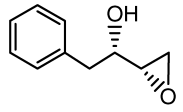
Rodney A. Fernandes

*Tetrahedron:* Asymmetry *19 (2008) 15*

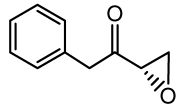



$C_{10}H_{12}O_2$
(+)-(2*S*,3*S*)-1,2-Epoxy-4-phenylbutan-3-ol

Ee = 95%
$[\alpha]_D^{20} = +6.42$ (*c* 1.8, $CHCl_3$)
Source of chirality: asymmetric dihydroxylation
Absolute configuration: (2*S*,3*S*)

Rodney A. Fernandes

*Tetrahedron:* Asymmetry *19 (2008) 15*

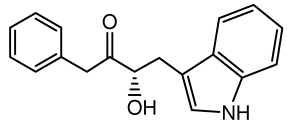



$C_{10}H_{10}O_2$
(−)-(2*S*)-1,2-Epoxy-4-phenylbutan-3-one

Ee = 95%
$[\alpha]_D^{20} = -36.4$ (*c* 1.5, $CHCl_3$)
Source of chirality: enantiopure reactant
Absolute configuration: (2*S*)

Rodney A. Fernandes

*Tetrahedron:* Asymmetry *19 (2008) 15*

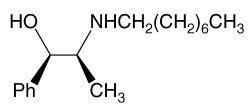



$C_{18}H_{17}NO_2$
(+)-(*S*)-3-Hydroxy-4-(1*H*-indol-3-yl)-1-phenylbutan-2-one

Ee = 95%
$[\alpha]_D^{20} = +30.7$ (*c* 0.15, $CHCl_3$)
Source of chirality: enantiopure reactant
Absolute configuration: (3*S*)

Raleigh W. Parrott, II and Shawn R. Hitchcock*

*Tetrahedron:* Asymmetry *19 (2008) 19*

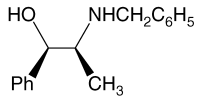



$C_{17}H_{29}NO$
(1*R*,2*S*)-2-(*n*-Octylamino)-1-phenylpropan-1-ol

$[\alpha]_D^{25} = +15.1$ (*c* 0.12, $CHCl_3$)
Source of chirality: (1*R*,2*S*)-norephedrine
Absolute configuration: (1*R*,2*S*)

Raleigh W. Parrott, II and Shawn R. Hitchcock*

*Tetrahedron:* Asymmetry *19 (2008) 19*




$C_{12}H_{19}NO$

(1*R*,2*S*)-2-(Benzylamino)-1-phenyl-1-propanol

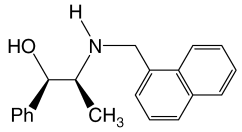
$[\alpha]_D^{25} = +10.3$ (*c* 1.28, $CHCl_3$)

Source of chirality: (1*S*,2*R*)-norephedrine

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

Raleigh W. Parrott, II and Shawn R. Hitchcock*

*Tetrahedron:* Asymmetry *19 (2008) 19*




$C_{20}H_{21}NO$

(1*R*,2*S*)-2-(Naphthalen-1′-ylmethylamino)-1-phenylpropan-1-ol

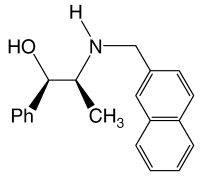
$[\alpha]_D^{26} = -28.2$ (*c* 0.59, $CHCl_3$)

Source of chirality: (1*R*,2*S*)-norephedrine

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

Raleigh W. Parrott, II and Shawn R. Hitchcock*

*Tetrahedron:* Asymmetry *19 (2008) 19*




$C_{20}H_{21}NO$

(1*R*,2*S*)-2-(Naphthalen-2′-ylmethylamino)-1-phenylpropan-1-ol

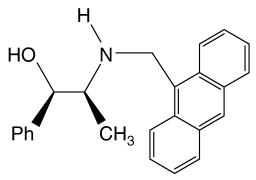
$[\alpha]_D^{25} = -11.4$ (*c* 0.64, $CHCl_3$)

Source of chirality: (1*R*,2*S*)-norephedrine

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

Raleigh W. Parrott, II and Shawn R. Hitchcock*

*Tetrahedron:* Asymmetry *19 (2008) 19*




$C_{24}H_{23}NO$

(1*R*,2*S*)-2-(Anthracen-9′-ylmethylamino)-1-phenylpropan-1-ol

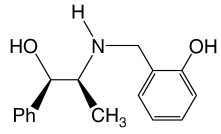
$[\alpha]_D^{25} = -71.5$ (*c* 0.55, $CHCl_3$)

Source of chirality: (1*R*,2*S*)-norephedrine

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

Raleigh W. Parrott, II and Shawn R. Hitchcock*

*Tetrahedron:* Asymmetry *19 (2008) 19*



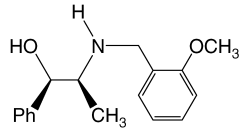

$C_{16}H_{19}NO_2$

2-{[(1*R*,2*S*)-1-Hydroxyl-1-phenylpropan-2-ylamino]methyl}phenol

$[\alpha]_D^{25} = +11.2$ (*c* 0.57, $CHCl_3$)
Source of chirality: (1*R*,2*S*)-norephedrine
Absolute configuration: (1*R*,2*S*)

Raleigh W. Parrott, II and Shawn R. Hitchcock*

*Tetrahedron:* Asymmetry *19 (2008) 19*



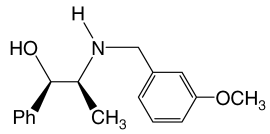

$C_{17}H_{21}NO_2$

(1*R*,2*S*)-2-(2′-Methoxybenzylamino)-1-phenylpropan-1-ol

$[\alpha]_D^{25} = -17.6$ (*c* 0.62, $CHCl_3$)
Source of chirality: (1*R*,2*S*)-norephedrine
Absolute configuration: (1*R*,2*S*)

