3$)

Source of chirality: asymmetric synthesis

Ramaiah Kumareswaran and Alfred Hassner*

Tetrahedron: Asymmetry 12 (2001) 3409



(+)-(4*R*)-4-Amino-3-phenylsulfonyl-4-(2-furyl)-2(*E*)-butene

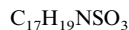
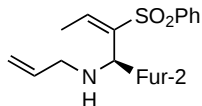
E.e. >98%

$[\alpha]_D^{25} +31$ (c 1, $CHCl_3$)

Source of chirality: asymmetric synthesis

Ramaiah Kumareswaran and Alfred Hassner*

Tetrahedron: Asymmetry 12 (2001) 3409



(-)-(4*R*)-*N*-(2-Propenyl)-3-phenylsulfonyl-4-(2-furyl)-2(*E*)-butenyl amine

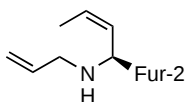
E.e. >98%

$[\alpha]_D^{25} -13$ (c 2.3, $CHCl_3$)

Source of chirality: asymmetric synthesis

Ramaiah Kumareswaran and Alfred Hassner*

Tetrahedron: Asymmetry 12 (2001) 3409



(+)-(4*S*)-*N*-(2-Propenyl)-4-(2-furyl)-2(*Z*)-butenyl amine

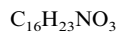
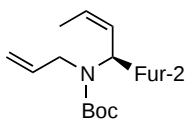
E.e. >98%

$[\alpha]_D^{25} +22.6$ (c 1.5, $CHCl_3$)

Source of chirality: asymmetric synthesis

Ramaiah Kumareswaran and Alfred Hassner*

Tetrahedron: Asymmetry 12 (2001) 3409



(-)-(4*S*)-*N*-Boc-*N*-(2-propenyl)-4-(2-furyl)-2(*Z*)-butenyl amine

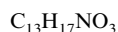
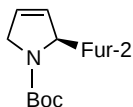
E.e. >98%

$[\alpha]_D^{25} -25$ (c 1, $CHCl_3$)

Source of chirality: asymmetric synthesis

Ramaiah Kumareswaran and Alfred Hassner*

Tetrahedron: Asymmetry 12 (2001) 3409



(-)-(2*S*)-*N*-Boc-2-(2-furyl)-3,4-dehydropyrrolidine

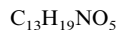
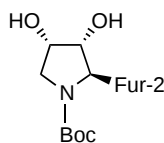
E.e. >98%

$[\alpha]_D^{25} -101.8$ (c 1.6, $CHCl_3$)

Source of chirality: asymmetric synthesis

Ramaiah Kumareswaran and Alfred Hassner*

Tetrahedron: Asymmetry 12 (2001) 3409



(-)-(2*R*,3*R*,4*S*)-*N*-Boc-2-(2-furyl)pyrrolidine-3,4-diol

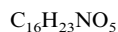
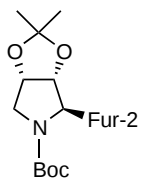
E.e. >98%

$[\alpha]_D^{25} -15.7$ (c 1.15, $CHCl_3$)

Source of chirality: asymmetric synthesis

Ramaiah Kumareswaran and Alfred Hassner*

Tetrahedron: Asymmetry 12 (2001) 3409



(-)-(2*R*,3*R*,4*S*)-*N*-Boc-2-(2-furyl)-3,4-isopropylidenedioxypyrrolidine

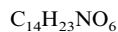
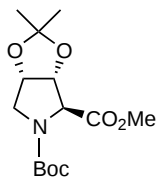
E.e. >98%

$[\alpha]_D^{25} -41.3$ (c 0.8, $CHCl_3$)

Source of chirality: asymmetric synthesis

Ramaiah Kumareswaran and Alfred Hassner*

Tetrahedron: Asymmetry 12 (2001) 3409

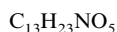
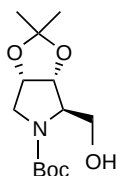


