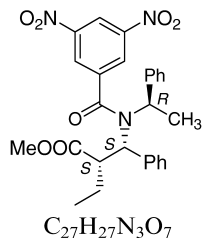


Stereochemistry abstracts

Mariappan Periasamy,* Suriseti Suresh and Subramaniapillai Selva Ganesan

Tetrahedron: Asymmetry 17 (2006) 1323



De >98%

$[\alpha]_D^{25} = +66.4$ (*c* 1, $CHCl_3$)

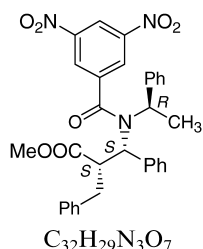
Source of chirality: diastereoselective synthesis

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

(2*S*,3*S*, α *R*)-Methyl 3-(*N*-(3,5-dinitrobenzoyl)-*N*- α -methylbenzyl)amino-3-phenyl-2-ethylpropionate

Mariappan Periasamy,* Suriseti Suresh and Subramaniapillai Selva Ganesan

Tetrahedron: Asymmetry 17 (2006) 1323



De >96%

$[\alpha]_D^{25} = +64.3$ (*c* 1, $CHCl_3$)

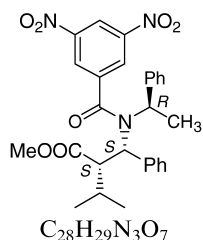
Source of chirality: diastereoselective synthesis

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

(2*S*,3*S*, α *R*)-Methyl 3-(*N*-(3,5-dinitrobenzoyl)-*N*- α -methylbenzyl)amino-3-phenyl-2-benzylpropionate

Mariappan Periasamy,* Suriseti Suresh and Subramaniapillai Selva Ganesan

Tetrahedron: Asymmetry 17 (2006) 1323



De >94%

$[\alpha]_D^{25} = +47.1$ (*c* 1, $CHCl_3$)

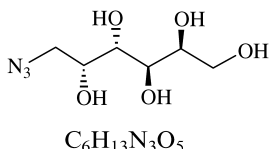
Source of chirality: diastereoselective synthesis

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

(2*S*,3*S*, α *R*)-Methyl 3-(*N*-(3,5-dinitrobenzoyl)-*N*- α -methylbenzyl)amino-3-phenyl-2-isopropylpropionate

Ludovic Chaveriat, Imane Stasik,* Gilles Demailly and Daniel Beaupère

Tetrahedron: Asymmetry 17 (2006) 1349



Ee = 100%

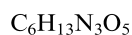
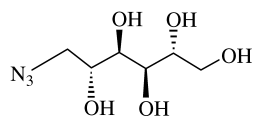
$[\alpha]_D^{24} = -15.4$ (*c* 0.5, DMSO)

Source of chirality: D-galactono-1,4-lactone

6-Azido-6-deoxy-D-galactitol

Ludovic Chaveriat, Imane Stasik,* Gilles Demailly and Daniel Beaupère

Tetrahedron: Asymmetry 17 (2006) 1349



6-Azido-6-deoxy-D-mannitol

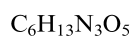
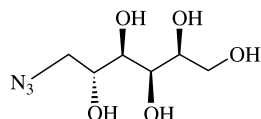
Ee = 100%

$[\alpha]_D^{24} = +27$ (c 1.0, H₂O)

Source of chirality: D-mannono-1,4-lactone

Ludovic Chaveriat, Imane Stasik,* Gilles Demailly and Daniel Beaupère

Tetrahedron: Asymmetry 17 (2006) 1349



6-Azido-6-deoxy-D-glucitol

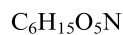
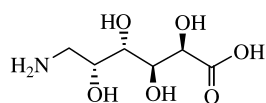
Ee = 100%

$[\alpha]_D^{24} = +12.2$ (c 0.5, H₂O)

Source of chirality: D-glucose

Ludovic Chaveriat, Imane Stasik,* Gilles Demailly and Daniel Beaupère

Tetrahedron: Asymmetry 17 (2006) 1349



6-Amino-6-deoxy-D-galactitol

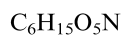
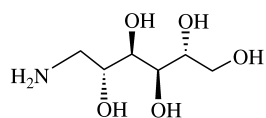
Ee = 100%

$[\alpha]_D^{24} = +22$ (c 0.8, H₂O)

Source of chirality: D-galactono-1,4-lactone

Ludovic Chaveriat, Imane Stasik,* Gilles Demailly and Daniel Beaupère

Tetrahedron: Asymmetry 17 (2006) 1349



6-Amino-6-deoxy-D-mannitol

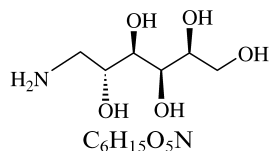
Ee = 100%

$[\alpha]_D^{24} = +28.4$ (c 1.0, H₂O)

Source of chirality: D-mannono-1,4-lactone

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Tetrahedron: Asymmetry 17 (2006) 1349



6-Amino-6-deoxy-D-glucitol

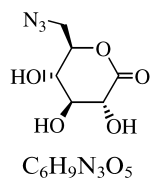
Ee = 100%

$[\alpha]_D^{24} = +4.2$ (c 1.0, H₂O)

Source of chirality: D-glucose

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Tetrahedron: Asymmetry 17 (2006) 1349



6-Azido-6-deoxy-D-glucono-1,5-lactone

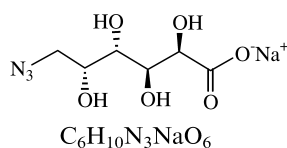
Ee = 100%

$[\alpha]_D^{24} = +79$ (c 0.5, MeOH)

Source of chirality: D-glucono-1,5-lactone

Ludovic Chaveriat, Imane Stasik,* Gilles Demailly and Daniel Beaupère

Tetrahedron: Asymmetry 17 (2006) 1349



6-Azido-6-deoxy-D-galactonic acid sodium salt

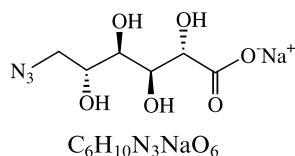
Ee = 100%

$[\alpha]_D^{24} = +64.7$ (c 0.4, H₂O)

Source of chirality: D-galactono-1,4-lactone

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Tetrahedron: Asymmetry 17 (2006) 1349



6-Azido-6-deoxy-D-mannonic acid sodium salt

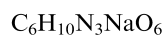
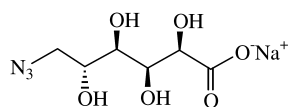
Ee = 100%

$[\alpha]_D^{24} = +5.1$ (c 0.6, H₂O)

Source of chirality: D-mannono-1,4-lactone

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Tetrahedron: Asymmetry 17 (2006) 1349



6-Azido-6-deoxy-D-gluconic acid sodium salt

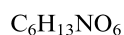
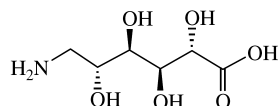
Ee = 100%

$[\alpha]_D^{24} = +7.0$ (c 0.3, H₂O)

Source of chirality: D-glucose

Ludovic Chaveriat, Imane Stasik,* Gilles Demailly and Daniel Beaupère

Tetrahedron: Asymmetry 17 (2006) 1349



6-Amino-6-deoxy-D-galactonic acid

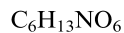
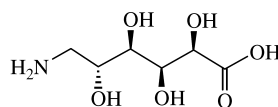
Ee = 100%

$[\alpha]_D^{24} = +83.2$ (c 0.4, H₂O)

Source of chirality: D-galactono-1,4-lactone

Ludovic Chaveriat, Imane Stasik,* Gilles Demailly and Daniel Beaupère

Tetrahedron: Asymmetry 17 (2006) 1349



6-Amino-6-deoxy-D-mannonic acid

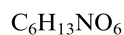
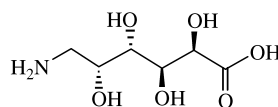
Ee = 100%

$[\alpha]_D^{24} = +4.3$ (c 0.6, H₂O)

Source of chirality: D-manno-1,4-lactone

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Tetrahedron: Asymmetry 17 (2006) 1349



6-Amino-6-deoxy-D-gluconic acid

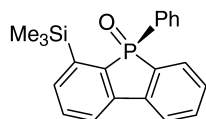
Ee = 100%

$[\alpha]_D^{24} = +18.7$ (c 0.5, H₂O)

Source of chirality: D-glucose

Michael Widhalm,* Lothar Brecker and Kurt Mereiter

Tetrahedron: Asymmetry 17 (2006) 1355



C₂₁H₂₁OPSi

(+)-(R)-4-Trimethylsilyl-5-phenyl-5H-dibenzophosphol oxide

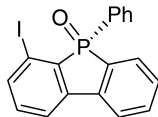
$[\alpha]_D^{20} = +281$ (c 1.21, CHCl₃)

Source of chirality: enantioselective chromatography (Chiralcel OD[®])

Absolute configuration: (R)_P

Michael Widhalm,* Lothar Brecker and Kurt Mereiter

Tetrahedron: Asymmetry 17 (2006) 1355



C₁₈H₁₂IOP

(-)-(S)-4-Iodo-5-phenyl-5H-dibenzophosphol oxide

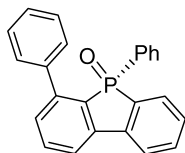
$[\alpha]_D^{20} = -77.2$ (c 1.03, CHCl₃)

Source of chirality: enantioselective chromatography of a precursor (Chiralcel OD[®])

Absolute configuration: (S)_P

Michael Widhalm,* Lothar Brecker and Kurt Mereiter

Tetrahedron: Asymmetry 17 (2006) 1355



C₂₄H₁₇OP

(-)-(S)-4,5-Diphenyl-4H-dibenzophosphol oxide

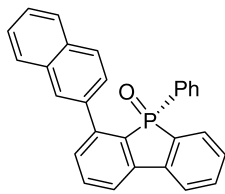
$[\alpha]_D^{20} = -199$ (c 1.03, CHCl₃)