Raleigh W. Parrott, II and Shawn R. Hitchcock*

*Tetrahedron:* Asymmetry *19 (2008) 19*



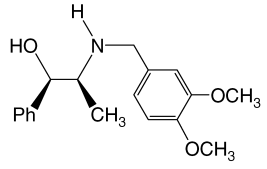

$C_{17}H_{21}NO_2$

(1*R*,2*S*)-2-(3′-Methoxybenzylamino)-1-phenylpropan-1-ol

$[\alpha]_D^{25} = -11.9$ (*c* 0.63, $CHCl_3$)
Source of chirality: (1*R*,2*S*)-norephedrine
Absolute configuration: (1*R*,2*S*)

Raleigh W. Parrott, II and Shawn R. Hitchcock*

*Tetrahedron:* Asymmetry *19 (2008) 19*



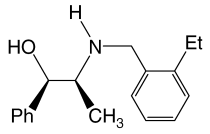

$C_{18}H_{24}NO_3$

(1*R*,2*S*)-2-(3′,4′-Dimethoxybenzylamino)-1-phenylpropan-1-ol

$[\alpha]_D^{25} = -11.2$ (*c* 0.60, $CHCl_3$)
Source of chirality: (1*R*,2*S*)-norephedrine
Absolute configuration: (1*R*,2*S*)

Raleigh W. Parrott, II and Shawn R. Hitchcock*

*Tetrahedron:* Asymmetry *19 (2008) 19*




$C_{18}H_{23}NO$

(1*R*,2*S*)-2-(2′-Ethylbenzylamino)-1-phenylpropan-1-ol

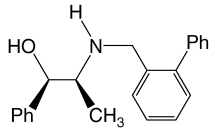
$[\alpha]_D^{25} = -22.2$ (*c* 0.43, $CHCl_3$)

Source of chirality: (1*R*,2*S*)-norephedrine

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

Raleigh W. Parrott, II and Shawn R. Hitchcock*

*Tetrahedron:* Asymmetry *19 (2008) 19*




$C_{22}H_{23}NO$

(1*R*,2*S*)-2-(*o*-Biphenylmethylamino)-1-phenylpropan-1-ol

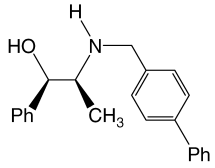
$[\alpha]_D^{25} = -12.7$ (*c* 0.51, $CHCl_3$)

Source of chirality: (1*R*,2*S*)-norephedrine

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

Raleigh W. Parrott, II and Shawn R. Hitchcock*

*Tetrahedron:* Asymmetry *19 (2008) 19*




$C_{22}H_{23}NO$

(1*R*,2*S*)-2-(*p*-Biphenylmethylamino)-1-phenylpropan-1-ol

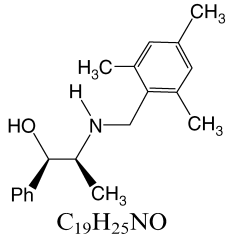
$[\alpha]_D^{25} = -22.9$ (*c* 0.61, $CHCl_3$)

Source of chirality: (1*R*,2*S*)-norephedrine

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

Raleigh W. Parrott, II and Shawn R. Hitchcock*

*Tetrahedron:* Asymmetry *19 (2008) 19*




$C_{19}H_{25}NO$

(1*R*,2*S*)-1-Phenyl-2-(2′,4′,6′-trimethylbenzylamino)propan-1-ol

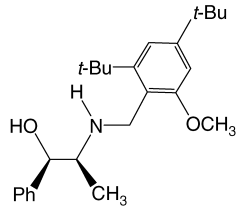
$[\alpha]_D^{25} = -32.7$ (*c* 0.61, $CHCl_3$)

Source of chirality: (1*R*,2*S*)-norephedrine

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

Raleigh W. Parrott, II and Shawn R. Hitchcock*

*Tetrahedron:* Asymmetry *19 (2008) 19*



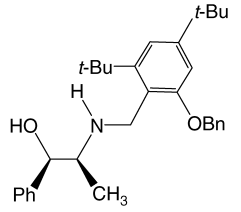

$C_{25}H_{37}NO_2$

$[\alpha]_D^{25} = +1.7$ ($c$ 0.56, $CHCl_3$)
Source of chirality: (1*R*,2*S*)-norephedrine
Absolute configuration: (1*R*,2*S*)

(1*R*,2*S*)-2-(3′,5′-Di-*tert*-butyl-2′-methoxybenzylamino)-1-phenylpropan-1-ol

Raleigh W. Parrott, II and Shawn R. Hitchcock*

*Tetrahedron:* Asymmetry *19 (2008) 19*



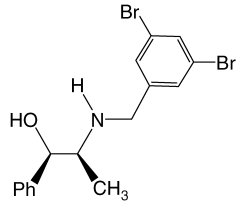

$C_{31}H_{41}NO_2$

$[\alpha]_D^{25} = -2.7$ ($c$ 0.61, $CHCl_3$)
Source of chirality: (1*R*,2*S*)-norephedrine
Absolute configuration: (1*R*,2*S*)

(1*R*,2*S*)-2-(2′-(Benzyloxy)-3′,5′-di-*tert*-butyl-2′-methoxybenzylamino)-1-phenylpropan-1-ol

Raleigh W. Parrott, II and Shawn R. Hitchcock*

*Tetrahedron:* Asymmetry *19 (2008) 19*



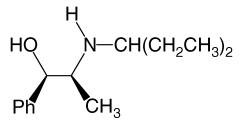

$C_{16}H_{17}NOBr_2$

$[\alpha]_D^{25} = -5.4$ ($c$ 0.81, $CHCl_3$)
Source of chirality: (1*R*,2*S*)-norephedrine
Absolute configuration: (1*R*,2*S*)

