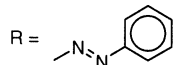
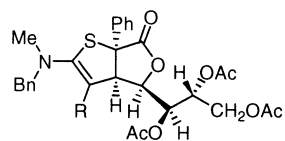


Martín Avalos, Reyes Babiano, Pedro Cintas, Fernando R. Clemente,
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Tetrahedron: Asymmetry 12 (2001) 2261



$C_{35}H_{35}N_3O_8S$

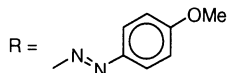
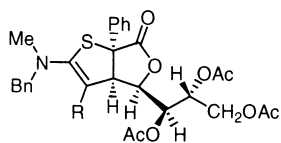
(3*aR*,4*R*,6*aS*)-4-(1',2',3'-Tri-*O*-acetyl-D-*erythro*-tritol-1-yl)-2-(*N*-methyl)benzylamino-6*a*-phenyl-3-[(1*E*)-phenylazo]-3*aH*,4*H*,6*aH*-thieno[2,3-*c*]furan-6-one

$[\alpha]_{578} = -1442.4$ (*c* 0.7, $CHCl_3$)

Source of chirality: chiral precursor

Martín Avalos, Reyes Babiano, Pedro Cintas, Fernando R. Clemente,
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Mark E. Light and Juan C. Palacios

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$C_{36}H_{37}N_3O_9S$

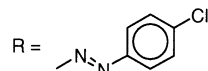
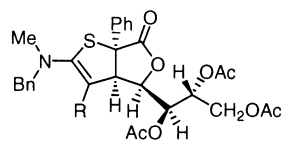
(3*aR*,4*R*,6*aS*)-4-(1',2',3'-Tri-*O*-acetyl-D-*erythro*-tritol-1-yl)-3-[(1*E*)-(4-methoxyphenyl)azo]-2-(*N*-methyl)benzylamino-6*a*-phenyl-3*aH*,4*H*,6*aH*-thieno[2,3-*c*]furan-6-one

$[\alpha]_{578} = -1058.9$ (*c* 0.9, $CHCl_3$)

Source of chirality: chiral precursor

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$C_{35}H_{34}ClN_3O_8S$

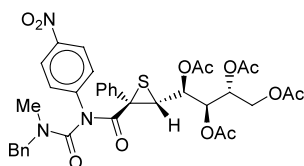
(3*aR*,4*R*,6*aS*)-4-(1',2',3'-Tri-*O*-acetyl-D-*erythro*-tritol-1-yl)-3-[(1*E*)-(4-chlorophenyl)azo]-2-(*N*-methyl)benzylamino-6*a*-phenyl-3*aH*,4*H*,6*aH*-thieno[2,3-*c*]furan-6-one

$[\alpha]_{578} = -1365.4$ (*c* 1.1, $CHCl_3$)

Source of chirality: chiral precursor

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Tetrahedron: Asymmetry 12 (2001) 2265



$C_{36}H_{37}N_3O_{12}S$

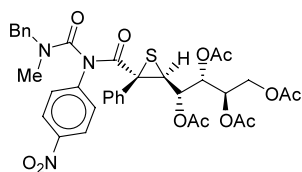
(2*R*,3*R*)-3-(Tetra-*O*-acetyl-D-*arabino*-tritol-1'-yl)-2-[4-benzyl-2-(4-nitrophenyl)-1,3-dioxo-2,4-diazapentyl]-2-phenylthiirane

$[\alpha]_D = +165.6$ (*c* 0.4, $CHCl_3$)

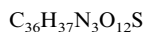
Source of chirality: asymmetric synthesis

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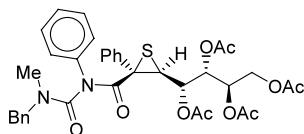
$[\alpha]_D = -170.6$ (*c* 0.8, CHCl₃)
Source of chirality: asymmetric synthesis



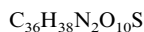
(2*S*,3*S*)-3-(Tetra-*O*-acetyl-*D*-arabino-tetritol-1'-yl)-2-[4-benzyl-2-(4-nitrophenyl)-1,3-dioxo-2,4-diazapentyl]-2-phenylthiirane

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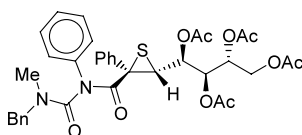
$[\alpha]_D = -176.3$ (*c* 1.0, CHCl₃)
Source of chirality: asymmetric synthesis



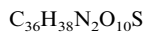
(2*R*,3*S*)-3-(Tetra-*O*-acetyl-*D*-arabino-tetritol-1'-yl)-2-(4-benzyl-1,3-dioxo-2-phenyl-2,4-diazapentyl)-2-phenylthiirane

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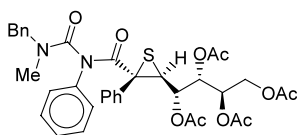
$[\alpha]_D = +140.9$ (*c* 0.5, CHCl₃)
Source of chirality: asymmetric synthesis



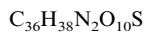
(2*R*,3*R*)-3-(Tetra-*O*-acetyl-*D*-arabino-tetritol-1'-yl)-2-(4-benzyl-1,3-dioxo-2-phenyl-2,4-diazapentyl)-2-phenylthiirane

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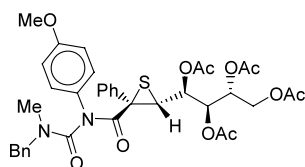
$[\alpha]_D = -162.4$ (*c* 0.2, CHCl₃)
Source of chirality: asymmetric synthesis



(2*S*,3*S*)-3-(Tetra-*O*-acetyl-*D*-arabino-tetritol-1'-yl)-2-(4-benzyl-1,3-dioxo-2-phenyl-2,4-diazapentyl)-2-phenylthiirane

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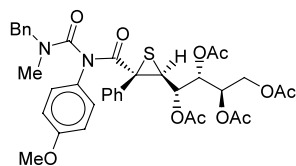
$[\alpha]_D = +110.1$ (*c* 1.2, CHCl₃)
Source of chirality: asymmetric synthesis

C₃₇H₄₀N₂O₁₁S

(2*R*,3*R*)-3-(Tetra-*O*-acetyl-*D*-arabino-tetritol-1'-yl)-2-[4-benzyl-2-(4-methoxyphenyl)-1,3-dioxo-2,4-diazapentyl]-2-phenylthiirane