Source of chirality: enantioselective chromatography of a precursor (Chiralcel OD[®])

Absolute configuration: (S)_P

Michael Widhalm,* Lothar Brecker and Kurt Mereiter

Tetrahedron: Asymmetry 17 (2006) 1355



C₂₈H₁₉OP

(-)-(S)-4-(2-Naphthyl)-5-phenyl-4H-dibenzophosphol oxide

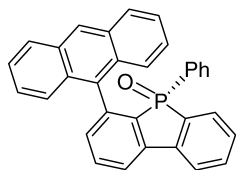
$[\alpha]_D^{20} = -357$ (c 1.01, CHCl₃)

Source of chirality: enantioselective chromatography of a precursor (Chiralcel OD[®])

Absolute configuration: (S)_P

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Tetrahedron: Asymmetry 17 (2006) 1355



$C_{32}H_{21}OP$

(+)-(S)-4-(9-Anthryl)-5-phenyl-4H-dibenzophosphol oxide

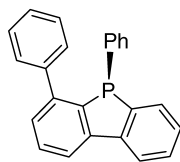
$[\alpha]_D^{20} = +45$ (c 0.43, $CHCl_3$)

Source of chirality: enantioselective chromatography of a precursor (Chiralcel OD[®])

Absolute configuration: (S)_P

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Tetrahedron: Asymmetry 17 (2006) 1355



$C_{24}H_{17}P$

(-)-(S)-4,5-Diphenyl-4H-dibenzophosphol

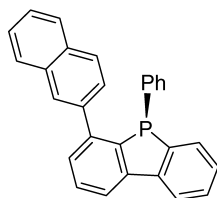
$[\alpha]_D^{20} = -164$ (c 1.00, $CHCl_3$)

Source of chirality: enantioselective chromatography of a precursor (Chiralcel OD[®])

Absolute configuration: (S)_P

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Tetrahedron: Asymmetry 17 (2006) 1355



$C_{28}H_{19}P$

(-)-(S)-4-(2-Naphthyl)-5-phenyl-4H-dibenzophosphol

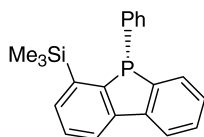
$[\alpha]_D^{20} = -162$ (c 1.00, $CHCl_3$)

Source of chirality: enantioselective chromatography of a precursor (Chiralcel OD[®])

Absolute configuration: (S)_P

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Tetrahedron: Asymmetry 17 (2006) 1355



$C_{21}H_{21}PSi$

(+)-(R)-4-Trimethylsilyl-5-phenyl-5H-dibenzophosphol

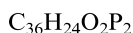
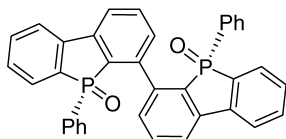
$[\alpha]_D^{20} = +291$ (c 0.740, $CHCl_3$)

Source of chirality: enantioselective chromatography of a precursor (Chiralcel OD[®])

Absolute configuration: (R)_P

Michael Widhalm,* Lothar Brecker and Kurt Mereiter

Tetrahedron: Asymmetry 17 (2006) 1355



(+)-(S,S)-5,5'-Diphenyl-4,4'-bis(5H-dibenzophosphol oxide)

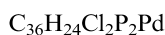
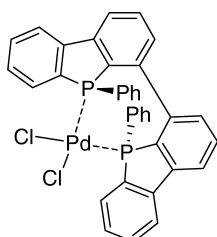
$$[\alpha]_D^{20} = +213 (c 0.736, CH_2Cl_2)$$

Source of chirality: enantioselective chromatography of a precursor (Chiralcel OD®)

Absolute configuration: (S)_P(S)_P

Michael Widhalm,* Lothar Brecker and Kurt Mereiter

Tetrahedron: Asymmetry 17 (2006) 1355



(-)-(S,S)-5,5'-Diphenyl-4,4'-bis(5H-dibenzophosphol)palladium dichloride complex

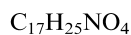
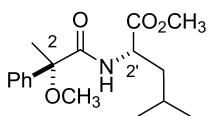
$$[\alpha]_D^{20} = -373 (c 0.105, CH_2Cl_2)$$

Source of chirality: enantioselective chromatography of a precursor (Chiralcel OD®)

Absolute configuration: (S)_P(S)_P

Rafał Kowalczyk and Jacek Skarżewski*

Tetrahedron: Asymmetry 17 (2006) 1370



(S)-2-((S)-2-Methoxy-2-phenyl-propionylamino)-4-methyl-pentanoic acid methyl ester

De = 100%

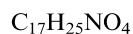
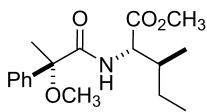
$$[\alpha]_D^{20} = +12.7 (c 0.88, CH_2Cl_2)$$

Source of chirality: natural compounds

Absolute configuration: (2S,2'S)

Rafał Kowalczyk and Jacek Skarżewski*

Tetrahedron: Asymmetry 17 (2006) 1370



(2S,3S)-2-((S)-2-Methoxy-2-phenyl-propionylamino)-3-methyl-pentanoic acid methyl ester

De = 100%

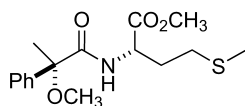
$$[\alpha]_D^{20} = +35.8 (c 0.30, CH_2Cl_2)$$

Source of chirality: natural compounds

Absolute configuration: (2S,2'S,3'S)

Rafał Kowalczyk and Jacek Skarżewski*

Tetrahedron: Asymmetry 17 (2006) 1370



$C_{16}H_{23}NO_4S$

(*S*)-2-((*S*)-2-Methoxy-2-phenyl-propionylamino)-4-methylsulfanyl-butyl propionate methyl ester

De = 100%

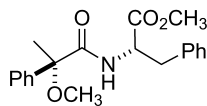
$[\alpha]_D^{20} = +36.4$ (*c* 0.84, CH_2Cl_2)

Source of chirality: natural compounds

Absolute configuration: (2*S*,2'*S*)

Rafał Kowalczyk and Jacek Skarżewski*

Tetrahedron: Asymmetry 17 (2006) 1370



$C_{20}H_{23}NO_4$

(*S*)-2-((*S*)-2-Methoxy-2-phenyl-propionylamino)-3-phenyl-propionic acid methyl ester

De = 100%

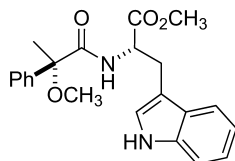
$[\alpha]_D^{20} = +98.7$ (*c* 1.14, CH_2Cl_2)

Source of chirality: natural compounds

Absolute configuration: (2*S*,2'*S*)

Rafał Kowalczyk and Jacek Skarżewski*

Tetrahedron: Asymmetry 17 (2006) 1370



$C_{22}H_{24}N_2O_4$

(*S*)-3-(1*H*-Indol-3-yl)-2-((*S*)-2-Methoxy-2-phenyl-propionylamino)-propionic acid methyl ester

De = 100%

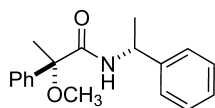
$[\alpha]_D^{20} = +75.6$ (*c* 0.24, CH_2Cl_2)

Source of chirality: natural compounds

Absolute configuration: (2*S*,2'*S*)

Rafał Kowalczyk and Jacek Skarżewski*

Tetrahedron: Asymmetry 17 (2006) 1370



$C_{18}H_{21}NO_2$

(*S*)-2-Methoxy-2-phenyl-*N*-((*R*)-1-phenyl-ethyl)-propionamide

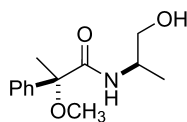
De = 100%

$[\alpha]_D^{20} = +130.3$ (*c* 0.26, CH_2Cl_2)

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

Rafał Kowalczyk and Jacek Skarżewski*

Tetrahedron: Asymmetry 17 (2006) 1370



$C_{13}H_{19}NO_3$

(*R*)-2-Aminopropanol-(*R*)-*O*-methylatrolactic acid amide

De = 100%

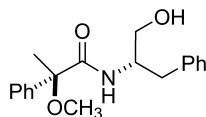
$[\alpha]_D^{20} = -39.7$ (*c* 1.36, CH_2Cl_2)

Source of chirality: natural compounds

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

Rafał Kowalczyk and Jacek Skarżewski*

Tetrahedron: Asymmetry 17 (2006) 1370



$C_{19}H_{23}NO_3$

(*S*)-Phenylalanin-2-ol-(*R*)-*O*-methylatrolactic acid amide

De = 100%

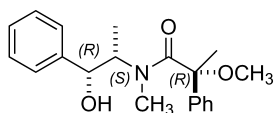
$[\alpha]_D^{20} = -43.0$ (*c* 0.64, CH_2Cl_2)

Source of chirality: natural compounds

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

Rafał Kowalczyk and Jacek Skarżewski*

Tetrahedron: Asymmetry 17 (2006) 1370



$C_{20}H_{25}NO_3$

(-)-Ephedrine-(*R*)-*O*-methylatrolactic acid amide

De = 100%

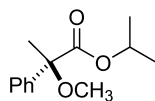
$[\alpha]_D^{20} = +3.4$ (*c* 0.76, CH_2Cl_2)

Source of chirality: natural compounds

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

Rafał Kowalczyk and Jacek Skarżewski*

Tetrahedron: Asymmetry 17 (2006) 1370



$C_{13}H_{18}O_3$

(*R*)-Propan-2-ol-*O*-methylatrolactate

Ee >98%

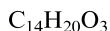
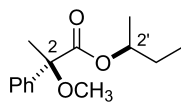
$[\alpha]_D^{20} = +24.4$ (*c* 0.31, CH_2Cl_2)

Source of chirality: *O*-methylatrolactic acid

Absolute configuration: (*R*)