(1*R*,2*S*)-2-(3,5-Dibromobenzylamino)-1-phenylpropan-1-ol

Raleigh W. Parrott, II and Shawn R. Hitchcock*

*Tetrahedron:* Asymmetry *19 (2008) 19*



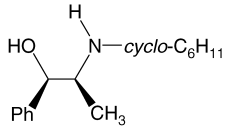

$C_{14}H_{23}NO$

$[\alpha]_D^{25} = -8.8$ ($c$ 0.61, $CHCl_3$)
Source of chirality: (1*R*,2*S*)-norephedrine
Absolute configuration: (1*R*,2*S*)

(1*R*,2*S*)-2-(Pentan-3′-ylamino)-1-phenylpropan-1-ol

Raleigh W. Parrott, II and Shawn R. Hitchcock*

*Tetrahedron:* Asymmetry *19 (2008) 19*




$C_{15}H_{23}NO$

(1*R*,2*S*)-2-Cyclohexylamino-1-phenyl-1-propanol

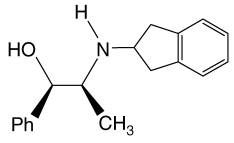
$[\alpha]_D^{25} = +8.1$ (*c* 0.60, $CHCl_3$)

Source of chirality: (1*R*,2*S*)-norephedrine

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

Raleigh W. Parrott, II and Shawn R. Hitchcock*

*Tetrahedron:* Asymmetry *19 (2008) 19*




$C_{18}H_{21}NO$

(1*R*,2*S*)-2-(2,3-Dihydro-1*H*-inden-2-ylamino)-1-phenylpropan-1-ol

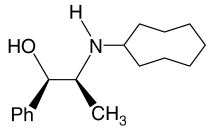
$[\alpha]_D^{25} = -22.2$ (*c* 0.18, $CHCl_3$)

Source of chirality: (1*R*,2*S*)-norephedrine

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

Raleigh W. Parrott, II and Shawn R. Hitchcock*

*Tetrahedron:* Asymmetry *19 (2008) 19*




$C_{17}H_{27}NO$

(1*R*,2*S*)-2-(Cyclooctylamino)-1-phenylpropan-1-ol

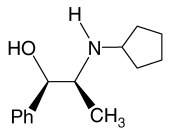
$[\alpha]_D^{25} = +27.7$ (*c* 0.10, $CHCl_3$)

Source of chirality: (1*R*,2*S*)-norephedrine

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

Raleigh W. Parrott, II and Shawn R. Hitchcock*

*Tetrahedron:* Asymmetry *19 (2008) 19*




$C_{14}H_{21}NO$

(1*R*,2*S*)-2-(Cyclopentylamino)-1-phenylpropan-1-ol

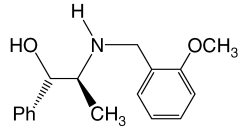
$[\alpha]_D^{25} = -2.8$ (*c* 0.70, $CHCl_3$)

Source of chirality: (1*R*,2*S*)-norephedrine

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

Raleigh W. Parrott, II and Shawn R. Hitchcock*

*Tetrahedron:* Asymmetry *19 (2008) 19*




$C_{17}H_{21}NO_2$

(1*S*,2*S*)-2-(2′-Methoxybenzylamino)-1-phenylpropan-1-ol

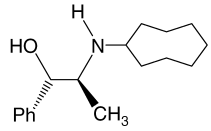
$[\alpha]_D^{25} = +87.1$ (*c* 0.64, $CHCl_3$)

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

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

Raleigh W. Parrott, II and Shawn R. Hitchcock*

*Tetrahedron:* Asymmetry *19 (2008) 19*




$C_{17}H_{27}NO$

(1*S*,2*S*)-2-(Cyclooctylamino)-1-phenylpropan-1-ol

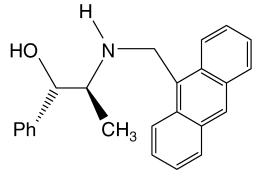
$[\alpha]_D^{25} = +84.8$ (*c* 0.91, $CHCl_3$)

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

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

Raleigh W. Parrott, II and Shawn R. Hitchcock*

*Tetrahedron:* Asymmetry *19 (2008) 19*




$C_{14}H_{21}NO$

(1*R*,2*S*)-2-(Cyclopentylamino)-1-phenylpropan-1-ol

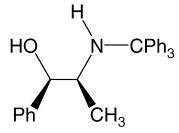
$[\alpha]_D^{25} = +133.9$ (*c* 0.66, $CHCl_3$)

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

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

Raleigh W. Parrott, II and Shawn R. Hitchcock*

*Tetrahedron:* Asymmetry *19 (2008) 19*




$C_{28}H_{27}NO$

(1*R*,2*S*)-1-Phenyl-2-(tritylamino)propan-1-ol

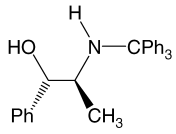
$[\alpha]_D^{25} = +74.5$ (*c* 0.64, $CHCl_3$)

Source of chirality: (1*R*,2*S*)-norephedrine

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

Raleigh W. Parrott, II and Shawn R. Hitchcock*

*Tetrahedron:* Asymmetry *19 (2008) 19*

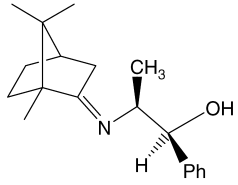



$[\alpha]_D^{25} = -0.2$ (*c* 0.72, $CHCl_3$)
Source of chirality: (1*S*,2*S*)-norephedrine
Absolute configuration: (1*S*,2*S*)