(-)-(2*S*,3*R*,4*S*)-*N*-Boc-2-carbomethoxy-3,4-isopropylidenedioxypyrrolidine

E.e. >98%

$[\alpha]_D^{25} -9.4$ (c 0.85, $CHCl_3$)

Source of chirality: asymmetric synthesis



(2*R*,3*R*,4*S*)-*N*-Boc-2-hydroxymethyl-3,4-isopropylidenedioxypyrrolidine

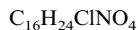
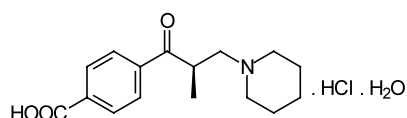
E.e. >98%

$[\alpha]_D^{25} -19.4$ (c 1.77, $CHCl_3$)

Source of chirality: asymmetric synthesis

József Bálint, Gabriella Egri,* Imre Markovits, Mátyás Czugler, Katalin Marthi, Ádám Demeter, Krisztina Temesvári-Takács and Elemér Fogassy

Tetrahedron: Asymmetry 12 (2001) 3417



1-(4'-Carboxyphenyl)-2-methyl-3-(piperidine-1-yl)-propane-1-one·HCl·H₂O

E.e. >98% [by NMR of the next compound in the reaction sequence]

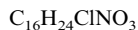
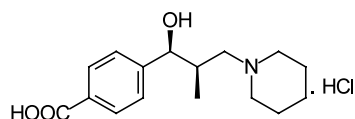
$[\alpha]_D = -43.3$ (c 1, methanol)

Source of chirality: homochiral starting material

Absolute configuration: *R* (known starting material)

József Bálint, Gabriella Egri,* Imre Markovits, Mátyás Czugler, Katalin Marthi, Ádám Demeter, Krisztina Temesvári-Takács and Elemér Fogassy

Tetrahedron: Asymmetry 12 (2001) 3417



1-(4'-Carboxyphenyl)-2-methyl-3-(piperidine-1-yl)-propane-1-ol·HCl

E.e. >98% [by ¹H NMR with chiral complexing agent]

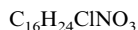
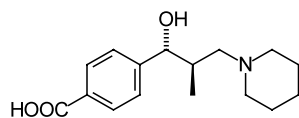
$[\alpha]_D = -16.2$ (c 1, methanol)

Source of chirality: homochiral starting material

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

József Bálint, Gabriella Egri,* Imre Markovits, Mátyás Czugler, Katalin Marthi, Ádám Demeter, Krisztina Temesvári-Takács and Elemér Fogassy

Tetrahedron: Asymmetry 12 (2001) 3417



1-(4'-Carboxyphenyl)-2-methyl-3-(piperidine-1-yl)-propane-1-ol·HCl

E.e. >98% [by ¹H NMR with chiral complexing agent]

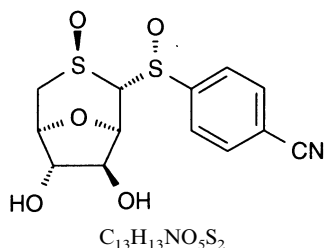
$[\alpha]_D = +24.6$ (c 1, methanol)

Source of chirality: homochiral starting material

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

Éva Bozó, Ádám Demeter, Attila Rill and János Kuszmann*

Tetrahedron: Asymmetry 12 (2001) 3423



4-Cyanophenyl 2,5-anhydro-1,6-dithio- α -D-glucoseptanoside (1*R*)-*S*-oxide (6*R*)-*S*-oxide

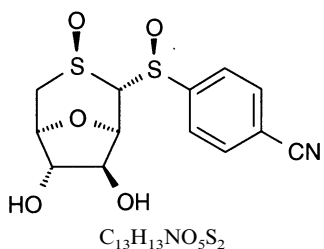
Ee = 100%

$[\alpha]_D^{20} = -114$ (*c* 0.39, pyridine)