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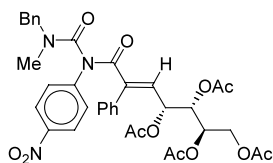
$[\alpha]_D = -88.3$ (*c* 0.4, CHCl₃)
Source of chirality: asymmetric synthesis

C₃₇H₄₀N₂O₁₁S

(2*S*,3*S*)-3-(Tetra-*O*-acetyl-*D*-arabino-tetritol-1'-yl)-2-[4-benzyl-2-(4-methoxyphenyl)-1,3-dioxo-2,4-diazapentyl]-2-phenylthiirane

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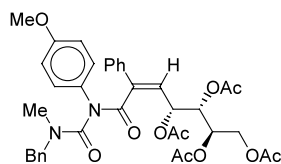
$[\alpha]_D = -18.5$ (*c* 0.1, CHCl₃)
Source of chirality: chiral precursor

C₃₆H₃₇N₃O₁₂

(*E*)-*N*-(*N*'-Benzyl-*N*'-methylcarbamoyl)-*N*-(4-nitrophenyl)-2,3-dideoxy-2-phenyl-tetra-*O*-acetyl-*D*-arabino-hept-2-enamide

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José L. Jiménez, Mark E. Light and Juan C. Palacios*

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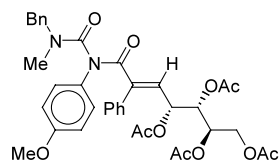
$[\alpha]_D = -167.6$ (*c* 0.3, CHCl₃)
Source of chirality: chiral precursor

C₃₇H₄₀N₂O₁₁

(*Z*)-*N*-(*N*'-Benzyl-*N*'-methylcarbamoyl)-*N*-(4-methoxyphenyl)-2,3-dideoxy-2-phenyl-tetra-*O*-acetyl-*D*-arabino-hept-2-enamide

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Fernando R. Clemente, Ruth Gordillo, Michael B. Hursthouse,
José L. Jiménez, Mark E. Light and Juan C. Palacios*

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$C_{37}H_{40}N_2O_{11}$

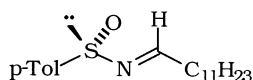
(*E*)-*N*-(*N'*-Benzyl-*N'*-methylcarbamoyl)-*N*-(4-methoxyphenyl)-2,3-dideoxy-2-phenyl-tetra-*O*-acetyl-*D*-arabino-hept-2-enamide

$[\alpha]_D^{25} = +11.2$ (c 0.3, $CHCl_3$)

Source of chirality: chiral precursor

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$C_{19}H_{31}NOS$

(*S*)-(+)-*N*-Dodecylidene-*p*-toluenesulfonamide

E.e. >98%

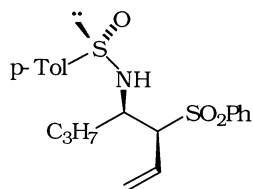
$[\alpha]_D^{25} 176.3$ (c = 1.9, $CHCl_3$)

Source of chirality: chiral starting material

Absolute configuration: (*S*)

Ramaiah Kumareswaran and Alfred Hassner*

Tetrahedron: Asymmetry 12 (2001) 2269



$C_{20}H_{25}NO_3S_2$

(3*S*)-Phenylsulfonyl-(4*R*)-[*N*-(*p*-tolylsulfinyl)amino]hept-1-ene

E.e. >98%

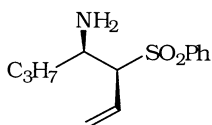
$[\alpha]_D^{25} +141.4$ (c = 1.4, $CHCl_3$)

Source of chirality: asymmetric synthesis

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

Ramaiah Kumareswaran and Alfred Hassner*

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$C_{13}H_{19}NO_2S$

(4*R*)-Amino-(3*S*)-phenylsulfonylhept-1-ene

E.e. >98%

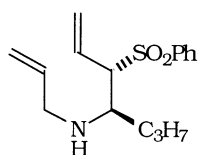
$[\alpha]_D^{25} -73.1$ (c = 1.3, $CHCl_3$)

Source of chirality: asymmetric synthesis

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

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Tetrahedron: Asymmetry 12 (2001) 2269



$C_{16}H_{23}NO_3S$

(4*R*)-*N*-(2-Propenyl)amino-(3*S*)-phenylsulfonylhept-1-ene

E.e. >98%

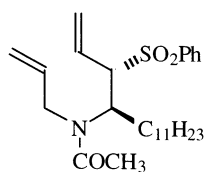
$[\alpha]_D^{25} -48.2$ ($c=0.85$, $CHCl_3$)

Source of chirality: asymmetric synthesis

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

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Tetrahedron: Asymmetry 12 (2001) 2269



$C_{26}H_{41}NO_3S$

(4*R*)-*N*-(2-Propenyl)acetamido-(3*S*)-phenylsulfonylpentadec-1-ene

E.e. = 32%

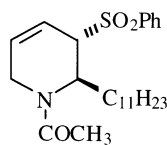
$[\alpha]_D^{25} -3.6$ ($c=3.9$, $CHCl_3$)

Source of chirality: asymmetric synthesis

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

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Tetrahedron: Asymmetry 12 (2001) 2269



$C_{24}H_{37}NO_3S$

N-Acetyl-(5*S*)-phenylsulfonyl-(6*R*)-*n*-undecyl-1,2,5,6-tetrahydropyridine

E.e. = 32%

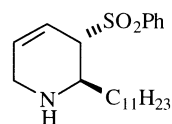
$[\alpha]_D^{25} +52.5$ ($c=1.6$, $CHCl_3$)

Source of chirality: asymmetric synthesis

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

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Tetrahedron: Asymmetry 12 (2001) 2269



$C_{22}H_{35}NO_2S$

(5*S*)-Phenylsulfonyl-(6*R*)-*n*-undecyl-1,2,5,6-tetrahydropyridine

E.e. = 32%

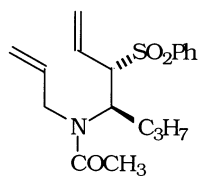
$[\alpha]_D^{25} +38$ ($c=1.05$, $CHCl_3$)