$C_{28}H_{27}NO$
(1*S*,2*S*)-1-Phenyl-2-(tritylamino)propan-1-ol

Raleigh W. Parrott, II and Shawn R. Hitchcock*

*Tetrahedron:* Asymmetry *19 (2008) 19*

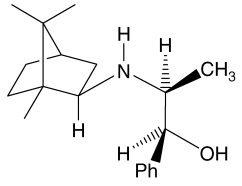



$[\alpha]_D^{25} = +90.3$ (*c* 1.0, $CHCl_3$)
Source of chirality: (1*S*,2*S*)-norephedrine, D-camphor
Absolute configuration: (1*S*,2*S*)

$C_{19}H_{30}NO$
(1*S*,2*S*)-1-Phenyl-2-(1,7,7-trimethylbicyclo[2.2.1]heptan-2-ylideneamino)-1-propanol

Raleigh W. Parrott, II and Shawn R. Hitchcock*

*Tetrahedron:* Asymmetry *19 (2008) 19*

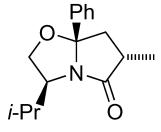



$[\alpha]_D^{25} = +144.4$ (*c* 1.0, $CHCl_3$)
Source of chirality: (1*S*,2*S*)-norephedrine, D-camphor
Absolute configuration: (1*S*,2*S*)

$C_{19}H_{29}NO$
(1*S*,2*S*)-1-Phenyl-2-(1,7,7-trimethylbicyclo[2.2.1]heptan-2-ylamino)-1-propanol

Paul T. Buonora,* Qun Zhang, Jennifer Sawko and Larry J. Westrum

*Tetrahedron:* Asymmetry *19 (2008) 27*

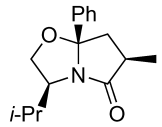



$[\alpha]_D^{22.2} = +37.1$ (*c* 1.7, $CHCl_3$)
Source of chirality: (*S*)-valinol
Absolute configuration: (3*S*,6*S*,7a*S*)

$C_{16}H_{21}NO_2$
(3*S*,6*S*,7a*S*)-Tetrahydro-6-methyl-3-(1-methylethyl)-7a-phenyl-pyrrolo[2,1-b]oxazol-5(6*H*)-one

Paul T. Buonora,* Qun Zhang, Jennifer Sawko and Larry J. Westrum

*Tetrahedron:* Asymmetry *19 (2008) 27*

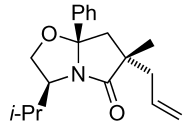



$[\alpha]_D^{22.2} = +41.2$ (*c* 1.7, $CHCl_3$)
Source of chirality: (*S*)-valinol
Absolute configuration: (3*S*,6*R*,7a*S*)

$C_{17}H_{23}NO_2$
(3*S*,6*R*,7a*S*)-Tetrahydro-6-methyl-3-(1-methylethyl)-7a-phenyl-pyrrolo[2,1-b]oxazol-5(6*H*)-one

Paul T. Buonora,* Qun Zhang, Jennifer Sawko and Larry J. Westrum

*Tetrahedron:* Asymmetry *19 (2008) 27*

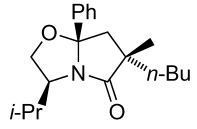



$[\alpha]_D^{21.6} = +2.5$ (*c* 1.44, $CHCl_3$)
Source of chirality: (*S*)-valinol
Absolute configuration: (3*S*,6*S*,7a*S*)

$C_{19}H_{25}NO_2$
(3*S*,6*S*,7a*S*)-Tetrahydro-6-(2-propenyl)-6-methyl-3-(1-methylethyl)-7a-phenyl-pyrrolo[2,1-b]oxazol-5(6*H*)-one

Paul T. Buonora,* Qun Zhang, Jennifer Sawko and Larry J. Westrum

*Tetrahedron:* Asymmetry *19 (2008) 27*

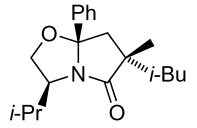



$[\alpha]_D^{20.6} = +4.5$ (*c* 1.7, $CHCl_3$)
Source of chirality: (*S*)-valinol
Absolute configuration: (3*S*,6*S*,7a*S*)

$C_{20}H_{29}NO_2$
(3*S*,6*S*,7a*S*)-Tetrahydro-6-butyl-6-methyl-3-(1-methylethyl)-7a-phenyl-pyrrolo[2,1-b]oxazol-5(6*H*)-one

Paul T. Buonora,* Qun Zhang, Jennifer Sawko and Larry J. Westrum

*Tetrahedron:* Asymmetry *19 (2008) 27*

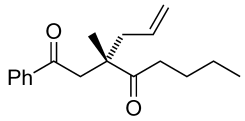



$[\alpha]_D^{20.7} = +6.9$ (*c* 1.5, $CHCl_3$)
Source of chirality: (*S*)-valinol
Absolute configuration: (3*S*,6*S*,7a*S*)

$C_{20}H_{29}NO_2$
(3*S*,6*S*,7a*S*)-Tetrahydro-6-methyl-3-(1-methylethyl)-6-(2-methylpropyl)-7a-phenyl-pyrrolo[2,1-b]oxazol-5(6*H*)-one

Paul T. Buonora,* Qun Zhang, Jennifer Sawko and Larry J. Westrum

*Tetrahedron:* Asymmetry *19 (2008) 27*

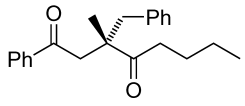


$[\alpha]_D^{20.6} = +36.8$ (*c* 0.7, $CHCl_3$)
Source of chirality: (*S*)-valinol
Absolute configuration: (3*S*)

$C_{18}H_{24}O_2$
(3*S*)-3-Methyl-3-(2-propenyl)-1-phenyl-1,4-octanedione

Paul T. Buonora,* Qun Zhang, Jennifer Sawko and Larry J. Westrum

*Tetrahedron:* Asymmetry *19 (2008) 27*

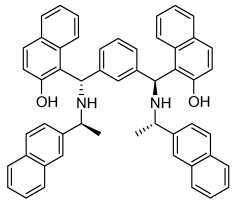


$[\alpha]_D^{20.6} = -20.6$ (*c* 2.8, $CHCl_3$)
Source of chirality: (*S*)-valinol
Absolute configuration: (3*S*)