Source of chirality: α -D-glucoseptanoside

Éva Bozó, Ádám Demeter, Attila Rill and János Kuszmann*

Tetrahedron: Asymmetry 12 (2001) 3423



4-Cyanophenyl 2,5-anhydro-1,6-dithio- α -D-glucoseptanoside (1*S*)-*S*-oxide (6*R*)-*S*-oxide

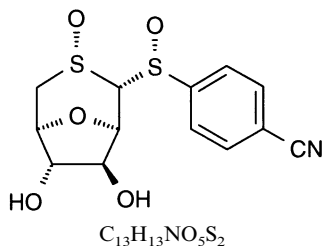
Ee = 100%

$[\alpha]_D^{20} = +125$ (*c* 0.26, pyridine)

Source of chirality: α -D-glucoseptanoside

Éva Bozó, Ádám Demeter, Attila Rill and János Kuszmann*

Tetrahedron: Asymmetry 12 (2001) 3423



4-Cyanophenyl 2,5-anhydro-1,6-dithio- α -D-glucoseptanoside (1*R*)-*S*-oxide (6*S*)-*S*-oxide

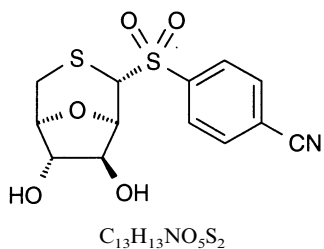
Ee = 100%

$[\alpha]_D^{20} = -7$ (*c* 0.5, pyridine)

Source of chirality: α -D-glucoseptanoside

Éva Bozó, Ádám Demeter, Attila Rill and János Kuszmann*

Tetrahedron: Asymmetry 12 (2001) 3423



4-Cyanophenyl 2,5-anhydro-1,6-dithio- α -D-glucoseptanoside 1-*S*-dioxide

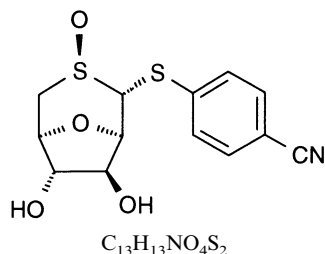
Ee = 100%

$[\alpha]_D^{20} = +98.5$ (*c* 0.26, MeOH)

Source of chirality: α -D-glucoseptanoside

Éva Bozó, Ádám Demeter, Attila Rill and János Kuszmann*

Tetrahedron: Asymmetry 12 (2001) 3423



4-Cyanophenyl 2,5-anhydro-1,6-dithio- α -D-glucoseptanoside (6*R*)-*S*-oxide

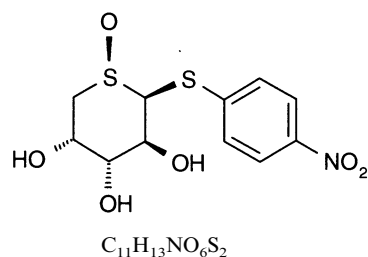
Ee = 100%

$[\alpha]_D^{20} = +143$ (*c* 0.5, MeOH)

Source of chirality: α -D-glucoseptanoside

Éva Bozó, Ádám Demeter, Attila Rill and János Kuszmann*

Tetrahedron: Asymmetry 12 (2001) 3423



4-Nitrophenyl 1,5-dithio- β -D-arabinopyranoside (5*R*)-*S*-oxide

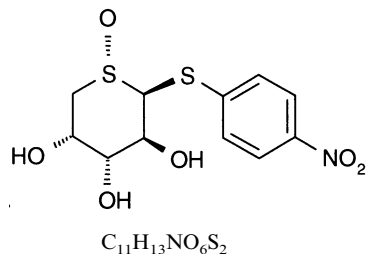
Ee = 100%

$[\alpha]_D^{20} = -339$ (*c* 0.5, pyridine)