Source of chirality: asymmetric synthesis

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

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$C_{18}H_{25}NO_3S$

(4*R*)-*N*-(2-Propenyl)-*N*-acetylamino-(3*S*)-phenylsulfonylhept-1-ene

E.e. >98%

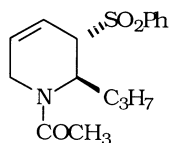
$[\alpha]_D^{25} -30$ ($c=2$, $CHCl_3$)

Source of chirality: asymmetric synthesis

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

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Tetrahedron: Asymmetry 12 (2001) 2269



$C_{16}H_{26}NO_3S$

N-Acetyl-(5*S*)-phenylsulfonyl-(6*R*)-*n*-propyl-1,2,5,6-tetrahydropyridine

E.e. >98%

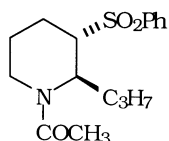
$[\alpha]_D^{25} +196$ ($c=1.2$, $CHCl_3$)

Source of chirality: asymmetric synthesis

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

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$C_{16}H_{23}NO_3S$

N-Acetyl-(2*R*)-*n*-propyl-(3*S*)-phenylsulfonylpiperidine

E.e. >98%

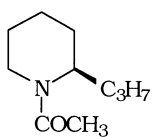
$[\alpha]_D^{25} = -16$ ($c=2.25$, $CHCl_3$)

Source of chirality: asymmetric synthesis

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

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$C_{10}H_{19}NO$

N-Acetyl-(*R*)-coniine

E.e. >99%

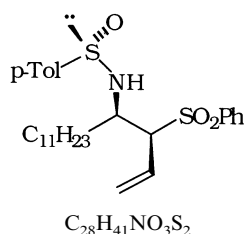
$[\alpha]_D^{25} = -48.6$ ($c=0.72$, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: *R*

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(3*S*)-Phenylsulfonyl-(4*R*)-[*N*-(*p*-tolylsulfinyl)amino]pentadec-1-ene

E.e. = 32%

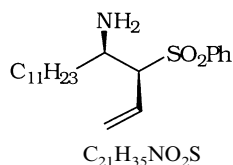
$[\alpha]_D^{25} +108$ ($c=1.5$, $CHCl_3$)

Source of chirality: asymmetric synthesis

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

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(4*R*)-Amino-(3*S*)-phenylsulfonylpentadec-1-ene

E.e. = 32%

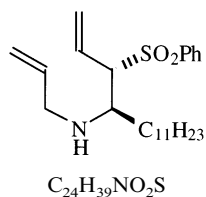
$[\alpha]_D^{25} -15.3$ ($c=1.5$, $CHCl_3$)

Source of chirality: asymmetric synthesis

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

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(4*R*)-*N*-(2-Propenyl)amino-(3*S*)-phenylsulfonylpentadec-1-ene

E.e. = 32%

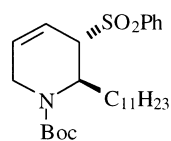
$[\alpha]_D^{25} -15.8$ ($c=1.9$, $CHCl_3$)

Source of chirality: asymmetric synthesis

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

Ramaiah Kumareswaran and Alfred Hassner*

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N-Boc-(5*S*)-phenylsulfonyl-(6*R*)-*n*-undecyl-1,2,5,6-tetrahydropyridine

E.e. = 32%

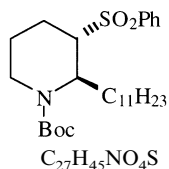
$[\alpha]_D^{25} +29.6$ ($c=2.6$, $CHCl_3$)

Source of chirality: asymmetric synthesis

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

Ramaiah Kumareswaran and Alfred Hassner*

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N-Boc-(2*R*)-*n*-undecyl-(3*S*)-phenylsulfonylpiperidine

E.e. = 32%

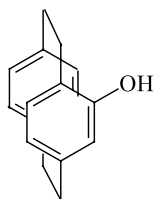
$[\alpha]_D^{25} = -6.7$ (*c* = 0.75, $CHCl_3$)

Source of chirality: asymmetric synthesis

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

Antonio Cipiciani,* Francesca Bellezza, Francesco Fringuelli and Maria Grazia Silvestrini

Tetrahedron: Asymmetry 12 (2001) 2277



(+)-(*R*)-4-Hydroxy-[2,2]-paracyclophane

E.e. = 98%

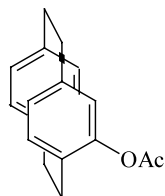
$[\alpha]_D^{20} = +8.1$ (*c* 1.0, $CHCl_3$)

Source of chirality: enzymatic resolution

Absolute configuration: *R*

Antonio Cipiciani,* Francesca Bellezza, Francesco Fringuelli and Maria Grazia Silvestrini

Tetrahedron: Asymmetry 12 (2001) 2277



(+)-(*S*)-4-Acetoxy-[2,2]-paracyclophane

E.e. = 96%

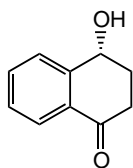
$[\alpha]_D^{20} = +40.3$ (*c* 1.0, $CHCl_3$)

Source of chirality: enzymatic resolution

Absolute configuration: *S*

S. Joly and Mangalam S. Nair*

Tetrahedron: Asymmetry 12 (2001) 2283



$C_{10}H_{10}O_2$

(*R*)-4-Hydroxytetralone

E.e. = 95% (by NMR)

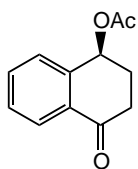
$[\alpha]_D^{27} = -35.5$ (*c* 1.0, $CHCl_3$)

Source of chirality: enzymatic hydrolysis

Absolute configuration: *R*

S. Joly and Mangalam S. Nair*

Tetrahedron: Asymmetry 12 (2001) 2283

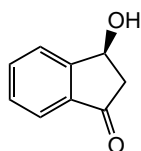


$C_{12}H_{12}O_3$
(*S*)-4-Acetoxytetralone

E.e. >96% (by NMR)
 $[\alpha]_D^{27} = -80.4$ (*c* 1.0, $CHCl_3$)
Source of chirality: enzymatic hydrolysis
Absolute configuration: *S*

S. Joly and Mangalam S. Nair*

Tetrahedron: Asymmetry 12 (2001) 2283

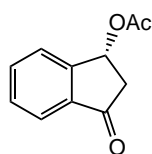


$C_9H_8O_2$
(*S*)-3-Hydroxyindanone

E.e. >96% (by NMR)
 $[\alpha]_D^{27} = +99.5$ (*c* 0.9, $CHCl_3$)
Source of chirality: enzymatic transesterification
Absolute configuration: *S*