$C_{22}H_{24}O_2$
(3*S*)-3-Methyl-3-(2-phenylmethyl)-1-phenyl-1,4-octanedione

Fengnian Ma, Xiumin Shen, Jie Ou-Yang, Zhiwei Deng and Cong Zhang*

*Tetrahedron:* Asymmetry *19 (2008) 31*

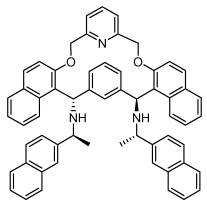


$[\alpha]_D^{20} = +280.0$ (*c* 0.51, THF)
Source of chirality: (*S*)-α-(2-naphthyl)-ethylamine
Absolute configuration: (*S*,*S*,*S*,*S*)

$C_{52}H_{44}N_2O_2$
1,1′-[1,3-Phenylenebis[(*S*)-[[(1*S*)-1-(2-naphthyl)ethyl]amino]methylene]]bis-(2-naphthalenol)

Fengnian Ma, Xiumin Shen, Jie Ou-Yang, Zhiwei Deng and Cong Zhang*

*Tetrahedron:* Asymmetry *19 (2008) 31*

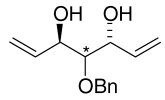


$[\alpha]_D^{20} = +19.6$ (*c* 0.23, THF)
Source of chirality: (*S*)-α-(2-naphthyl)-ethylamine
Absolute configuration: (*S*,*S*,*S*,*S*)

$C_{59}H_{49}N_3O_2$
(12*S*,18*S*)-N12,N18-Bis[(1*S*)-1-(2-naphthyl)ethyl]-{2H,8H,12H,18H-13,17-metheno-3,7-nitrilo-dinaphtho[2,1-j:1′,2′-s][1,9]-dioxacycloeicosin-12,18-diamine}

Peter Kapitán and Tibor Gracza*

*Tetrahedron:* Asymmetry *19 (2008) 38*




$C_{14}H_{18}O_3$

(3*R*,5*R*)-4-Benzyloxyhepta-1,6-diene-3,5-diol

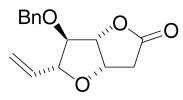
$[\alpha]_D^{20} = +45$ (*c* 0.50, $CHCl_3$)

Source of chirality: D-arabitol as starting material

Absolute configuration: (3*R*,5*R*), (D-*arabino*)

Peter Kapitán and Tibor Gracza*

*Tetrahedron:* Asymmetry *19 (2008) 38*




$C_{15}H_{16}O_4$

(1*R*,5*S*,7*R*,8*R*)-8-Benzyloxy-7-vinyl-2,6-dioxabicyclo[3.3.0]octan-3-one

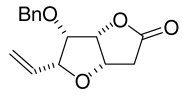
$[\alpha]_D^{20} = -29$ (*c* 1.46, $CHCl_3$)

Source of chirality: D-arabitol as starting material

Absolute configuration: (1*R*,5*S*,7*R*,8*R*), (D-*gluco*)

Peter Kapitán and Tibor Gracza*

*Tetrahedron:* Asymmetry *19 (2008) 38*




$C_{15}H_{16}O_4$

(1*R*,5*S*,7*R*,8*S*)-8-Benzyloxy-7-vinyl-2,6-dioxabicyclo[3.3.0]octan-3-one

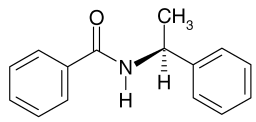
$[\alpha]_D^{20} = -74$ (*c* 0.15, $CHCl_3$)

Source of chirality: D-arabitol as starting material

Absolute configuration: (1*R*,5*S*,7*R*,8*S*), (D-*galacto*)

Anil V. Karnik* and Suchitra S. Kamath

*Tetrahedron:* Asymmetry *19 (2008) 45*




$C_{15}H_{15}NO$

(*S*)-*N*-Benzoyl-1-phenylethylamine

Ee = 89.9%

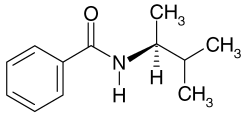
$[\alpha]_D^{19} = -17.9$ (*c* 1, $CHCl_3$)

Source of chirality: kinetic resolution

Absolute configuration: (*S*)

Anil V. Karnik* and Suchitra S. Kamath

*Tetrahedron:* Asymmetry *19 (2008) 45*



$C_{12}H_{17}NO$

(*S*)-*N*-Benzoyl-3-methyl-2-butylamine

Ee = 82.8%

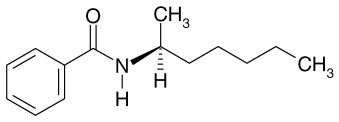
$[\alpha]_D^{19} = +12.4$ (*c* 1, $CHCl_3$)

Source of chirality: kinetic resolution

Absolute configuration: (*S*)

Anil V. Karnik* and Suchitra S. Kamath

*Tetrahedron:* Asymmetry *19 (2008) 45*



$C_{14}H_{21}NO$

(*S*)-*N*-Benzoyl-2-heptylamine

Ee = 83.2%

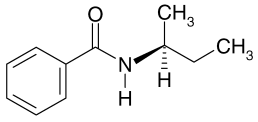
$[\alpha]_D^{19} = +14.6$ (*c* 1, $CHCl_3$)

Source of chirality: kinetic resolution

Absolute configuration: (*S*)

Anil V. Karnik* and Suchitra S. Kamath

*Tetrahedron:* Asymmetry *19 (2008) 45*



$C_{11}H_{15}NO$

(*S*)-*N*-Benzoyl-2-butylamine

Ee = 83.3%

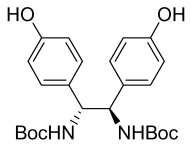
$[\alpha]_D^{19} = +12.5$ (*c* 1, $CHCl_3$)