Rafał Kowalczyk and Jacek Skarzewski*

Tetrahedron: Asymmetry 17 (2006) 1370



(*R,S*)-*sec*-Butyl-*O*-methylatrolactate

De = 100%

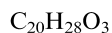
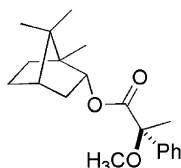
$[\alpha]_D^{20} = +40.4$ (*c* 0.76, CH_2Cl_2)

Source of chirality: natural compounds

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

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(-)-Bornyl-(*S*)-*O*-methylatrolactate

De = 100%

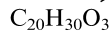
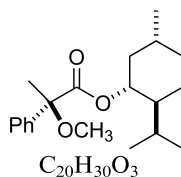
$[\alpha]_D^{20} = -37.9$ (*c* 0.83, CH_2Cl_2)

Source of chirality: natural compounds

Absolute configuration: (*2S,2'S*)

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(-)-Menthyl (*R*)-*O*-methylatrolactate

De = 100%

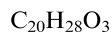
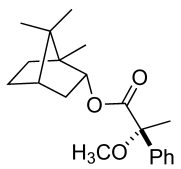
$[\alpha]_D^{20} = -49.5$ (*c* 1.1, CH_2Cl_2)

Source of chirality: natural compounds

Absolute configuration: (*2R,1'R,2'S,3'R*)

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Tetrahedron: Asymmetry 17 (2006) 1370



(-)-Bornyl (*R*)-*O*-methylatrolactate

De = 100%

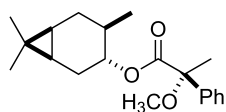
$[\alpha]_D^{20} = -11.1$ (*c* 0.92, CH_2Cl_2)

Source of chirality: natural compounds

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

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$C_{20}H_{28}O_3$

(-)-*cis*-Caran-*trans*-4-yl (*R*)-*O*-methylatrolactate

De = 100%

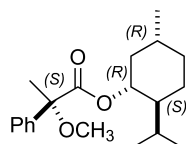
$[\alpha]_D^{20} = -42.3$ (*c* 1.0, CH_2Cl_2)

Source of chirality: natural compounds

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

Rafał Kowalczyk and Jacek Skarżewski*

Tetrahedron: Asymmetry 17 (2006) 1370



$C_{20}H_{30}O_3$

(-)-Menthyl (*S*)-*O*-methylatrolactate

De = 100%

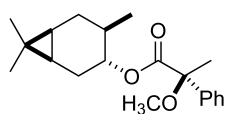
$[\alpha]_D^{20} = -73.3$ (*c* 0.63, CH_2Cl_2)

Source of chirality: natural compounds

Absolute configuration: (*2S,1'R,2'S,3'R*)

Rafał Kowalczyk and Jacek Skarżewski*

Tetrahedron: Asymmetry 17 (2006) 1370



$C_{20}H_{28}O_3$

(-)-*cis*-Caran-*trans*-4-yl (*S*)-*O*-methylatrolactate

De = 100%

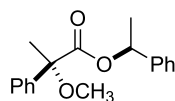
$[\alpha]_D^{20} = -74.2$ (*c* 0.90, CH_2Cl_2)

Source of chirality: natural compounds

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

Rafał Kowalczyk and Jacek Skarżewski*

Tetrahedron: Asymmetry 17 (2006) 1370



$C_{18}H_{20}O_3$

(*S*)-1-Phenylethyl-(*S*)-*O*-methylatrolactate

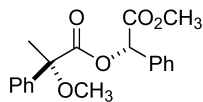
De = 100%

$[\alpha]_D^{20} = -44.2$ (*c* 0.75, CH_2Cl_2)

Absolute configuration: (*2S,2'S*)

Rafał Kowalczyk and Jacek Skarżewski*

Tetrahedron: Asymmetry 17 (2006) 1370



$C_{19}H_{20}O_5$

(*S*)-2-Methoxy-2-phenyl-propionic acid (*S*)-methoxycarbonyl-phenyl-methyl ester

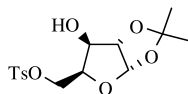
De = 100%

$[\alpha]_D^{20} = +61.3$ (*c* 1.05, CH_2Cl_2)

Absolute configuration: (2*S*,2'*S*)

Srivari Chandrasekhar,* Birudaraju Saritha, Vannada Jagadeshwar and Samala Jaya Prakash

Tetrahedron: Asymmetry 17 (2006) 1380



$C_{15}H_{20}O_7S$

6-Hydroxy-2,2-dimethyl-5-(4-methylphenylsulfonyloxymethyl)-(3*aS*,5*S*,6*R*,6*aS*)-perhydrofuro[2,3-*d*][1,3]dioxole

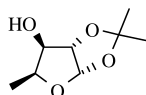
$[\alpha]_D^{20} = +13.8$ (*c* 1.0, CH_3OH)

Source of chirality: L-xylose

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

Srivari Chandrasekhar,* Birudaraju Saritha, Vannada Jagadeshwar and Samala Jaya Prakash

Tetrahedron: Asymmetry 17 (2006) 1380



$C_8H_{14}O_4$

2,2,5-Trimethyl-(3*aS*,5*S*,6*R*,6*aS*)-perhydrofuro[2,3-*d*][1,3]dioxol-6-ol

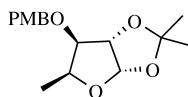
$[\alpha]_D^{20} = +22.4$ (*c* 1.0, CH_3OH)

Source of chirality: L-xylose

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

Srivari Chandrasekhar,* Birudaraju Saritha, Vannada Jagadeshwar and Samala Jaya Prakash

Tetrahedron: Asymmetry 17 (2006) 1380



$C_{16}H_{22}O_5$

6-Hydroxy-2,2-dimethyl-5-(4-methylphenylsulfonyloxymethyl)-(3*aS*,5*S*,6*R*,6*aS*)-perhydrofuro[2,3-*d*][1,3]dioxole

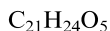
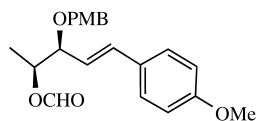
$[\alpha]_D^{20} = +20.3$ (*c* 1, CH_3OH)

Source of chirality: L-xylose

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

Srivari Chandrasekhar,* Birudaraju Saritha, Vannada Jagadeshwar and Samala Jaya Prakash

Tetrahedron: Asymmetry 17 (2006) 1380



2-(4-Methoxybenzyloxy)-4-(4-methoxyphenyl)-1-methyl-(1*S*,2*S*,3*E*)-3-butenyl formate

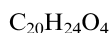
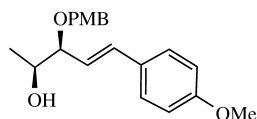
$$[\alpha]_D^{20} = +17.7 (c 1.0, CH_3OH)$$

Source of chirality: L-xylose

Absolute configuration: (1*S*,2*S*,3*E*)

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Tetrahedron: Asymmetry 17 (2006) 1380



3-(4-Methoxybenzyloxy)-5-(4-methoxyphenyl)-(2*S*,3*S*,4*E*)-4-penten-2-ol

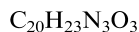
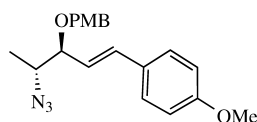
$$[\alpha]_D^{20} = +74.7 (c 1.1, CH_3OH)$$

Source of chirality: L-xylose

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

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Tetrahedron: Asymmetry 17 (2006) 1380



1-[4-Azido-3-(4-methoxybenzyloxy)-(E,3*S*,4*R*)-1-pentenyl]-4-methoxybenzene

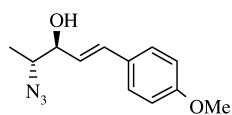
$$[\alpha]_D^{20} = +70.2 (c 0.5, MeOH)$$

Source of chirality: L-xylose

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

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Tetrahedron: Asymmetry 17 (2006) 1380



4-Azido-1-(4-methoxyphenyl)-(E,3*S*,4*R*)-1-penten-3-ol

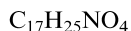
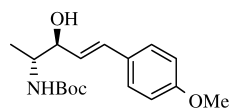
$$[\alpha]_D^{20} = +17.1 (c 0.8, MeOH)$$

Source of chirality: L-xylose

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

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Tetrahedron: Asymmetry 17 (2006) 1380



2-[*tert*-Butoxycarbonylamino]-(*2R,3S,4E*)-5-(4-methoxyphenyl)-pent-4-en-3-ol

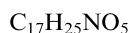
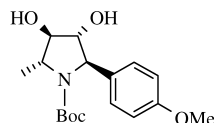
$$[\alpha]_D^{20} = -12.6 (c 0.5, \text{MeOH})$$

Source of chirality: L-xylose or D-serine

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

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tert-Butyl 3,4-dihydroxy-2-(4-methoxyphenyl)-5-methyl-(*2R,3R,4R,5R*)-tetrahydro-1*H*-1-pyrrolicarboxylate

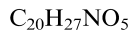
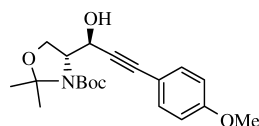
$$[\alpha]_D^{20} = -50.2 (c 1, \text{MeOH})$$

Source of chirality: L-xylose or D-serine

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

Srivari Chandrasekhar,* Birudaraju Saritha, Vannada Jagadeshwar and Samala Jaya Prakash

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tert-Butyl 4-[1-hydroxy-3-(4-methoxyphenyl)-(*1S*)-2-propynyl]-2,2-dimethyl-(*4R*)-1,3-oxazoline-3-carboxylate

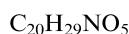
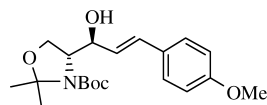
$$[\alpha]_D^{20} = +26.8 (c 1.4, \text{MeOH})$$

Source of chirality: D-serine

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

Srivari Chandrasekhar,* Birudaraju Saritha, Vannada Jagadeshwar and Samala Jaya Prakash

Tetrahedron: Asymmetry 17 (2006) 1380



tert-Butyl 4-[1-hydroxy-3-(4-methoxyphenyl)-(*1S,2E*)-2-propenyl]-2,2-dimethyl-(*4R*)-1,3-oxazoline-3-carboxylate