Source of chirality: β -D-arabinopyranoside

Éva Bozó, Ádám Demeter, Attila Rill and János Kuszmann*

Tetrahedron: Asymmetry 12 (2001) 3423



4-Nitrophenyl 1,5-dithio- β -D-arabinopyranoside (5*S*)-*S*-oxide

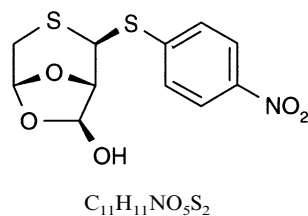
Ee = 100%

$[\alpha]_D^{20} = +131$ (*c* 0.5, MeOH)

Source of chirality: β -D-arabinopyranoside

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Tetrahedron: Asymmetry 12 (2001) 3423



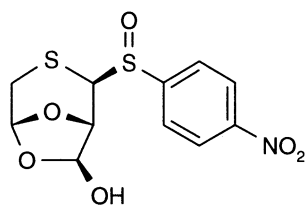
(1*S*,2*S*,5*R*,7*S*)-7-Hydroxy-2-(4-nitrophenylthio)-6,8-dioxo-3-thia-bicyclo[3,21]octane

Ee = 100%

$[\alpha]_D^{20} = -312$ (*c* 1.0, MeOH)

Source of chirality: β -D-arabinopyranoside

Absolute configuration: (1*S*,2*S*,5*R*,7*S*)



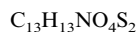
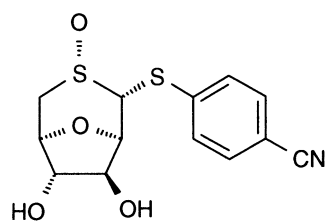
(1S,2S,5R,7S)-7-Hydroxy-2-(4-nitrophenylsulfinyl)-6,8-dioxo-3-thia-bicyclo[3,21]octane

Ee = 100%

$[\alpha]_D^{20} = -78$ (c 0.5, MeOH)

Source of chirality: β -D-arabinopyranoside

Absolute configuration: (1S,2S,5R,7S)

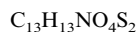
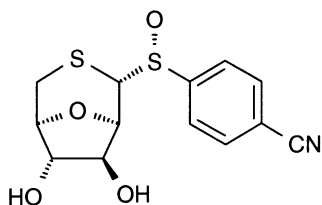


4-Cyanophenyl 2,5-anhydro-1,6-dithio- α -D-glucoseptanoside (6S)-S-oxide

Ee = 100%

$[\alpha]_D^{20} = +468$ (c 0.3, pyridine)

Source of chirality: α -D-glucoseptanoside

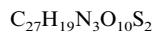
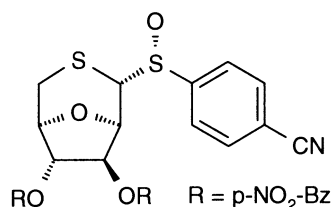


4-Cyanophenyl 2,5-anhydro-1,6-dithio- α -D-glucoseptanoside (1R)-S-oxide

Ee = 100%

$[\alpha]_D^{20} = +141$ (c 0.5, MeOH)

Source of chirality: α -D-glucoseptanoside



4-Cyanophenyl 2,5-anhydro-3,4-di-O-(4-nitrobenzoyl)-1,6-dithio- α -D-glucoseptanoside (1R)-S-oxide

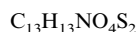
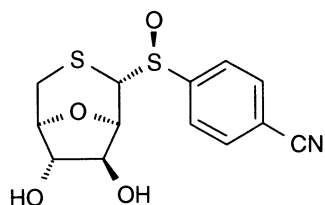
Ee = 100%

$[\alpha]_D^{20} = -45$ (c 1.0, $CHCl_3$)

Source of chirality: α -D-glucoseptanoside

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Tetrahedron: Asymmetry 12 (2001) 3423