S. Joly and Mangalam S. Nair*

Tetrahedron: Asymmetry 12 (2001) 2283

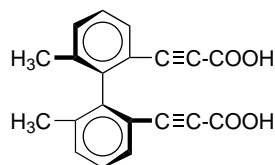


$C_{11}H_{10}O_3$
(*R*)-3-Acetoxyindanone

E.e. = 85% (by NMR)
 $[\alpha]_D^{27} = -8.9$ (*c* 1.2, $CHCl_3$)
Source of chirality: enzymatic transesterification
Absolute configuration: *R*

Miloš Tichý, Petr Holý, Jiří Závada,* Ivana Čiřářová and Jaroslav Podlaha

Tetrahedron: Asymmetry 12 (2001) 2295

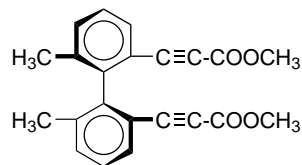


$C_{20}H_{14}O_4$
(*S*)-2,2'-Bis(carboxyethynyl)-6,6'-dimethyl-1,1'-biphenyl

E.e. = 100%
 $[\alpha]_D^{20} = +148.8$ (*c* 0.5, EtOH)
Source of chirality: (*S*)-2,2'-dimethylbiphenyl-6,6'-dicarboxylic acid
Absolute configuration: (*S*)

Miloš Tichý, Petr Holý, Jiří Závada,* Ivana Císařová and Jaroslav Podlaha

Tetrahedron: Asymmetry 12 (2001) 2295



(*S*)-2,2'-Bis(methoxycarbonylethynyl)-6,6'-dimethyl-1,1'-biphenyl

E.e. = 100%

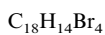
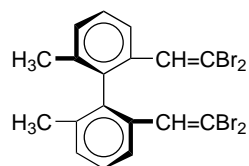
$[\alpha]_D^{20} = +185.4$ (*c* 0.5, MeOH)

Source of chirality: (*S*)-2,2'-dimethylbiphenyl-6,6'-dicarboxylic acid

Absolute configuration: (*S*)

Miloš Tichý, Petr Holý, Jiří Závada,* Ivana Císařová and Jaroslav Podlaha

Tetrahedron: Asymmetry 12 (2001) 2295



(*S*)-2,2'-Bis(2,2-dibromoethenyl)-6,6'-dimethyl-1,1'-biphenyl

E.e. = 100%

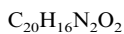
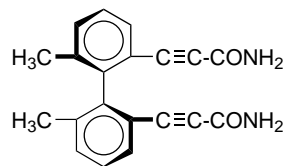
$[\alpha]_D^{20} = +65.1$ (*c* 1.1, EtOH)

Source of chirality: (*S*)-2,2'-dimethylbiphenyl-6,6'-dicarboxylic acid

Absolute configuration: (*S*)

Miloš Tichý, Petr Holý, Jiří Závada,* Ivana Císařová and Jaroslav Podlaha

Tetrahedron: Asymmetry 12 (2001) 2295



(*S*)-2,2'-Bis(carbamoylethynyl)-6,6'-dimethyl-1,1'-biphenyl

E.e. = 100%

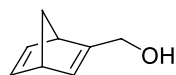
$[\alpha]_D^{20} = +153.5$ (*c* 0.5, MeOH)

Source of chirality: (*S*)-2,2'-dimethylbiphenyl-6,6'-dicarboxylic acid

Absolute configuration: (*S*)

Cihangir Tanyeli,* Gamze Çelikel and İdris Mecidoğlu Akhmedov

Tetrahedron: Asymmetry 12 (2001) 2305



(1*R*,4*S*)-2-Hydroxymethylbicyclo[2.2.1]hepta-2,5-diene

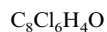
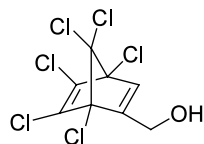
$[\alpha]_D^{20} = -1.5$ (*c* = 0.83, CHCl₃)

Source of chirality: enzymatic resolution

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

Cihangir Tanyeli,* Gamze Çelikel and İdris Mecidoğlu Akhmedov

Tetrahedron: Asymmetry 12 (2001) 2305



(1*S*,4*R*)-2-Hydroxymethyl-1,4,5,6,7,7-hexachlorobicyclo[2.2.1]hepta-2,5-diene

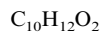
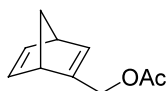
$[\alpha]_D^{20} = -7.3$ ($c = 1.66$, $CHCl_3$)

Source of chirality: enzymatic resolution

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

Cihangir Tanyeli,* Gamze Çelikel and İdris Mecidoğlu Akhmedov

Tetrahedron: Asymmetry 12 (2001) 2305



(1*S*,4*R*)-2-Acetoxyethylbicyclo[2.2.1]hepta-2,5-diene

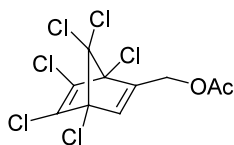
$[\alpha]_D^{20} = -2.4$ ($c = 0.66$, $CHCl_3$)

Source of chirality: enzymatic resolution

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

Cihangir Tanyeli,* Gamze Çelikel and İdris Mecidoğlu Akhmedov

Tetrahedron: Asymmetry 12 (2001) 2305



(1*R*,4*S*)-2-Acetoxyethyl-1,4,5,6,7,7-hexachlorobicyclo[2.2.1]hepta-2,5-diene

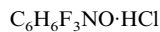
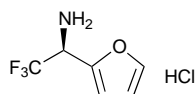
$[\alpha]_D^{20} = +4.1$ ($c = 1.33$, $CHCl_3$)

Source of chirality: enzymatic resolution

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

Ayhan S. Demir,* Özge Sesenoglu and Zuhale Gerçek-Arkin

Tetrahedron: Asymmetry 12 (2001) 2309



(*S*)-2,2,2-Trifluoro-1-furan-2-yl-ethylamine hydrochloride

E.e. = 88%

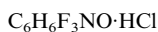
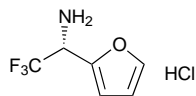
$[\alpha]_D^{25} = 5.5$ ($c = 2$, $MeOH$)