Source of chirality: kinetic resolution

Absolute configuration: (*S*)

Miyuki Takahashi, Naoki Haraguchi and Shinichi Itsuno*

*Tetrahedron:* Asymmetry *19 (2008) 60*



$C_{24}H_{23}N_2O_6$

(*R*,*R*)-*N*,*N*′-DiBoc-1,2-bis(*p*-hydroxyphenyl)-1,2-diaminoethane

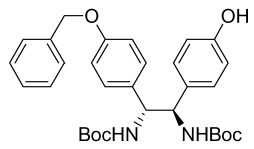
$[\alpha]_D = -3.8$ (*c* 1.07, $CH_3OH$)

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

Source of chirality: optical resolution

Miyuki Takahashi, Naoki Haraguchi and Shinichi Itsuno*

*Tetrahedron:* Asymmetry *19 (2008) 60*

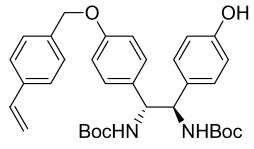



$[\alpha]_D = -15.0$ (*c* 1.00, $CHCl_3$)
Absolute configuration: (1*R*,2*R*)
Source of chirality: (*R*,*R*)-*N*,*N*′-diBoc-1,2-bis-(*p*-hydroxyphenyl)-1,2-diaminoethane

$C_{33}H_{40}N_2O_6$
(*R*,*R*)-*N*,*N*′-DiBoc-1-(*p*-hydroxyphenyl)-2-(*p*-benzyloxyphenyl)-1,2-diaminoethane

Miyuki Takahashi, Naoki Haraguchi and Shinichi Itsuno*

*Tetrahedron:* Asymmetry *19 (2008) 60*

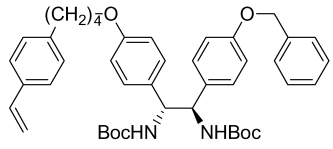



$[\alpha]_D = -15.7$ (*c* 1.00, $CHCl_3$)
Absolute configuration: (1*R*,2*R*)
Source of chirality: (*R*,*R*)-*N*,*N*′-diBoc-1,2-bis-(*p*-hydroxyphenyl)-1,2-diaminoethanes

$C_{33}H_{40}N_2O_6$
(*R*,*R*)-*N*,*N*′-DiBoc-1-(*p*-hydroxyphenyl)-2-(*p*-(*p*-vinylbenzyloxy)phenyl)-1,2-diaminoethane

Miyuki Takahashi, Naoki Haraguchi and Shinichi Itsuno*

*Tetrahedron:* Asymmetry *19 (2008) 60*

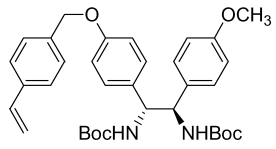



$[\alpha]_D = -1.9$ (*c* 1.00, $CHCl_3$)
Absolute configuration: (1*R*,2*R*)
Source of chirality: (*R*,*R*)-*N*,*N*′-diBoc-1,2-bis-(*p*-hydroxyphenyl)-1,2-diaminoethane

$C_{43}H_{52}N_2O_6$
(*R*,*R*)-*N*,*N*′-DiBoc-1-(*p*-(*p*-benzyloxy)phenyl)-2-(*p*-(*p*-vinylphenylbutyloxy)-phenyl)-1,2-diaminoethane

Miyuki Takahashi, Naoki Haraguchi and Shinichi Itsuno*

*Tetrahedron:* Asymmetry *19 (2008) 60*

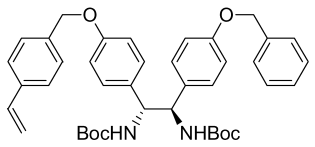



$[\alpha]_D = -4.2$ (*c* 1.00, $CHCl_3$)
Absolute configuration: (1*R*,2*R*)
Source of chirality: (*R*,*R*)-*N*,*N*′-diBoc-1,2-bis-(*p*-hydroxyphenyl)-1,2-diaminoethane

$C_{34}H_{42}N_2O_6$
(*R*,*R*)-*N*,*N*′-DiBoc-1-(*p*-methoxyphenyl)-2-(*p*-(*p*-vinylbenzyloxy)phenyl)-1,2-diaminoethane

Miyuki Takahashi, Naoki Haraguchi and Shinichi Itsuno*

*Tetrahedron:* Asymmetry *19 (2008) 60*

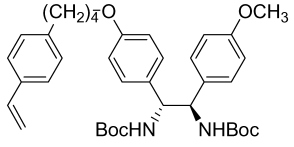



$[\alpha]_D = -4.1$ (*c* 0.90, $CHCl_3$)
Absolute configuration: (1*R*,2*R*)
Source of chirality: (*R*,*R*)-*N*,*N*′-diBoc-1,2-bis-(*p*-hydroxyphenyl)-1,2-diaminoethane

$C_{40}H_{46}N_2O_6$
(*R*,*R*)-*N*,*N*′-DiBoc-1-(*p*-(*p*-benzyloxy)phenyl)-2-(*p*-(*p*-vinylbenzyloxy)phenyl)-1,2-diaminoethane

Miyuki Takahashi, Naoki Haraguchi and Shinichi Itsuno*

*Tetrahedron:* Asymmetry *19 (2008) 60*

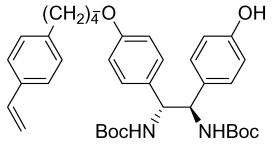



$[\alpha]_D = -6.5$ (*c* 1.00, $CHCl_3$)
Absolute configuration: (1*R*,2*R*)
Source of chirality: (*R*,*R*)-*N*,*N*′-diBoc-1,2-bis (*p*-hydroxyphenyl)-1,2-diaminoethane