4-Cyanophenyl 2,5-anhydro-1,6-dithio- α -D-glucoseptanoside (1*S*)-*S*-oxide

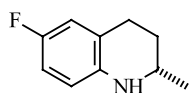
Ee = 100%

$[\alpha]_{\text{D}}^{20} = +311$ (*c* 0.35, MeOH)

Source of chirality: α -D-glucoseptanoside

József Bálint, Gabriella Egri,* Violetta Kiss, Antal Gajáry,
Zoltán Juvancz and Elemér Fogassy

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6-Fluoro-2-methyl-1,2,3,4-tetrahydroquinoline

E.e. = 99.2% (by chiral GC)

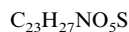
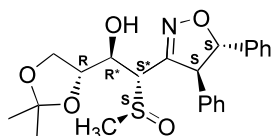
$[\alpha]_{\text{D}} = -69.5$ (*c* = 1, ethanol)

Source of chirality: resolution

Absolute configuration: *S* (known from former publications)

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(*S*_s,4*S*,5*S*,1'*S**,2'*R**,3'*R*)-4,5-Diphenyl-3-(2'-hydroxy-3',4'-isopropylidenedioxy-1'-methylsulfinyl)isoxazoline

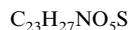
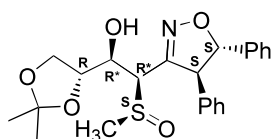
$[\alpha]_{\text{D}}^{20} = +251.0$ (*c* 0.40, CHCl₃)

Source of chirality: (*S*)-methylsulfinate of 1,2-5,6-di-*O*-isopropylidene-D-glucofuranose and 2,3-*O*-isopropylidene-D-glyceraldehyde

Absolute configuration: *S*_s,4*S*,5*S*,1'*S**,2'*R**,3'*R*

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(*S*_s,4*S*,5*S*,1'*R**,2'*R**,3'*R*)-4,5-Diphenyl-3-(2'-hydroxy-3',4'-isopropylidenedioxy-1'-methylsulfinyl)isoxazoline

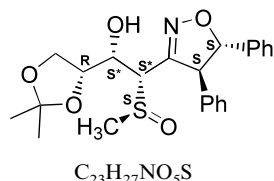
$[\alpha]_{\text{D}}^{20} = +214.0$ (*c* 1.00, CHCl₃)

Source of chirality: (*S*)-methylsulfinate of 1,2-5,6-di-*O*-isopropylidene-D-glucofuranose and 2,3-*O*-isopropylidene-D-glyceraldehyde

Absolute configuration: *S*_s,4*S*,5*S*,1'*R**,2'*R**,3'*R*

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($S_S,4S,5S,1'S^*,2'S^*,3'R$)-4,5-Diphenyl-3-(2'-hydroxy-3',4'-isopropylidenedioxy-1'-methylsulfinyl)isoxazoline

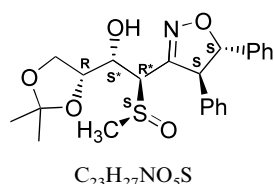
$[\alpha]_D^{20} = +251.7$ (c 0.90, $CHCl_3$)

Source of chirality: (*S*)-methylsulfinate of 1,2-5,6-di-*O*-isopropylidene-D-glucofuranose and 2,3-*O*-isopropylidene-D-glyceraldehyde

Absolute configuration: $S_S,4S,5S,1'S^*,2'S^*,3'R$

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($S_S,4S,5S,1'R^*,2'S^*,3'R$)-4,5-Diphenyl-3-(2'-hydroxy-3',4'-isopropylidenedioxy-1'-methylsulfinyl)isoxazoline

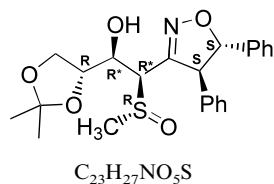
$[\alpha]_D^{20} = -265.0$ (c 0.20, $CHCl_3$)