Source of chirality: enantioselective reduction

Absolute configuration: (*S*)

Ayhan S. Demir,* Özge Sesenoglu and Zuhul Gerçek-Arkin

Tetrahedron: Asymmetry 12 (2001) 2309



(*R*)-2,2,2-Trifluoro-1-furan-2-yl-ethylamine hydrochloride

E.e. = 86%

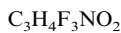
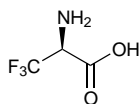
$[\alpha]_D^{25} -5.35$ (*c* 2, MeOH)

Source of chirality: enantioselective reduction

Absolute configuration: (*R*)

Ayhan S. Demir,* Özge Sesenoglu and Zuhul Gerçek-Arkin

Tetrahedron: Asymmetry 12 (2001) 2309



(*S*)-3,3,3-Trifluoroalanine

E.e. = 88%

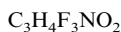
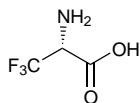
$[\alpha]_D^{25} -13.65$ (*c* 1, MeOH)

Source of chirality: enantioselective reduction

Absolute configuration: (*S*)

Ayhan S. Demir,* Özge Sesenoglu and Zuhul Gerçek-Arkin

Tetrahedron: Asymmetry 12 (2001) 2309



(*R*)-3,3,3-Trifluoroalanine

E.e. = 86%

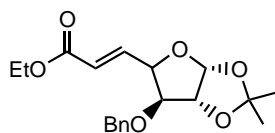
$[\alpha]_D^{25} 13.3$ (*c* 1, MeOH)

Source of chirality: enantioselective reduction

Absolute configuration: (*R*)

S. Chandrasekhar,* T. Ramachandar and B. Venkateswara Rao

Tetrahedron: Asymmetry 12 (2001) 2315



Ethyl 5,6-dideoxy-1,2-*O*-isopropylidene-3-*O*-benzyl- α -D-xyllo-hept-5-enofuranuronoate

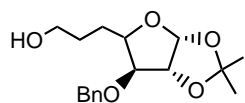
$[\alpha]_D = -27.2$ (*c* = 1, $CHCl_3$)

Source of chirality: D-glucose

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

S. Chandrasekhar,* T. Ramachandar and B. Venkateswara Rao

Tetrahedron: Asymmetry 12 (2001) 2315



$C_{17}H_{24}O_5$

5,6-Dideoxy-3-O-benzyl-1,2-O-isopropylidene- α -D-xylo-heptofuranose

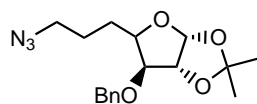
$[\alpha]_D = -15.2$ ($c = 1$, $CHCl_3$)

Source of chirality: D-glucose

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

S. Chandrasekhar,* T. Ramachandar and B. Venkateswara Rao

Tetrahedron: Asymmetry 12 (2001) 2315



$C_{17}H_{23}N_3O_4$

7-Azido-3-O-benzyl-1,2-O-isopropylidene-5,6,7-trideoxy- α -D-xylo-heptofuranose

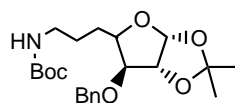
$[\alpha]_D = -49.1$ ($c = 1$, $CHCl_3$)

Source of chirality: D-glucose

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

S. Chandrasekhar,* T. Ramachandar and B. Venkateswara Rao

Tetrahedron: Asymmetry 12 (2001) 2315



$C_{22}H_{33}NO_6$

3-O-Benzyl-7-tert-butoxycarbonylamino- α -1,2-O-isopropylidene-5,6,7-trideoxy- α -D-xylo-heptofuranose

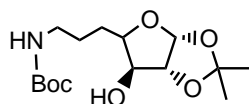
$[\alpha]_D = -32.2$ ($c = 1.25$, $CHCl_3$)

Source of chirality: D-glucose

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

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Tetrahedron: Asymmetry 12 (2001) 2315



$C_{15}H_{27}NO_6$

7-tert-Butoxycarbonylamino-1,2-O-isopropylidene-5,6,7-trideoxy- α -D-xylo-heptofuranose

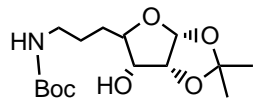
$[\alpha]_D = -9.29$ ($c = 1$, $CHCl_3$)

Source of chirality: D-glucose

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

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Tetrahedron: Asymmetry 12 (2001) 2315



$C_{15}H_{27}NO_6$

7-*tert*-Butoxycarbonylamino-1,2-*O*-isopropylidene-5,6,7-trideoxy- α -D-ribo-heptofuranose

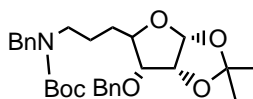
$[\alpha]_D = +10.0$ ($c = 1.1$, $CHCl_3$)

Source of chirality: D-glucose

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

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Tetrahedron: Asymmetry 12 (2001) 2315



$C_{29}H_{39}NO_6$

N-Benzyl-3-*O*-benzyl-7-*tert*-butoxycarbonylamino-1,2-*O*-isopropylidene-5,6,7-trideoxy- α -D-ribo-heptofuranose

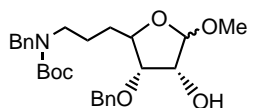
$[\alpha]_D = +48.5$ ($c = 1$, $CHCl_3$)

Source of chirality: D-glucose

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

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Tetrahedron: Asymmetry 12 (2001) 2315



$C_{27}H_{37}NO_6$

Methyl 7-*N*-benzylamino-7-*tert*-butoxycarbonylamino-3-*O*-benzyl-5,6,7-trideoxy- α/β -D-ribo-heptofuranoside

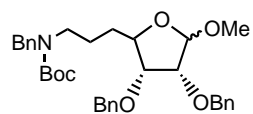
$[\alpha]_D = -10.2$ ($c = 1$, $CHCl_3$)

Source of chirality: D-glucose

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

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Tetrahedron: Asymmetry 12 (2001) 2315



$C_{34}H_{43}NO_6$

Methyl 7-*N*-benzylamino-7-*tert*-butoxycarbonylamino-2,3-di-*O*-benzyl-5,6,7-trideoxy- α/β -D-ribo-heptofuranoside

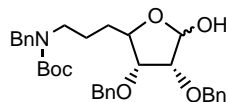
$[\alpha]_D = -12.3$ ($c = 1$, $CHCl_3$)