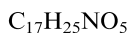
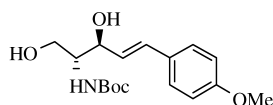
$$[\alpha]_D^{20} = -15.1 (c 1.9, \text{MeOH})$$

Source of chirality: D-serine

Absolute configuration: (*1S,2E,4R*)

Srivari Chandrasekhar,* Birudaraju Saritha, Vannada Jagadeshwar and Samala Jaya Prakash

Tetrahedron: Asymmetry 17 (2006) 1380



2-[*tert*-Butylcarbonylamino]-(*2R,3S,4E*)-5-(4-methoxyphenyl)-pent-4-ene-1,3-diol

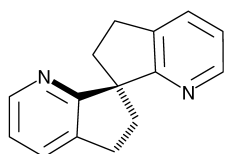
$$[\alpha]_D^{20} = -20.2 (c 1.4, CH_3OH)$$

Source of chirality: D-serine

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

Michele Claps, Nunziatina Parrinello, Carlos Saá, Jesús A. Varela, Salvatore Caccamese* and Carlo Rosini*

Tetrahedron: Asymmetry 17 (2006) 1387



5,5',6,6'-Tetrahydro-7,7'-spiro[7*H*-cyclopenta[*b*]pyridine]

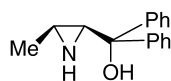
$$[\alpha]_D = +4.2 (c 0.46, EtOH)$$

Source of chirality: chromatographic resolution upon Chiralcel AD

Absolute configuration: (*aS*)

Feng Xichun,* Qiu Guofu, Liang Shucaai, Teng Hanbing, Wu Lamei and Hu Xianming*

Tetrahedron: Asymmetry 17 (2006) 1394



(*2S,3S*)-3-Methylaziridin-2-yl(diphenyl)methanol

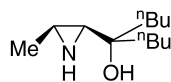
$$[\alpha]_D^{20} = +80.0 (c 1.0, CHCl_3)$$

Source of chirality: asymmetric synthesis

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

Feng Xichun,* Qiu Guofu, Liang Shucaai, Teng Hanbing, Wu Lamei and Hu Xianming*

Tetrahedron: Asymmetry 17 (2006) 1394



(*2S,3S*)-3-Methylaziridin-2-yl(dibutyl)methanol

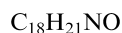
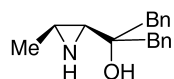
$$[\alpha]_D^{20} = -10.5 (c 0.5, CHCl_3)$$

Source of chirality: asymmetric synthesis

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

Feng Xichun,* Qiu Guofu, Liang Shucai, Teng Hanbing,
Wu Lamei and Hu Xianming*

Tetrahedron: Asymmetry 17 (2006) 1394



(2*S*,3*S*)-3-Methylaziridin-2-yl(dibenzyl)methanol

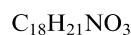
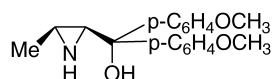
$$[\alpha]_D^{20} = -23.2 (c 0.5, CHCl_3)$$

Source of chirality: asymmetric synthesis

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

Feng Xichun,* Qiu Guofu, Liang Shucai, Teng Hanbing,
Wu Lamei and Hu Xianming*

Tetrahedron: Asymmetry 17 (2006) 1394



(2*S*,3*S*)-3-Methylaziridin-2-yl(bis(4-methoxyphenyl))methanol

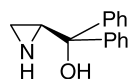
$$[\alpha]_D^{20} = +58.7 (c 0.5, CHCl_3)$$

Source of chirality: asymmetric synthesis

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

Feng Xichun,* Qiu Guofu, Liang Shucai, Teng Hanbing,
Wu Lamei and Hu Xianming*

Tetrahedron: Asymmetry 17 (2006) 1394



(2*S*)-Aziridin-2-yl(diphenyl)methanol

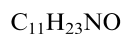
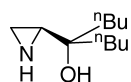
$$[\alpha]_D^{20} = -22.6 (c 1.0, CHCl_3)$$

Source of chirality: asymmetric synthesis

Absolute configuration: (2*S*)

Feng Xichun,* Qiu Guofu, Liang Shucai, Teng Hanbing,
Wu Lamei and Hu Xianming*

Tetrahedron: Asymmetry 17 (2006) 1394



(2*S*)-Aziridin-2-yl(dibutyl)methanol

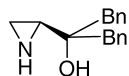
$$[\alpha]_D^{20} = -21.4 (c 10.0, THF)$$

Source of chirality: asymmetric synthesis

Absolute configuration: (2*S*)

Feng Xichun,* Qiu Guofu, Liang Shucaï, Teng Hanbing,
Wu Lamei and Hu Xianming*

Tetrahedron: Asymmetry 17 (2006) 1394



$C_{17}H_{19}NO$

(2*S*)-Aziridin-2-yl(dibenzyl)methanol

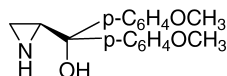
$[\alpha]_D^{20} = -28.4$ (*c* 1.0, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (2*S*)

Feng Xichun,* Qiu Guofu, Liang Shucaï, Teng Hanbing,
Wu Lamei and Hu Xianming*

Tetrahedron: Asymmetry 17 (2006) 1394



$C_{17}H_{19}NO_3$

(2*S*)-Aziridin-2-yl(bis(4-methoxyphenyl))methanol

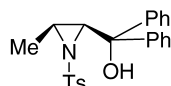
$[\alpha]_D^{20} = +67.0$ (*c* 9.0, THF)

Source of chirality: asymmetric synthesis

Absolute configuration: (2*S*)

Feng Xichun,* Qiu Guofu, Liang Shucaï, Teng Hanbing,
Wu Lamei and Hu Xianming*

Tetrahedron: Asymmetry 17 (2006) 1394



$C_{23}H_{23}NO_3S$

(2*S*,3*S*)-(3-Methyl-1-tosylaziridin-2-yl)diphenylmethanol

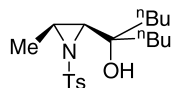
$[\alpha]_D^{20} = +22.1$ (*c* 1.0, $CHCl_3$)

Source of chirality: asymmetric synthesis

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

Feng Xichun,* Qiu Guofu, Liang Shucaï, Teng Hanbing,
Wu Lamei and Hu Xianming*

Tetrahedron: Asymmetry 17 (2006) 1394



$C_{19}H_{31}NO_3S$

(2*S*,3*S*)-(3-Methyl-1-tosylaziridin-2-yl)dibutylmethanol

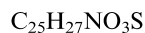
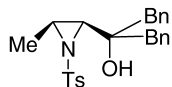
$[\alpha]_D^{20} = -5.2$ (*c* 1.0, $CHCl_3$)

Source of chirality: asymmetric synthesis

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

Feng Xichun,* Qiu Guofu, Liang Shucui, Teng Hanbing,
Wu Lamei and Hu Xianming*

Tetrahedron: Asymmetry 17 (2006) 1394



(2*S*,3*S*)-(3-Methyl-1-tosylaziridin-2-yl)dibenzylmethanol

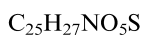
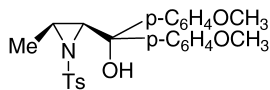
$$[\alpha]_D^{20} = -58.5 (c 1.0, CHCl_3)$$

Source of chirality: asymmetric synthesis

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

Feng Xichun,* Qiu Guofu, Liang Shucui, Teng Hanbing,
Wu Lamei and Hu Xianming*

Tetrahedron: Asymmetry 17 (2006) 1394



(2*S*,3*S*)-(3-Methyl-1-tosylaziridin-2-yl)bis(4-methoxyphenyl)methanol

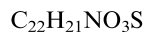
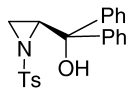
$$[\alpha]_D^{20} = +32.3 (c 1.0, CHCl_3)$$

Source of chirality: asymmetric synthesis

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

Feng Xichun,* Qiu Guofu, Liang Shucui, Teng Hanbing,
Wu Lamei and Hu Xianming*

Tetrahedron: Asymmetry 17 (2006) 1394



(*S*)-(1-Tosylaziridin-2-yl)diphenylmethanol

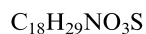
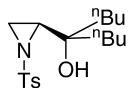
$$[\alpha]_D^{20} = -35.3 (c 1.0, CHCl_3)$$

Source of chirality: asymmetric synthesis

Absolute configuration: (*S*)

Feng Xichun,* Qiu Guofu, Liang Shucui, Teng Hanbing,
Wu Lamei and Hu Xianming*

Tetrahedron: Asymmetry 17 (2006) 1394



(*S*)-(1-Tosylaziridin-2-yl)dibutylmethanol

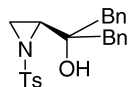
$$[\alpha]_D^{20} = -24.1 (c 1.0, CHCl_3)$$

Source of chirality: asymmetric synthesis

Absolute configuration: (*S*)

Feng Xichun,* Qiu Guofu, Liang Shucaï, Teng Hanbing,
Wu Lamei and Hu Xianming*

Tetrahedron: Asymmetry 17 (2006) 1394



$C_{24}H_{25}NO_3S$

(*S*)-(1-Tosylaziridin-2-yl)dibenzylmethanol

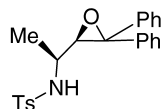
$[\alpha]_D^{20} = -47.4$ (*c* 1.0, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (*S*)

Feng Xichun,* Qiu Guofu, Liang Shucaï, Teng Hanbing,
Wu Lamei and Hu Xianming*

Tetrahedron: Asymmetry 17 (2006) 1394



$C_{23}H_{23}NO_3S$

(*2R,3S*)-*N*-(1-(3,3-Diphenyloxiran-2-yl)ethyl)-4-methylbenzenesulfonamide

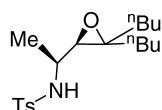
$[\alpha]_D^{20} = +130.7$ (*c* 1.0, $CHCl_3$)