Source of chirality: (*S*)-methylsulfinate of 1,2-5,6-di-*O*-isopropylidene-D-glucofuranose and 2,3-*O*-isopropylidene-D-glyceraldehyde

Absolute configuration: $S_S,4S,5S,1'R^*,2'S^*,3'R$

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($R_S,4S,5S,1'R^*2'R^*,3'R$)-4,5-Diphenyl-3-(2'-hydroxy-3',4'-isopropylidenedioxy-1'-methylsulfinyl)isoxazoline

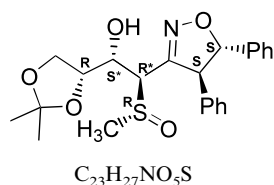
$[\alpha]_D^{20} = +220.1$ (c 1.01, $CHCl_3$)

Source of chirality: (*R*)-methylsulfinate of 1,2-5,6-di-*O*-isopropylidene-D-glucofuranose and 2,3-*O*-isopropylidene-D-glyceraldehyde

Absolute configuration: $R_S,4S,5S,1'R^*,2'R^*,3'R$

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($R_S,4S,5S,1'R^*,2'S^*,3'R$)-4,5-Diphenyl-3-(2'-hydroxy-3',4'-isopropylidenedioxy-1'-methylsulfinyl)isoxazoline

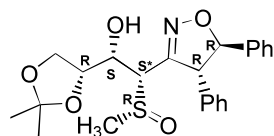
$[\alpha]_D^{20} = +251.0$ (c 0.50, $CHCl_3$)

Source of chirality: (*R*)-methylsulfinate of 1,2-5,6-di-*O*-isopropylidene-D-glucofuranose and 2,3-*O*-isopropylidene-D-glyceraldehyde

Absolute configuration: $R_S,4S,5S,1'R^*,2'S^*,3'R$

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$C_{23}H_{27}NO_5S$

($R_S,4R,5R,1'S^*,2'S,3'R$)-4,5-Diphenyl-3-(2'-hydroxy-3',4'-isopropylidenedioxy-1'-methylsulfinyl)isoxazoline

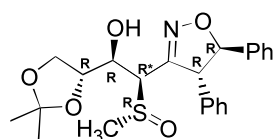
$[\alpha]_D^{20} = -177.3$ (c 0.64, $CHCl_3$)

Source of chirality: (R)-methylsulfinate of 1,2-5,6-di- O -isopropylidene-D-glucofuranose and 2,3- O -isopropylidene-D-glyceraldehyde

Absolute configuration: $R_S,4R,5R,1'S^*,2'S,3'R$

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$C_{23}H_{27}NO_5S$

($R_S,4R,5R,1'R^*,2'R,3'R$)-4,5-Diphenyl-3-(2'-hydroxy-3',4'-isopropylidenedioxy-1'-methylsulfinyl)isoxazoline

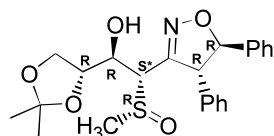
$[\alpha]_D^{20} = -232.0$ (c 1.00, $CHCl_3$)

Source of chirality: (R)-methylsulfinate of 1,2-5,6-di- O -isopropylidene-D-glucofuranose and 2,3- O -isopropylidene-D-glyceraldehyde

Absolute configuration: $R_S,4R,5R,1'R^*,2'R,3'R$

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$C_{23}H_{27}NO_5S$

($R_S,4R,5R,1'S^*,2'R,3'R$)-4,5-Diphenyl-3-(2'-hydroxy-3',4'-isopropylidenedioxy-1'-methylsulfinyl)isoxazoline

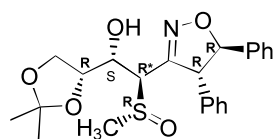
$[\alpha]_D^{20} = -227.2$ (c 1.00, $CHCl_3$)