$C_{37}H_{48}N_2O_6$
(*R*,*R*)-*N*,*N*′-DiBoc-1-(*p*-methoxyphenyl)-2-(*p*-(*p*-vinylphenylbutyloxy)phenyl)-1,2-diaminoethane

Miyuki Takahashi, Naoki Haraguchi and Shinichi Itsuno*

*Tetrahedron:* Asymmetry *19 (2008) 60*

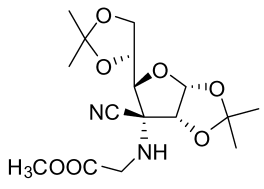



$[\alpha]_D = -9.6$ (*c* 1.00, $CHCl_3$)
Absolute configuration: (1*R*,2*R*)
Source of chirality: (*R*,*R*)-*N*,*N*′-diBoc-1,2-bis-(*p*-hydroxyphenyl)-1,2-diaminoethane

$C_{36}H_{46}N_2O_6$
(*R*,*R*)-*N*,*N*′-DiBoc-1-(*p*-hydroxyphenyl)-2-(*p*-(*p*-vinylphenylbutyloxy)phenyl)-1,2-diaminoethane

Hélène Ducatel, Albert Nguyen Van Nhien and Denis Postel*

*Tetrahedron:* Asymmetry *19 (2008) 67*

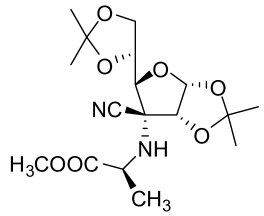



$[\alpha]_D^{25} = +30.8$ (*c* 1.20, $CHCl_3$)
Source of chirality: chemical reaction
Absolute configuration: (1*R*,2*R*,3*R*,4*R*,5*R*)

$C_{16}H_{24}N_2O_7$
3-*C*-Cyano-3-deoxy-1,2:5,6-di-*O*-isopropylidene-3-[[(methoxycarbonyl)methyl]amino]-α-D-allofuranose

Hélène Ducatel, Albert Nguyen Van Nhien and Denis Postel*

*Tetrahedron:* Asymmetry *19 (2008) 67*



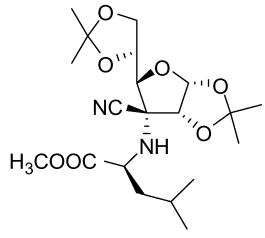
$[\alpha]_D^{25} = +8.8$ ($c$ 1.09, $CHCl_3$)
Source of chirality: chemical reaction
Absolute configuration: (1*R*,2*R*,3*R*,4*R*,5*R*,*S*)

$C_{17}H_{26}N_2O_7$

3-*C*-Cyano-3-deoxy-1,2:5,6-di-*O*-isopropylidene-3-[[(*S*)-1-(methoxycarbonyl)ethyl]amino]-α-D-allofuranose

Hélène Ducatel, Albert Nguyen Van Nhien and Denis Postel*

*Tetrahedron:* Asymmetry *19 (2008) 67*



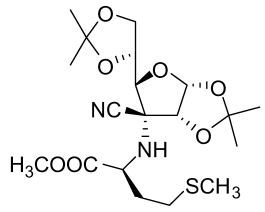
$[\alpha]_D^{20} = -2.0$ ($c$ 1.00, $CHCl_3$)
Source of chirality: chemical reaction
Absolute configuration: (1*R*,2*R*,3*R*,4*R*,5*R*,*S*)

$C_{20}H_{32}N_2O_7$

3-*C*-Cyano-3-deoxy-1,2:5,6-di-*O*-isopropylidene-3-[[(*S*)-1-(methoxycarbonyl)-3-methyl butyl]amino]-α-D-allofuranose

Hélène Ducatel, Albert Nguyen Van Nhien and Denis Postel*

*Tetrahedron:* Asymmetry *19 (2008) 67*



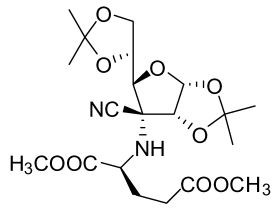
$[\alpha]_D^{20} = +8.0$ ($c$ 1.60, $CHCl_3$)
Source of chirality: chemical reaction
Absolute configuration: (1*R*,2*R*,3*R*,4*R*,5*R*,*S*)

$C_{19}H_{30}N_2O_7S$

3-*C*-Cyano-3-deoxy-1,2:5,6-di-*O*-isopropylidene-3-[[(*S*)-1-(methoxycarbonyl)-3-methyl thio-propyl]amino]-α-D-allofuranose

Hélène Ducatel, Albert Nguyen Van Nhien and Denis Postel*

*Tetrahedron:* Asymmetry *19 (2008) 67*



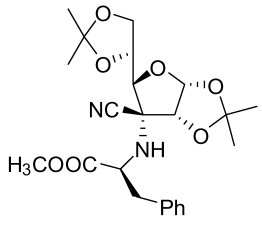
$[\alpha]_D^{20} = +22.0$ ($c$ 1.55, $CHCl_3$)
Source of chirality: chemical reaction
Absolute configuration: (1*R*,2*R*,3*R*,4*R*,5*R*,*S*)

$C_{20}H_{30}N_2O_9$

3-*C*-Cyano-3-deoxy-1,2:5,6-di-*O*-isopropylidene-3-[[(*S*)-(1,3)-di-(methoxycarbonyl)propyl]amino]-α-D-allofuranose

Hélène Ducatel, Albert Nguyen Van Nhien and Denis Postel*

*Tetrahedron:* Asymmetry *19 (2008) 67*



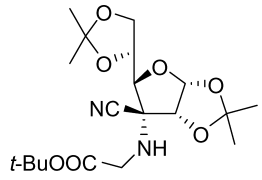
$[\alpha]_D^{20} = +16$ ($c$ 0.21, $CHCl_3$)
Source of chirality: chemical reaction
Absolute configuration: (1*R*,2*R*,3*R*,4*R*,5*R*,*S*)