Source of chirality: asymmetric synthesis

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

Feng Xichun,* Qiu Guofu, Liang Shucaï, Teng Hanbing,
Wu Lamei and Hu Xianming*

Tetrahedron: Asymmetry 17 (2006) 1394



$C_{19}H_{31}NO_3S$

(*2R,3S*)-*N*-(1-(3,3-Dibutyloxiran-2-yl)ethyl)-4-methylbenzenesulfonamide

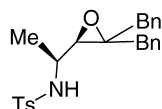
$[\alpha]_D^{20} = +36.2$ (*c* 0.5, $CHCl_3$)

Source of chirality: asymmetric synthesis

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

Feng Xichun,* Qiu Guofu, Liang Shucaï, Teng Hanbing,
Wu Lamei and Hu Xianming*

Tetrahedron: Asymmetry 17 (2006) 1394



$C_{25}H_{27}NO_3S$

(*2R,3S*)-*N*-(1-(3,3-Dibenzylloxiran-2-yl)ethyl)-4-methylbenzenesulfonamide

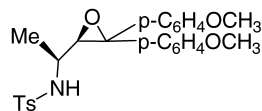
$[\alpha]_D^{20} = -28.9$ (*c* 1.0, $CHCl_3$)

Source of chirality: asymmetric synthesis

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

Feng Xichun,* Qiu Guofu, Liang Shucaï, Teng Hanbing,
Wu Lamei and Hu Xianming*

Tetrahedron: Asymmetry 17 (2006) 1394



$C_{25}H_{27}NO_5S$

(2*R*,3*S*)-*N*-(1-(3,3-bis(4-methoxyphenyl)oxiran-2-yl)ethyl)-4-methylbenzenesulfonamide

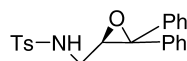
$[\alpha]_D^{20} = -26.2$ (*c* 1.0, $CHCl_3$)

Source of chirality: asymmetric synthesis

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

Feng Xichun,* Qiu Guofu, Liang Shucaï, Teng Hanbing,
Wu Lamei and Hu Xianming*

Tetrahedron: Asymmetry 17 (2006) 1394



$C_{22}H_{21}NO_3S$

(2*R*)-*N*-((3,3-diphenyloxiran-2-yl)methyl)-4-methylbenzenesulfonamide

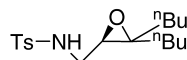
$[\alpha]_D^{20} = +84.3$ (*c* 1.0, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (*R*)

Feng Xichun,* Qiu Guofu, Liang Shucaï, Teng Hanbing,
Wu Lamei and Hu Xianming*

Tetrahedron: Asymmetry 17 (2006) 1394



$C_{18}H_{29}NO_3S$

(2*R*)-*N*-((3,3-dibutyloxiran-2-yl)methyl)-4-methylbenzenesulfonamide

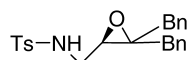
$[\alpha]_D^{20} = +37.4$ (*c* 0.5, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (*R*)

Feng Xichun,* Qiu Guofu, Liang Shucaï, Teng Hanbing,
Wu Lamei and Hu Xianming*

Tetrahedron: Asymmetry 17 (2006) 1394



$C_{24}H_{25}NO_3S$

(2*R*)-*N*-((3,3-dibenzoyloxiran-2-yl)methyl)-4-methylbenzenesulfonamide

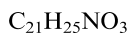
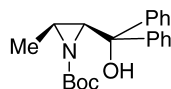
$[\alpha]_D^{20} = +40.5$ (*c* 1.0, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (*R*)

Feng Xichun,* Qiu Guofu, Liang Shucaï, Teng Hanbing,
Wu Lamei and Hu Xianming*

Tetrahedron: Asymmetry 17 (2006) 1394



(2*S*,3*S*)-*tert*-Butyl 2-(hydroxydiphenylmethyl)-3-methylaziridine-1-carboxylate

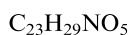
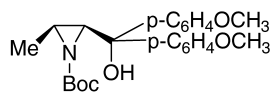
$$[\alpha]_D^{20} = -1.5 (c 1.0, CHCl_3)$$

Source of chirality: asymmetric synthesis

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

Feng Xichun,* Qiu Guofu, Liang Shucaï, Teng Hanbing,
Wu Lamei and Hu Xianming*

Tetrahedron: Asymmetry 17 (2006) 1394



(2*S*,3*S*)-*tert*-Butyl 2-(hydroxybis(4-methoxyphenyl)-3-methylaziridine-1-carboxylate

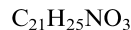
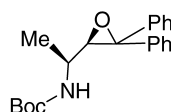
$$[\alpha]_D^{20} = -9.8 (c 0.5, CHCl_3)$$

Source of chirality: asymmetric synthesis

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

Feng Xichun,* Qiu Guofu, Liang Shucaï, Teng Hanbing,
Wu Lamei and Hu Xianming*

Tetrahedron: Asymmetry 17 (2006) 1394



(2*R*,3*S*)-*tert*-Butyl 1-(3,3-diphenyloxiran-2-yl)ethylcarbamate

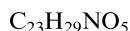
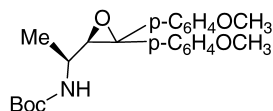
$$[\alpha]_D^{20} = +78.0 (c 1.0, CHCl_3)$$

Source of chirality: asymmetrical synthesis

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

Feng Xichun,* Qiu Guofu, Liang Shucaï, Teng Hanbing,
Wu Lamei and Hu Xianming*

Tetrahedron: Asymmetry 17 (2006) 1394



(2*R*,3*S*)-*tert*-Butyl 1-(3,3-bis(4-methoxyphenyl)oxiran-2-yl)ethylcarbamate

$$[\alpha]_D^{20} = +20.0 (c 0.6, CHCl_3)$$

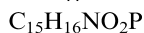
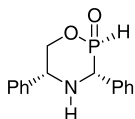
Source of chirality: asymmetrical synthesis

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

Jean-Noël Volle,* David Virieux, Matthieu Starck, Jérôme Monbrun,
Ludovic Clarion and Jean-Luc Pirat*

Tetrahedron: Asymmetry 17 (2006) 1402

$$[\alpha]_{\text{D}}^{20} = -19.0 \text{ (} c \text{ 1.04, CHCl}_3 \text{)}$$

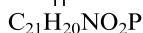
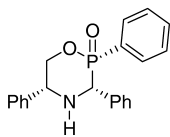


(2*S*,3*R*,5*R*)-(-)-3,5-Diphenyl-2-hydrogeno-2-oxo-[1,4,2]-oxazaphosphinane

Jean-Noël Volle,* David Virieux, Matthieu Starck, Jérôme Monbrun,
Ludovic Clarion and Jean-Luc Pirat*

Tetrahedron: Asymmetry 17 (2006) 1402

$$[\alpha]_{\text{D}}^{20} = +140.3 \text{ (} c \text{ 0.52, CHCl}_3 \text{)}$$

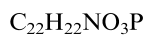
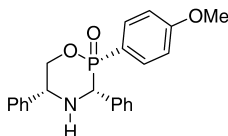


(2*S*,3*R*,5*R*)-(+)-2,3,5-Triphenyl-2-oxo-[1,4,2]-oxazaphosphinane

Jean-Noël Volle,* David Virieux, Matthieu Starck, Jérôme Monbrun,
Ludovic Clarion and Jean-Luc Pirat*

Tetrahedron: Asymmetry 17 (2006) 1402

$$[\alpha]_{\text{D}}^{20} = +145.6 \text{ (} c \text{ 0.51, CHCl}_3 \text{)}$$

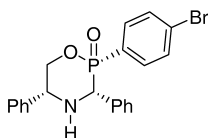


(2*S*,3*R*,5*R*)-(+)-2-*p*-Methoxyphenyl-3,5-diphenyl-2-oxo-[1,4,2]-oxazaphosphinane

Jean-Noël Volle,* David Virieux, Matthieu Starck, Jérôme Monbrun,
Ludovic Clarion and Jean-Luc Pirat*

Tetrahedron: Asymmetry 17 (2006) 1402

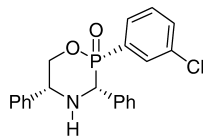
$$[\alpha]_{\text{D}}^{20} = +160.8 \text{ (} c \text{ 0.51, CHCl}_3 \text{)}$$



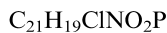
(2*S*,3*R*,5*R*)-(+)-2-*p*-Bromophenyl-3,5-diphenyl-2-oxo-[1,4,2]-oxazaphosphinane

Jean-Noël Volle,* David Virieux, Matthieu Starck, Jérôme Monbrun,
Ludovic Clarion and Jean-Luc Pirat*

Tetrahedron: Asymmetry 17 (2006) 1402



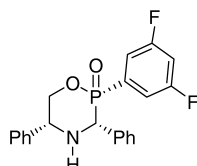
$$[\alpha]_{\text{D}}^{20} = +152.7 \text{ (} c \text{ 0.55, CHCl}_3\text{)}$$



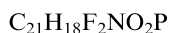
(2*S*,3*R*,5*R*)-(+)-2-*m*-Chlorophenyl-3,5-diphenyl-2-oxo-[1,4,2]-oxazaphosphinane

Jean-Noël Volle,* David Virieux, Matthieu Starck, Jérôme Monbrun,
Ludovic Clarion and Jean-Luc Pirat*

Tetrahedron: Asymmetry 17 (2006) 1402



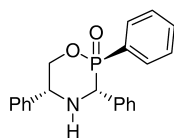
$$[\alpha]_{\text{D}}^{20} = +122.2 \text{ (} c \text{ 0.54, CHCl}_3\text{)}$$



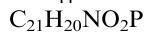
(2*S*,3*R*,5*R*)-(+)-2-(3,5-Difluorophenyl)-3,5-diphenyl-2-oxo-[1,4,2]-oxazaphosphinane