Source of chirality: D-glucose

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

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Tetrahedron: Asymmetry 12 (2001) 2315



$C_{33}H_{41}NO_6$

7-*N*-Benzylamino-7-*tert*-butoxycarbonylamino-2,3-di-*O*-benzyl-5,6,7-trideoxy- α/β -*D*-ribo-heptofuranose

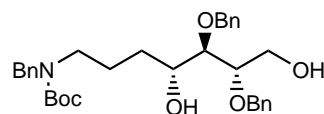
$[\alpha]_D = +25.5$ ($c=1$, $CHCl_3$)

Source of chirality: *D*-glucose

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

S. Chandrasekhar,* T. Ramachandar and B. Venkateswara Rao

Tetrahedron: Asymmetry 12 (2001) 2315



$C_{33}H_{43}NO_6$

1-*N*-Benzyl-*N*-(*tert*-butoxycarbonyl)-5,6-di-benzyloxy-4,7-dihydroxy-(4*R*,5*R*,6*S*)-heptylamine

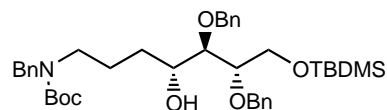
$[\alpha]_D = +16.3$ ($c=1.5$, $CHCl_3$)

Source of chirality: *D*-glucose

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

S. Chandrasekhar,* T. Ramachandar and B. Venkateswara Rao

Tetrahedron: Asymmetry 12 (2001) 2315



$C_{39}H_{57}NO_6Si$

1-*N*-Benzyl-*N*-(*tert*-butoxycarbonyl)-5,6-di-benzyloxy-4-hydroxy-7-(*tert*-butyl dimethylsilyloxy)-(4*R*,5*R*,6*S*)-heptylamine

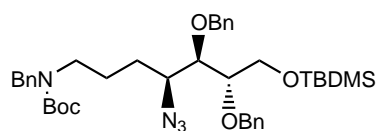
$[\alpha]_D = +10.2$ ($c=0.5$, $CHCl_3$)

Source of chirality: *D*-glucose

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

S. Chandrasekhar,* T. Ramachandar and B. Venkateswara Rao

Tetrahedron: Asymmetry 12 (2001) 2315



$C_{39}H_{56}N_4O_5Si$

1-*N*-Benzyl-*N*-(*tert*-butoxycarbonyl)-4-azido-5,6-di-benzyloxy-7-(*tert*-butyl dimethylsilyloxy)-(4*S*,5*R*,6*S*)-heptylamine

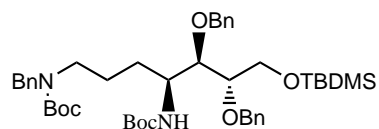
$[\alpha]_D = -6.2$ ($c=0.5$, $CHCl_3$)

Source of chirality: *D*-glucose

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

S. Chandrasekhar,* T. Ramachandar and B. Venkateswara Rao

Tetrahedron: Asymmetry 12 (2001) 2315



$C_{44}H_{66}N_2O_7Si$

1*N*-Benzyl-*N*-(*tert*-butoxycarbonyl)-5,6-di-benzyloxy-7-(*tert*-butyldimethylsilyloxy)-4-(*tert*-butoxycarbonylamino)-(4*S*,5*R*,6*S*)-heptylamine

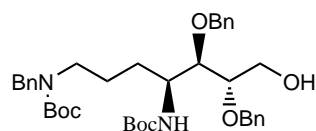
$[\alpha]_D = -3.0$ ($c=0.5$, $CHCl_3$)

Source of chirality: D-glucose

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

S. Chandrasekhar,* T. Ramachandar and B. Venkateswara Rao

Tetrahedron: Asymmetry 12 (2001) 2315



$C_{38}H_{52}N_2O_7$

1*N*-Benzyl-*N*-(*tert*-butoxycarbonyl)-5,6-di-benzyloxy-7-hydroxy-4-(*tert*-butoxycarbonylamino)-(4*S*,5*R*,6*S*)-heptylamine

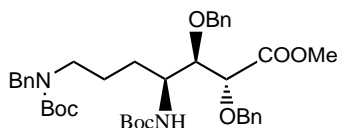
$[\alpha]_D = -14.8$ ($c=0.7$, $CHCl_3$)

Source of chirality: D-glucose

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

S. Chandrasekhar,* T. Ramachandar and B. Venkateswara Rao

Tetrahedron: Asymmetry 12 (2001) 2315



$C_{39}H_{52}N_2O_8$

Methyl 7-*N*-benzyl-*N*-(*tert*-butoxycarbonyl)-2,3-di(benzyloxy)-4-(*tert*-butoxycarbonylamino)-(2*R*,3*R*,4*S*)-heptanoate

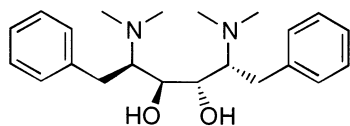
$[\alpha]_D = -17.2$ ($c=0.5$, $CHCl_3$)

Source of chirality: D-glucose

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

Biao Jiang,* Yan Feng and Jian-Feng Hang

Tetrahedron: Asymmetry 12 (2001) 2323



$C_{22}H_{32}N_2O_2$

(2*R*,3*S*,4*S*,5*R*)-*N,N,N',N'*-Tetramethyl-2,5-diamino-3,4-dihydroxy-1,6-diphenylhexane

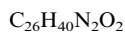
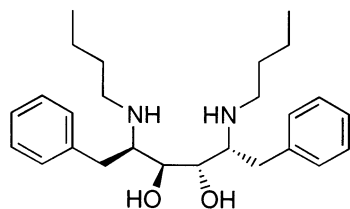
$[\alpha]_D^{20} = -4.2$ ($c=2.4$, $CHCl_3$)

Source of chirality: diastereomerically pure starting material

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

Biao Jiang,* Yan Feng and Jian-Feng Hang

Tetrahedron: Asymmetry 12 (2001) 2323



(2*R*,3*S*,4*S*,5*R*)-*N,N'*-Di-*n*-butyl-2,5-diamino-3,4-dihydroxy-1,6-diphenylhexane

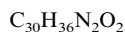
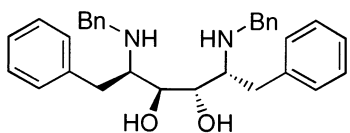
$[\alpha]_D^{20} = -89.3$ ($c = 2.5$, $CHCl_3$)