Source of chirality: (S)-methylsulfinate of 1,2-5,6-di- O -isopropylidene-D-glucofuranose and 2,3- O -isopropylidene-D-glyceraldehyde

Absolute configuration: $R_S,4R,5R,1'S^*,2'R,3'R$

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$C_{23}H_{27}NO_5S$

($R_S,4R,5R,1'R^*,2'S,3'R$)-4,5-Diphenyl-3-(2'-hydroxy-3',4'-isopropylidenedioxy-1'-methylsulfinyl)isoxazoline

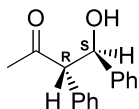
$[\alpha]_D^{20} = -218.0$ (c 0.50, $CHCl_3$)

Source of chirality: (R)-methylsulfinate of 1,2-5,6-di- O -isopropylidene-D-glucofuranose and 2,3- O -isopropylidene-D-glyceraldehyde

Absolute configuration: $R_S,4R,5R,1'R^*,2'S,3'R$

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(3*R*,4*S*)-3,4-Diphenyl-4-hydroxy-2-butanone

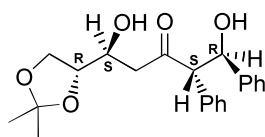
$[\alpha]_D^{20} = +283.0$ (*c* 0.80, $CHCl_3$)

Source of chirality: (*S*)-methylsulfinate of 1,2-5,6-di-*O*-isopropyliden-D-glucofuranose

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

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(1*R*,2*S*,5*S*,6*R*)-1,2-Diphenyl-1,5-dihydroxy-6,7-isopropylidenedioxy-3-heptanone

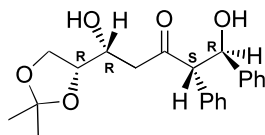
$[\alpha]_D^{20} = -254.4$ (*c* 0.22, $CHCl_3$)

Source of chirality: (*S*)-methylsulfinate of 1,2-5,6-di-*O*-isopropylidene-D-glucofuranose and 2,3-*O*-isopropylidene-D-glyceraldehyde

Absolute configuration: 1*R*,2*S*,5*S*,6*R*

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(1*R*,2*S*,5*R*,6*R*)-1,2-Diphenyl-1,5-dihydroxy-6,7-isopropylidenedioxy-3-heptanone

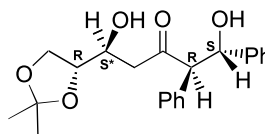
$[\alpha]_D^{20} = -188.0$ (*c* 0.14, $CHCl_3$)

Source of chirality: (*S*)-methylsulfinate of 1,2-5,6-di-*O*-isopropylidene-D-glucofuranose and 2,3-*O*-isopropylidene-D-glyceraldehyde

Absolute configuration: 1*R*,2*S*,5*R*,6*R*

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(1*S*,2*R*,5*S**,6*R*)-1,2-Diphenyl-1,5-dihydroxy-6,7-isopropylidenedioxy-3-heptanone

$[\alpha]_D^{20} = +160.3$ (*c* 0.34, $CHCl_3$)

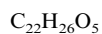
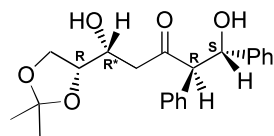
Source of chirality: (*S*)-methylsulfinate of 1,2-5,6-di-*O*-isopropyliden-D-glucofuranose and 2,3-*O*-isopropyliden-D-glyceraldehyde

Absolute configuration: 1*S*,2*R*,5*S**,6*R*

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(1*S*,2*R*,5*R**,6*R*)-1,2-Diphenyl-1,5-dihydroxy-6,7-isopropylidenedioxy-3-heptanone

$[\alpha]_D^{20} = +222.1$ (*c* 0.29, $CHCl_3$)

Source of chirality: (*S*)-methylsulfinat of 1,2-5,6-di-*O*-isopropylidene-D-glucofuranose and 2,3-*O*-isopropylidene-D-glyceraldehyde

Absolute configuration: 1*S*,2*R*,5*R**,6*R*