Jean-Noël Volle,* David Virieux, Matthieu Starck, Jérôme Monbrun,
Ludovic Clarion and Jean-Luc Pirat*

Tetrahedron: Asymmetry 17 (2006) 1402



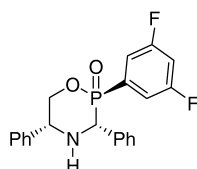
$$[\alpha]_{\text{D}}^{20} = -91.7 \text{ (} c \text{ 0.48, CHCl}_3\text{)}$$



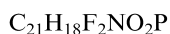
(2*R*,3*R*,5*R*)-(-)-2,3,5-Triphenyl-2-oxo-[1,4,2]-oxazaphosphinane

Jean-Noël Volle,* David Virieux, Matthieu Starck, Jérôme Monbrun,
Ludovic Clarion and Jean-Luc Pirat*

Tetrahedron: Asymmetry 17 (2006) 1402



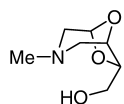
$$[\alpha]_{\text{D}}^{20} = -80.0 \text{ (} c \text{ 0.50, acetone)}$$



(2*R*,3*R*,5*R*)-(-)-2-(3,5-Difluorophenyl)-3,5-diphenyl-2-oxo-[1,4,2]-oxazaphosphinane

Dina Scarpi,* Fabrizio Lo Galbo and Antonio Guarna

Tetrahedron: Asymmetry 17 (2006) 1409



$C_7H_{13}NO_3$

(1*S*,5*S*,7*R*)-(3-Methyl-6,8-dioxa-3-aza-bicyclo[3.2.1]oct-7-yl)-methanol

Ee = 100%

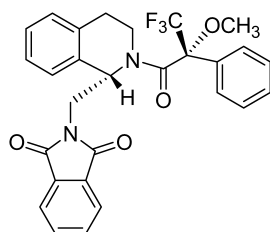
$[\alpha]_D^{22} = -91.2$ (c 0.89, $CHCl_3$)

Source of chirality: (–)-2,3-*O*-isopropylidene-*D*-erythronolactone

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

Piotr Roszkowski, Jan K. Maurin and Zbigniew Czarnocki*

Tetrahedron: Asymmetry 17 (2006) 1415



$C_{28}H_{23}N_2O_4F_3$

(1*S*)-1-Phthalimidomethyl-2-[(2'*R*)-3',3',3'-trifluoro-2'-methoxy-2'-phenylpropanoyl]-1,2,3,4-tetrahydroisoquinoline

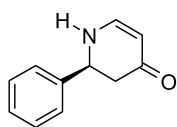
$[\alpha]_D^{23} = +35.0$ (c 1.00, $CHCl_3$)

Source of chirality: asymmetric transfer hydrogenation

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

Robert Kawęcki

Tetrahedron: Asymmetry 17 (2006) 1420



$C_{11}H_{11}NO$

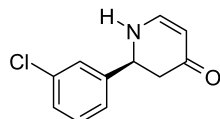
(2*S*)-2,3-Dihydro-2-phenyl-4-(1*H*)-pyridinone

Ee = 60%

$[\alpha]_D = +195.3$ (c 2.51, EtOH)

Robert Kawęcki

Tetrahedron: Asymmetry 17 (2006) 1420



$C_{11}H_{10}ClNO$

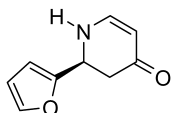
(2*S*)-2-(3-Chlorophenyl)-2,3-dihydro-4-(1*H*)-pyridinone

Ee = 68%

$[\alpha]_D = +104.9$ (c 2.14, $CHCl_3$)

Robert Kawęcki

Tetrahedron: Asymmetry 17 (2006) 1420



C_9H_9NO

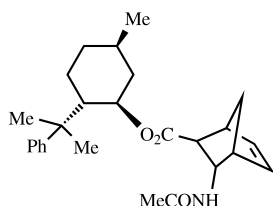
(2*S*)-2,3-Dihydro-2-(2-furyl)-4-(1*H*)-pyridinone

Ee = 69%

$[\alpha]_D = +430.1$ (*c* 0.565, $CHCl_3$)

Francesco Caputo, Francesca Clerici, Maria Luisa Gelmi,*
Sara Pellegrino and Donato Pocar

Tetrahedron: Asymmetry 17 (2006) 1430



$C_{26}H_{35}NO_3$

(-)-8-Phenylmenthyl 2-acetylamino-bicyclo[2.2.1]hept-5-ene-2-carboxylate

mp 188–189 °C (acetone)

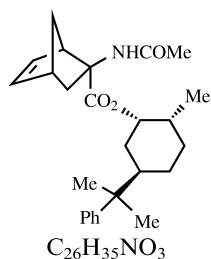
$[\alpha]_D^{25} = -49.7$ (*c* 0.8, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: 1*S*,2*S*,4*S*

Francesco Caputo, Francesca Clerici, Maria Luisa Gelmi,*
Sara Pellegrino and Donato Pocar

Tetrahedron: Asymmetry 17 (2006) 1430



$C_{26}H_{35}NO_3$

(-)-8-Phenylmenthyl 2-acetylamino-bicyclo[2.2.1]hept-5-ene-2-carboxylate

mp 230 °C (acetone)

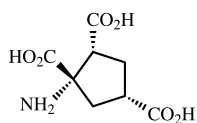
$[\alpha]_D^{25} = +79.6$ (*c* 0.6, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: 1*R*,2*S*,4*R*

Francesco Caputo, Francesca Clerici, Maria Luisa Gelmi,*
Sara Pellegrino and Donato Pocar

Tetrahedron: Asymmetry 17 (2006) 1430



$C_8H_{11}NO_6$

1-Aminocyclopentane-1,2,4-tricarboxylic acid

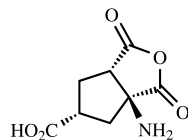
$[\alpha]_D^{25} = +3.1$ (*c* 0.26, H_2O)

Source of chirality: asymmetric synthesis

Absolute configuration: 1*S*,2*R*,4*S*

Francesco Caputo, Francesca Clerici, Maria Luisa Gelmi,*
Sara Pellegrino and Donato Pocar

Tetrahedron: Asymmetry 17 (2006) 1430



3a-Amino-1,3-dioxo-hexahydro-cyclopenta[c]furan-5-carboxylic acid

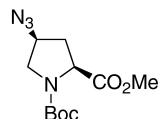
$$[\alpha]_D^{25} = +6.7 (c 0.25, H_2O)$$

Source of chirality: asymmetric synthesis

Absolute configuration: 3a*S*,5*R*,6a*S*

Faïza Diaba, Eva Ricou and Josep Bonjoch*

Tetrahedron: Asymmetry 17 (2006) 1437



1-*tert*-Butyl 2-methyl (2*S*,4*S*)-4-azido-1,2-pyrrolidinedicarboxylate

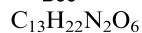
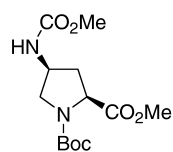
$$[\alpha]_D^{23} = -40.3 (c 1, CHCl_3)$$

Source of chirality: *trans*-4-hydroxy-L-proline

Absolute configuration: 2*S*,4*S*

Faïza Diaba, Eva Ricou and Josep Bonjoch*

Tetrahedron: Asymmetry 17 (2006) 1437



1-*tert*-Butyl 2-methyl (2*S*,4*S*)-4-(*N*-methoxycarbonyl)aminopyrrolidine-1,2-dicarboxylate

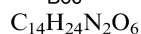
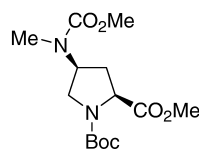
$$[\alpha]_D^{23} = -23.7 (c 0.85, CHCl_3)$$

Source of chirality: *trans*-4-hydroxy-L-proline

Absolute configuration: 2*S*,4*S*

Faïza Diaba, Eva Ricou and Josep Bonjoch*

Tetrahedron: Asymmetry 17 (2006) 1437



tert-Butyl 2-methyl (2*S*,4*S*)-4-[(*N*-methoxycarbonyl)-*N*-methylamino]pyrrolidine-1,2-dicarboxylate

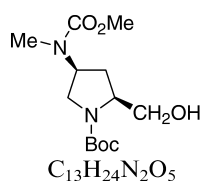
$$[\alpha]_D^{23} = -44.7 (c 1, CHCl_3)$$

Source of chirality: *trans*-4-hydroxy-L-proline

Absolute configuration: 2*S*,4*S*

Faïza Diaba, Eva Ricou and Josep Bonjoch*

Tetrahedron: Asymmetry 17 (2006) 1437



tert-Butyl (2*S*,4*S*)-2-(hydroxymethyl)-4-[(*N*-methoxycarbonyl)-*N*-methylamino]pyrrolidine-1-carboxylate

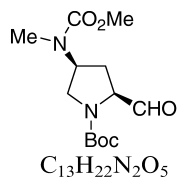
$$[\alpha]_D^{23} = -43.7 (c 1, CHCl_3)$$

Source of chirality: *trans*-4-hydroxy-*L*-proline

Absolute configuration: 2*S*,4*S*

Faïza Diaba, Eva Ricou and Josep Bonjoch*

Tetrahedron: Asymmetry 17 (2006) 1437



tert-Butyl (2*S*,4*S*)-2-formyl-4-[(*N*-methoxycarbonyl)-*N*-methylamino]pyrrolidine-1-carboxylate

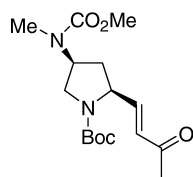
$$[\alpha]_D^{23} = -70.7 (c 1, CHCl_3)$$

Source of chirality: *trans*-4-hydroxy-*L*-proline

Absolute configuration: 2*S*,4*S*

Faïza Diaba, Eva Ricou and Josep Bonjoch*

Tetrahedron: Asymmetry 17 (2006) 1437



tert-Butyl (2*S*,4*S*)-2-[(1*E*)-3-oxobut-1-enyl]-4-[(*N*-methoxycarbonyl)-*N*-methylamino]pyrrolidine-1-carboxylate