Source of chirality: diastereomerically pure starting material

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

Biao Jiang,* Yan Feng and Jian-Feng Hang

Tetrahedron: Asymmetry 12 (2001) 2323



(2*R*,3*S*,4*S*,5*R*)-*N,N'*-Dibenzyl-2,5-diamino-3,4-dihydroxy-1,6-diphenylhexane

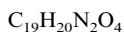
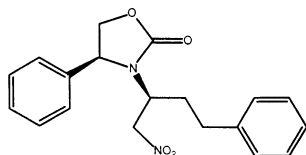
$[\alpha]_D^{20} = -75.3$ ($c = 3.1$, $CHCl_3$)

Source of chirality: diastereomerically pure starting material

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

Marta Feroci, Achille Inesi,* Laura Palombi* and Leucio Rossi

Tetrahedron: Asymmetry 12 (2001) 2331



(4*S*)-Phenyl-3-((*S*)-1'-(nitromethyl)propyl-3'-phenyl)oxazolidin-2-one

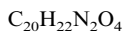
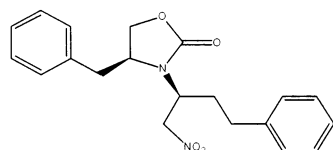
$[\alpha]_D = +62.8$ ($c = 0.70$, $CHCl_3$)

Source of chirality: electrochemically induced conjugate addition

Absolute configuration: (4*S*,1'*S*)

Marta Feroci, Achille Inesi,* Laura Palombi* and Leucio Rossi

Tetrahedron: Asymmetry 12 (2001) 2331



(4*S*)-Benzyl-3-((*S*)-1'-(nitromethyl)propyl-3'-phenyl)oxazolidin-2-one

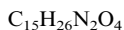
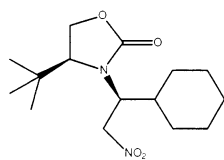
$[\alpha]_D = +29.7$ ($c = 0.875$, $CHCl_3$)

Source of chirality: electrochemically induced conjugate addition

Absolute configuration: (4*S*,1'*S*)

Marta Feroci, Achille Inesi,* Laura Palombi* and Leucio Rossi

Tetrahedron: Asymmetry 12 (2001) 2331



(4S)-tert-Butyl-3-((S)-1'-cyclohexyl-2'-nitroethyl)oxazolidin-2-one

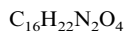
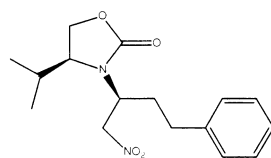
$[\alpha]_D = +52.6$ ($c=0.57$, $CHCl_3$)

Source of chirality: electrochemically induced conjugate addition

Absolute configuration: (4S,1'S)

Marta Feroci, Achille Inesi,* Laura Palombi* and Leucio Rossi

Tetrahedron: Asymmetry 12 (2001) 2331



(4S)-iso-Propyl-3-((S)-1'-(nitromethyl)propyl-3'-phenyl)oxazolidin-2-one

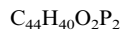
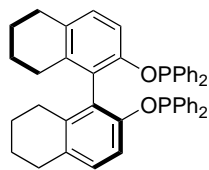
$[\alpha]_D = +45.7$ ($c=0.70$, $CHCl_3$)

Source of chirality: electrochemically induced conjugate addition

Absolute configuration: (4S,1'S)

Fu-Yao Zhang, Wai Him Kwok and Albert S. C. Chan*

Tetrahedron: Asymmetry 12 (2001) 2337



(S)-2,2'-Bis(diphenylphosphino)-5,5',6,6',7,7',8,8'-octahydro-1,1'-binaphthyl

E.e. >99% (from S-BINOL)

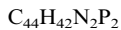
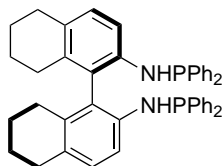
$[\alpha]_D = -82.0$ (c 1.0, THF)

Source of chirality: direct synthesis from (S)-BINOL

Absolute configuration: S

Fu-Yao Zhang, Wai Him Kwok and Albert S. C. Chan*

Tetrahedron: Asymmetry 12 (2001) 2337



(R)-2,2'-Bis(diphenylphosphinoamino)-5,5',6,6',7,7',8,8'-octahydro-1,1'-binaphthyl

E.e. >99% (from R-BINAM)

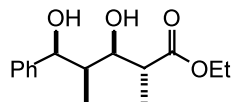
$[\alpha]_D = -47.0$ (c 1.0, CH_2Cl_2)

Source of chirality: direct synthesis from (R)-BINAM

Absolute configuration: R

Syun-ichi Kiyooka,* Kazi A. Shahid, Kazunori Murai, Yong-Nan Li,
Momotoshi Okazaki and Yoshihiro Shuto

Tetrahedron: Asymmetry 12 (2001) 2343



C₁₅H₂₂O₄

Ethyl (2*R*,3*R*,4*R*,5*S*)-3,5-dihydroxy-2,4-dimethyl-5-phenylpentanoate

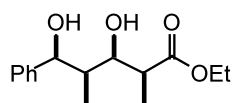
$[\alpha]_D^{22} -5.5$ (*c* 1.83, CHCl₃)

Source of chirality: enantioselective aldol reaction

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

Syun-ichi Kiyooka,* Kazi A. Shahid, Kazunori Murai, Yong-Nan Li,
Momotoshi Okazaki and Yoshihiro Shuto

Tetrahedron: Asymmetry 12 (2001) 2343



C₁₅H₂₂O₄

Ethyl (2*S*,3*R*,4*R*,5*S*)-3,5-dihydroxy-2,4-dimethyl-5-phenylpentanoate

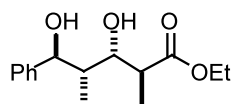
$[\alpha]_D^{22} -8.3$ (*c* 1.08, CHCl₃)

Source of chirality: enantioselective aldol reaction

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

Syun-ichi Kiyooka,* Kazi A. Shahid, Kazunori Murai, Yong-Nan Li,
Momotoshi Okazaki and Yoshihiro Shuto