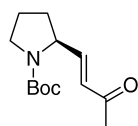
$$[\alpha]_D^{23} = -31.8 (c 1, CHCl_3)$$

Source of chirality: *trans*-4-hydroxy-*L*-proline

Absolute configuration: 2*S*,4*S*

Faïza Diaba, Eva Ricou and Josep Bonjoch*

Tetrahedron: Asymmetry 17 (2006) 1437



tert-Butyl (2*S*)-2-[(1*E*)-3-oxobut-1-enyl]pyrrolidine-1-carboxylate

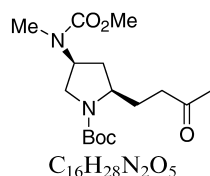
$$[\alpha]_D^{23} = -86.9 (c 1, CHCl_3)$$

Source of chirality: *L*-proline

Absolute configuration: 2*S*

Faïza Diaba, Eva Ricou and Josep Bonjoch*

Tetrahedron: Asymmetry 17 (2006) 1437



tert-Butyl (2*R*,4*S*)-2-(3-oxobutyl)-4-[(*N*-methoxycarbonyl)-*N*-methylamino]pyrrolidine-1-carboxylate

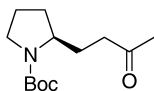
$[\alpha]_D^{23} = -47.3$ (*c* 1, $CHCl_3$)

Source of chirality: *trans*-4-hydroxy-*L*-proline

Absolute configuration: 2*R*,4*S*

Faïza Diaba, Eva Ricou and Josep Bonjoch*

Tetrahedron: Asymmetry 17 (2006) 1437



tert-Butyl (2*S*)-2-(3-oxobutyl)pyrrolidine-1-carboxylate

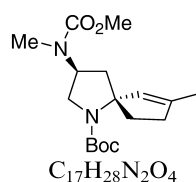
$[\alpha]_D^{23} = -51.8$ (*c* 1, $CHCl_3$)

Source of chirality: *L*-proline

Absolute configuration: 2*S*

Faïza Diaba, Eva Ricou and Josep Bonjoch*

Tetrahedron: Asymmetry 17 (2006) 1437



tert-Butyl (3*S*,5*R*)-4-[(*N*-methoxycarbonyl)-*N*-methylamino]-7-methyl-1-azaspiro[4.4]non-6-ene-1-carboxylate

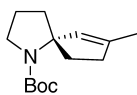
$[\alpha]_D^{23} = -78.3$ (*c* 1, $CHCl_3$)

Source of chirality: *trans*-4-hydroxy-*L*-proline

Absolute configuration: 3*S*,5*R*

Faïza Diaba, Eva Ricou and Josep Bonjoch*

Tetrahedron: Asymmetry 17 (2006) 1437



tert-Butyl (5*R*)-7-methyl-1-azaspiro[4.4]non-6-ene-1-carboxylate

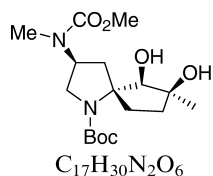
$[\alpha]_D^{23} = -104.8$ (*c* 1, $CHCl_3$)

Source of chirality: *L*-proline

Absolute configuration: 5*R*

Faïza Diaba, Eva Ricou and Josep Bonjoch*

Tetrahedron: Asymmetry 17 (2006) 1437



C₁₇H₃₀N₂O₆

tert-Butyl (3*S*,5*R*,6*R*,7*S*)-6,7-dihydroxy-4-[(*N*-methoxycarbonyl)-*N*-methylamino]-7-methyl-1-azaspiro[4.4]nonane-1-carboxylate

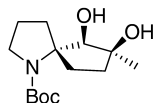
$$[\alpha]_D^{23} = +11.8 \text{ (} c \text{ 1.05, CHCl}_3\text{)}$$

Source of chirality: *trans*-4-hydroxy-*L*-proline

Absolute configuration: 3*S*,5*R*,6*R*,7*S*

Faïza Diaba, Eva Ricou and Josep Bonjoch*

Tetrahedron: Asymmetry 17 (2006) 1437



C₁₄H₂₅NO₄

tert-Butyl (5*S*,6*R*,7*S*)-6,7-dihydroxy-7-methyl-1-azaspiro[4.4]nonane-1-carboxylate

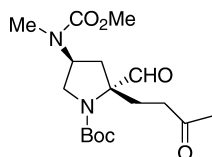
$$[\alpha]_D^{23} = +40.5 \text{ (} c \text{ 1.05, CHCl}_3\text{)}$$

Source of chirality: *L*-proline

Absolute configuration: 5*S*,6*R*,7*S*

Faïza Diaba, Eva Ricou and Josep Bonjoch*

Tetrahedron: Asymmetry 17 (2006) 1437



C₁₇H₂₈N₂O₆

tert-Butyl (2*R*,4*S*)-2-formyl-4-[(*N*-methoxycarbonyl)-*N*-methylamino]-2-(3-oxobutyl)pyrrolidine-1-carboxylate

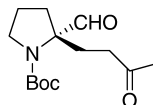
$$[\alpha]_D^{23} = +12.5 \text{ (} c \text{ 1, CHCl}_3\text{)}$$

Source of chirality: *trans*-4-hydroxy-*L*-proline

Absolute configuration: 2*R*,4*S*

Faïza Diaba, Eva Ricou and Josep Bonjoch*

Tetrahedron: Asymmetry 17 (2006) 1437



C₁₄H₂₃NO₄

tert-Butyl (2*S*)-2-formyl-2-(3-oxobutyl)pyrrolidine-1-carboxylate

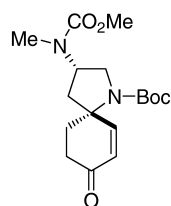
$$[\alpha]_D^{23} = +11.9 \text{ (} c \text{ 1, CHCl}_3\text{)}$$

Source of chirality: *L*-proline

Absolute configuration: 2*S*

Faïza Diaba, Eva Ricou and Josep Bonjoch*

Tetrahedron: Asymmetry 17 (2006) 1437



C₁₇H₂₆N₂O₅

tert-Butyl (3*S*,5*R*)-4-[(*N*-methoxycarbonyl)-*N*-methylamino]-8-oxo-1-azaspiro[4.5]dec-6-ene-1-carboxylate

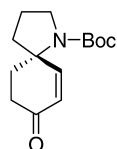
$[\alpha]_D^{23} = -18.3$ (*c* 1.05, CHCl₃)

Source of chirality: *trans*-4-hydroxy-*L*-proline

Absolute configuration: 3*S*,5*R*

Faïza Diaba, Eva Ricou and Josep Bonjoch*

Tetrahedron: Asymmetry 17 (2006) 1437



C₁₄H₂₁NO₃

tert-Butyl (5*S*)-8-oxo-1-azaspiro[4.5]dec-6-ene-1-carboxylate

Ee ≥ 90% by HPLC on Chiralpak® AD column

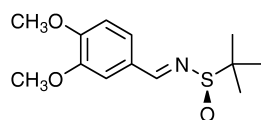
$[\alpha]_D^{23} = -111.5$ (*c* 0.95, CHCl₃)

Source of chirality: *L*-proline

Absolute configuration: 5*S*

Agnieszka Kościółowicz and Maria D. Rozwadowska*

Tetrahedron: Asymmetry 17 (2006) 1444



C₁₃H₁₉NO₃S

(*R*_S)-(-)-*N*-(3,4-Dimethoxybenzylidene)-2-methylpropanesulfinamide

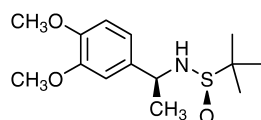
$[\alpha]_D = -19.1$ (*c* 0.185, CH₂Cl₂)

Source of chirality: *N-tert*-butanesulfinylamide

Absolute configuration: (*R*_S)

Agnieszka Kościółowicz and Maria D. Rozwadowska*

Tetrahedron: Asymmetry 17 (2006) 1444



C₁₄H₂₃NO₃S

(*R*_S,*S*)-(-)-*N*-[1-(3,4-Dimethoxyphenylethyl)]-2-methylpropanesulfinamide

De 98% [by chiral HPLC analysis]

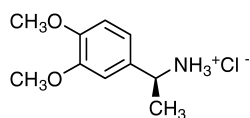
$[\alpha]_D = -100.0$ (*c* 1.105, CHCl₃)

Source of chirality: asymmetric synthesis

Absolute configuration: (*R*_S,*S*)

Agnieszka Kościółowicz and Maria D. Rozwadowska*

Tetrahedron: Asymmetry 17 (2006) 1444



$C_{10}H_{15}NO_2 \cdot HCl$

(S)-(-)-1-(3,4-Dimethoxyphenyl)ethylamine hydrochloride

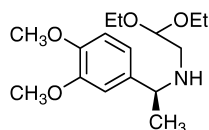
$[\alpha]_D = -6.9$ (*c* 0.7, MeOH)

Source of chirality: asymmetric synthesis

Absolute configuration: (S)

Agnieszka Kościółowicz and Maria D. Rozwadowska*

Tetrahedron: Asymmetry 17 (2006) 1444



$C_{16}H_{27}NO_4$

(S)-(-)-N-(2,2-Diethoxyethyl)-1-(3,4-dimethoxyphenyl)ethylamine

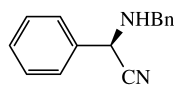
$[\alpha]_D = -29.6$ (*c* 0.8, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (S)

John Blacker, Lisa A. Clutterbuck, Michael R. Crampton,*
Christophe Grosjean and Michael North*

Tetrahedron: Asymmetry 17 (2006) 1449



$C_{15}H_{14}N_2$

(R)-2-Benzylamino-phenylacetonitrile

Ee = 75%

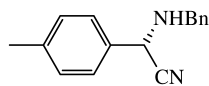
$[\alpha]_D^{20} = +64.0$ (*c* 1, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (R)