Tetrahedron: Asymmetry 12 (2001) 2343



C₁₅H₂₂O₄

Ethyl (2*S*,3*S*,4*S*,5*S*)-3,5-dihydroxy-2,4-dimethyl-5-phenylpentanoate

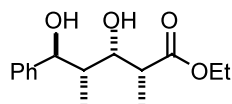
$[\alpha]_D^{22} -24.0$ (*c* 0.25, CHCl₃)

Source of chirality: enantioselective aldol reaction

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

Syun-ichi Kiyooka,* Kazi A. Shahid, Kazunori Murai, Yong-Nan Li,
Momotoshi Okazaki and Yoshihiro Shuto

Tetrahedron: Asymmetry 12 (2001) 2343



C₁₅H₂₂O₄

Ethyl (2*R*,3*S*,4*S*,5*S*)-3,5-dihydroxy-2,4-dimethyl-5-phenylpentanoate

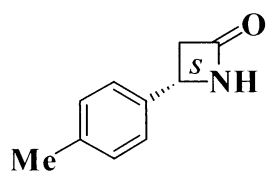
$[\alpha]_D^{22} -50.0$ (*c* 0.50, CHCl₃)

Source of chirality: enantioselective aldol reaction

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

Enikő Forró and Ferenc Fülöp*

Tetrahedron: Asymmetry 12 (2001) 2351



C₁₀H₁₁NO

(*S*)-4-(*p*-Tolyl-2-azetidinone)

E.e. = 99% by GC on CP-Chirasil-Dex CB column

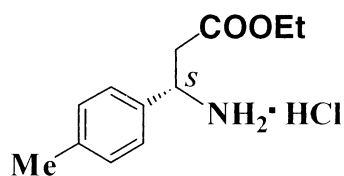
[α]_D²⁵ = -125.5 (*c* = 0.5, EtOH)

Source of chirality: lipase PS-catalyzed butyrylation followed by NH₄OH/MeOH treatment

Absolute configuration: *S*

Enikő Forró and Ferenc Fülöp*

Tetrahedron: Asymmetry 12 (2001) 2351



C₁₂H₁₈ClNO₂

Ethyl (*S*)-3-amino-3-(*p*-tolyl)-propionate hydrochloride

E.e. = 97% by GC on Chirasil-*L*-Val column after derivatization with hexanoic anhydride

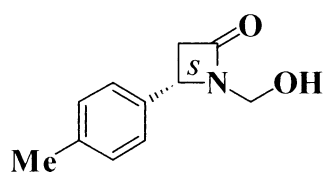
[α]_D²⁵ = +12.9 (*c* = 1.9, EtOH)

Source of chirality: synthesis from its chiral β -lactam precursor

Absolute configuration: *S*

Enikő Forró and Ferenc Fülöp*

Tetrahedron: Asymmetry 12 (2001) 2351



C₁₁H₁₃NO₂

(*S*)-1-Hydroxymethyl-4-(*p*-tolyl)-2-azetidinone

E.e. = 95% by GC on CP-Chirasil-Dex CB column

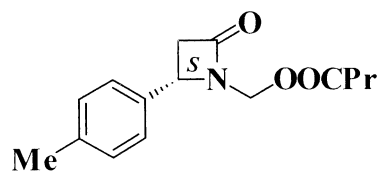
[α]_D²⁵ = -168.0 (*c* = 0.5, EtOH)

Source of chirality: lipase PS-catalyzed butyrylation

Absolute configuration: *S*

Enikő Forró and Ferenc Fülöp*

Tetrahedron: Asymmetry 12 (2001) 2351



C₁₅H₁₉NO₃

(*S*)-1-Butyryloxymethyl-4-(*p*-tolyl)-2-azetidinone

E.e. = 97% by GC on CP-Chirasil-Dex CB column

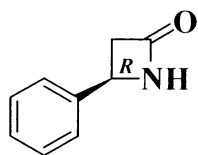
[α]_D²⁵ = -62 (*c* = 1, EtOH)

Source of chirality: lipase PS-catalyzed butyrylation

Absolute configuration: *S*

Enikő Forró and Ferenc Fülöp*

Tetrahedron: Asymmetry 12 (2001) 2351



C₉H₉NO

(*R*)-4-Phenyl-2-azetidinone

E.e. = 97% by GC on CP-Chirasil-Dex CB column

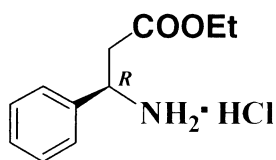
$[\alpha]_D^{25} = +132.4$ ($c = 0.5$, EtOH)

Source of chirality: lipase PS-catalyzed butyrylation followed by NH₄OH/MeOH treatment

Absolute configuration: *R*

Enikő Forró and Ferenc Fülöp*

Tetrahedron: Asymmetry 12 (2001) 2351



C₁₁H₁₆ClNO₂

Ethyl (*R*)-3-amino-3-phenylpropionate hydrochloride

E.e. = 95% by GC on Chirasil-*L*-Val column after derivatization with hexanoic anhydride

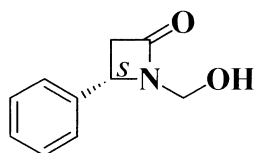
$[\alpha]_D^{25} = -11.4$ ($c = 0.35$, EtOH)

Source of chirality: synthesis from its chiral β-lactam precursor

Absolute configuration: *R*

Enikő Forró and Ferenc Fülöp*

Tetrahedron: Asymmetry 12 (2001) 2351



C₁₀H₁₁NO₂

(*S*)-1-Hydroxymethyl-4-phenyl-2-azetidinone

E.e. = 98% by GC on CP-Chirasil-Dex CB column

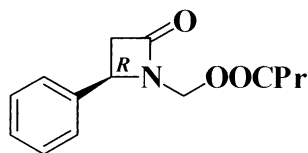
$[\alpha]_D^{25} = -166.7$ ($c = 1$, EtOH)

Source of chirality: lipase PS-catalyzed butyrylation

Absolute configuration: *S*

Enikő Forró and Ferenc Fülöp*

Tetrahedron: Asymmetry 12 (2001) 2351



C₁₄H₁₇NO₃

(*R*)-1-Butyryloxymethyl-4-phenyl-2-azetidinone

E.e. = 97% by GC on CP-Chirasil-Dex CB column

$[\alpha]_D^{25} = +61.4$ ($c = 1$, EtOH)

Source of chirality: lipase PS-catalyzed butyrylation

Absolute configuration: *R*