John Blacker, Lisa A. Clutterbuck, Michael R. Crampton,*
Christophe Grosjean and Michael North*

Tetrahedron: Asymmetry 17 (2006) 1449



$C_{16}H_{16}N_2$

(S)-2-Benzylamino-(4-methylphenyl)acetonitrile

Ee = 70%

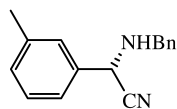
$[\alpha]_D^{20} = -32.2$ (*c* 1, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (S)

John Blacker, Lisa A. Clutterbuck, Michael R. Crampton,*
Christophe Grosjean and Michael North*

Tetrahedron: Asymmetry 17 (2006) 1449



C₁₆H₁₆N₂

(*S*)-2-Benzylamino-(3-methylphenyl)acetonitrile

Ee = 74%

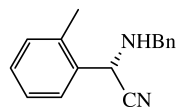
$[\alpha]_D^{20} = -58.0$ (*c* 1, CHCl₃)

Source of chirality: asymmetric synthesis

Absolute configuration: (*S*)

John Blacker, Lisa A. Clutterbuck, Michael R. Crampton,*
Christophe Grosjean and Michael North*

Tetrahedron: Asymmetry 17 (2006) 1449



C₁₆H₁₆N₂

(*S*)-2-Benzylamino-(2-methylphenyl)acetonitrile

Ee = 52%

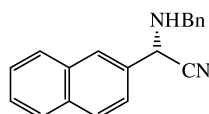
$[\alpha]_D^{20} = -72.1$ (*c* 1, CHCl₃)

Source of chirality: asymmetric synthesis

Absolute configuration: (*S*)

John Blacker, Lisa A. Clutterbuck, Michael R. Crampton,*
Christophe Grosjean and Michael North*

Tetrahedron: Asymmetry 17 (2006) 1449



C₁₉H₁₆N₂

(*S*)-2-Benzylamino-(2-naphthyl)acetonitrile

Ee = 72%

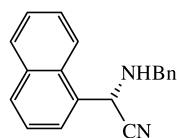
$[\alpha]_D^{20} = -4.0$ (*c* 1, CHCl₃)

Source of chirality: asymmetric synthesis

Absolute configuration: (*S*)

John Blacker, Lisa A. Clutterbuck, Michael R. Crampton,*
Christophe Grosjean and Michael North*

Tetrahedron: Asymmetry 17 (2006) 1449



C₁₉H₁₆N₂

(*S*)-2-Benzylamino-(1-naphthyl)acetonitrile

Ee = 34%

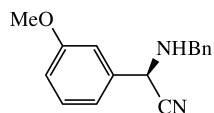
$[\alpha]_D^{20} = -112.0$ (*c* 0.5, CHCl₃)

Source of chirality: asymmetric synthesis

Absolute configuration: (*S*)

John Blacker, Lisa A. Clutterbuck, Michael R. Crampton,*
Christophe Grosjean and Michael North*

Tetrahedron: Asymmetry 17 (2006) 1449



$C_{16}H_{16}N_2O$

(*R*)-2-Benzylamino-(3-methoxyphenyl)acetonitrile

Ee = 59%

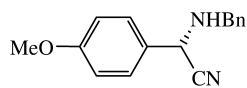
$[\alpha]_D^{20} = +25.9$ (*c* 1, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (*R*)

John Blacker, Lisa A. Clutterbuck, Michael R. Crampton,*
Christophe Grosjean and Michael North*

Tetrahedron: Asymmetry 17 (2006) 1449



$C_{19}H_{16}N_2O$

(*S*)-2-Benzylamino-(4-methoxyphenyl)acetonitrile

Ee = 72%

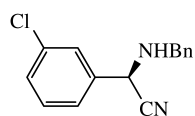
$[\alpha]_D^{20} = -12.0$ (*c* 1, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (*S*)

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$C_{15}H_{13}N_2Cl$

(*R*)-2-Benzylamino-(3-chlorophenyl)acetonitrile

Ee = 57%

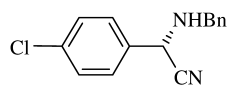
$[\alpha]_D^{22} = +2.4$ (*c* 1, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (*R*)

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$C_{15}H_{13}N_2Cl$

(*S*)-2-Benzylamino-(4-chlorophenyl)acetonitrile

Ee = 41%

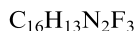
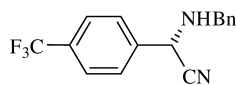
$[\alpha]_D^{20} = -19.7$ (*c* 0.8, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (*S*)

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(*S*)-2-Benzylamino-(4-trifluoromethylphenyl)acetonitrile

Ee = 31%

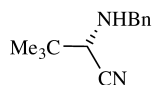
$[\alpha]_D^{20} = -28.3$ (*c* 1, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (*S*)

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(*S*)-2-Benzylamino-3,3-dimethylbutanonitrile

Ee = 16%

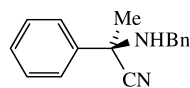
$[\alpha]_D^{20} = -29.3$ (*c* 1, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (*S*)

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(*R*)-2-Benzylamino-2-phenyl-propanonitrile

Ee = 43%

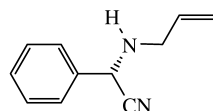
$[\alpha]_D^{21} = +16.6$ (*c* 0.5, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (*R*)

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(*S*)-2-Allylamino-phenylacetonitrile

Ee = 31%

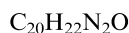
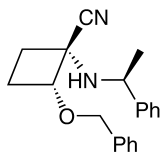
$[\alpha]_D^{22} = -65.5$ (*c* 0.5, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (*S*)

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2-Benzyloxy-1-[(1'-phenylethyl)amino]cyclobutanecarbonitrile

Ee >99%

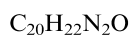
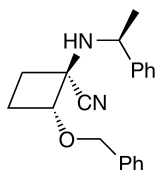
$[\alpha]_D^{20} = -66$ (c 1, $CHCl_3$)

Source of chirality: (S)- α -phenylethylamine

Absolute configuration: (1R,2R,1'S) assigned by X-ray analysis

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2-Benzyloxy-1-[(1'-phenylethyl)amino]cyclobutanecarbonitrile

Ee >99%

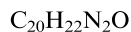
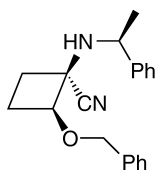
$[\alpha]_D^{20} = -63$ (c 1, $CHCl_3$)

Source of chirality: (S)- α -phenylethylamine

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

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2-Benzyloxy-1-[(1'-phenylethyl)amino]cyclobutanecarbonitrile

Ee >99%

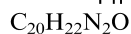
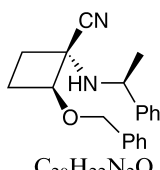
$[\alpha]_D^{20} = -78.5$ (c 1, $CHCl_3$)

Source of chirality: (S)- α -phenylethylamine

Absolute configuration: (1S,2S,1'S)

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2-Benzyloxy-1-[(1'-phenylethyl)amino]cyclobutanecarbonitrile

Ee >99%

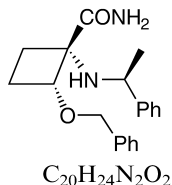
$[\alpha]_D^{20} = -101$ (c 1, $CHCl_3$)

Source of chirality: (S)- α -phenylethylamine

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

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2-Benzyloxy-1-[(1'-phenylethyl)amino]cyclobutanecarboxamide

Ee >99%

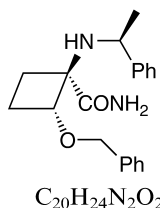
$[\alpha]_D^{20} = +62$ (c 1, CHCl₃)

Source of chirality: (S)- α -phenylethylamine

Absolute configuration: (1*S*,2*R*,1'*S*) assigned by X-ray analysis of precursor

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2-Benzyloxy-1-[(1'-phenylethyl)amino]cyclobutanecarboxamide

Ee >99%

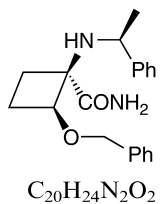
$[\alpha]_D^{20} = -26.6$ (c 1, CHCl₃)

Source of chirality: (S)- α -phenylethylamine

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

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2-Benzyloxy-1-[(1'-phenylethyl)amino]cyclobutanecarboxamide

Ee >99%

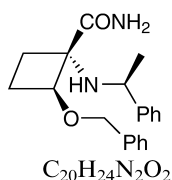
$[\alpha]_D^{20} = -67$ (c 1, CHCl₃)

Source of chirality: (S)- α -phenylethylamine

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

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2-Benzyloxy-1-[(1'-phenylethyl)amino]cyclobutanecarboxamide

Ee >99%

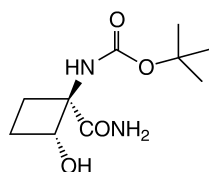
$[\alpha]_D^{20} = +14$ (c 1, CHCl₃)

Source of chirality: (S)- α -phenylethylamine

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

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1-(*N*-*tert*-Butyloxycarbonyl)amino-2-hydroxycyclobutanecarboxamide

Ee >99%

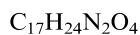
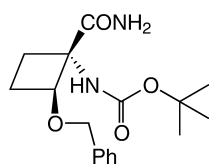
$[\alpha]_D^{20} = -35.8$ (*c* 0.5, MeOH)

Source of chirality: (*S*)- α -phenylethylamine

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

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1-(*N*-*tert*-Butyloxycarbonyl)amino-2-benzyloxycyclobutanecarboxamide

Ee >99%

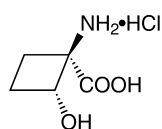
$[\alpha]_D^{20} = +11.6$ (*c* 0.75, CHCl₃)

Source of chirality: (*S*)- α -phenylethylamine

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

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1-Amino-2-hydroxycyclobutanecarboxylic acid·hydrochloride

Ee >99%

$[\alpha]_D^{20} = -8.8$ (*c* 0.30, H₂O)

Source of chirality: (*S*)- α -phenylethylamine

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