$C_{23}H_{30}N_2O_7$

3-*C*-Cyano-3-deoxy-1,2:5,6-di-*O*-isopropylidene-3-[[(*S*)-1-(methoxycarbonyl)-2-phenylethyl]amino]-α-D-allofuranose

Hélène Ducatel, Albert Nguyen Van Nhien and Denis Postel*

*Tetrahedron:* Asymmetry *19 (2008) 67*



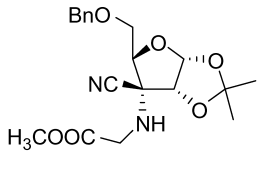
$[\alpha]_D^{28} = +18.7$ ($c$ 0.33, $CHCl_3$)
Source of chirality: chemical reaction
Absolute configuration: (1*R*,2*R*,3*R*,4*R*,5*R*)

$C_{19}H_{30}N_2O_7$

3-*C*-Cyano-3-deoxy-1,2:5,6-di-*O*-isopropylidene-3-[[(*tert*-butoxycarbonyl)methyl]amino]-α-D-allofuranose

Hélène Ducatel, Albert Nguyen Van Nhien and Denis Postel*

*Tetrahedron:* Asymmetry *19 (2008) 67*



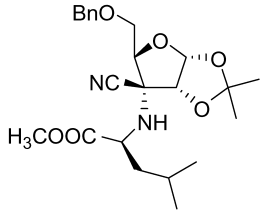
$[\alpha]_D^{29} = +29.6$ ($c$ 0.63, $CHCl_3$)
Source of chirality: chemical reaction
Absolute configuration: (1*R*,2*R*,3*R*,4*R*)

$C_{19}H_{24}N_2O_6$

5-*O*-Benzyl-3-*C*-cyano-3-deoxy-1,2-*O*-isopropylidene-3-[[(methoxycarbonyl)methyl]amino]-α-D-ribofuranose

Hélène Ducatel, Albert Nguyen Van Nhien and Denis Postel*

*Tetrahedron:* Asymmetry *19 (2008) 67*



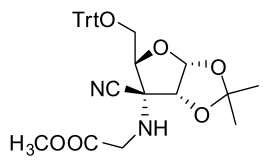
$[\alpha]_D^{20} = -11.0$ ($c$ 1.80, $CHCl_3$)
Source of chirality: chemical reaction
Absolute configuration: (1*R*,2*R*,3*R*,4*R*,*S*)

$C_{23}H_{32}N_2O_6$

5-*O*-Benzyl-3-*C*-cyano-3-deoxy-1,2-*O*-isopropylidene-3-[[(*S*)-1-(methoxycarbonyl)-3-methylbutyl]amino]-α-D-ribofuranose

Hélène Ducatel, Albert Nguyen Van Nhien and Denis Postel*

*Tetrahedron:* Asymmetry *19 (2008) 67*




$[\alpha]_D^{25} = +20.6$ (*c* 1.00, $CHCl_3$)
Source of chirality: chemical reaction
Absolute configuration: (1*R*,2*R*,3*R*,4*R*)

$C_{31}H_{32}N_2O_6$

3-*C*-Cyano-3-deoxy-1,2-*O*-isopropylidene-3-[[(methoxycarbonyl)methyl]amino]-5-*O*-trityl-α-D-ribofuranose

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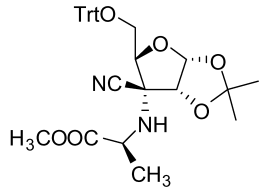
Hélène Ducatel, Albert Nguyen Van Nhien and Denis Postel*

*Tetrahedron:* Asymmetry *19 (2008) 67*




$[\alpha]_D^{25} = -24.9$ (*c* 1.18, $CHCl_3$)
Source of chirality: chemical reaction
Absolute configuration: (1*R*,2*R*,3*R*,4*R*,*S*)

$C_{32}H_{34}N_2O_6$

3-*C*-Cyano-3-deoxy-1,2-*O*-isopropylidene-3-[[(*S*)-1-(methoxycarbonyl)ethyl]amino]-5-*O*-trityl-α-D-ribofuranose

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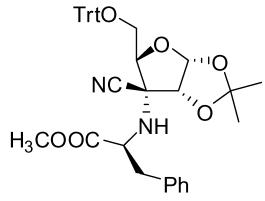
Hélène Ducatel, Albert Nguyen Van Nhien and Denis Postel*

*Tetrahedron:* Asymmetry *19 (2008) 67*




$[\alpha]_D^{20} = +32.0$ (*c* 0.21, $CHCl_3$)
Source of chirality: chemical reaction
Absolute configuration: (1*R*,2*R*,3*R*,4*R*,*S*)

$C_{38}H_{38}N_2O_6$

3-*C*-Cyano-3-deoxy-1,2-*O*-isopropylidene-3-[[(*S*)-1-(methoxycarbonyl)-2-phenylethyl] amino]-5-*O*-trityl-α-D-ribofuranose

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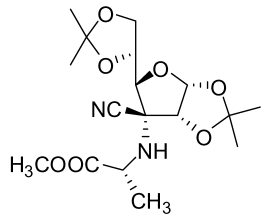
Hélène Ducatel, Albert Nguyen Van Nhien and Denis Postel*

*Tetrahedron:* Asymmetry *19 (2008) 67*



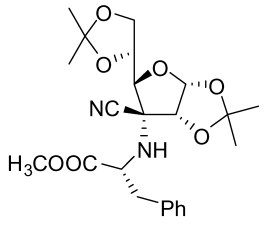

$[\alpha]_D^{20} = +30$ (*c* 0.26, $CHCl_3$)
Source of chirality: chemical reaction
Absolute configuration: (1*R*,2*R*,3*R*,4*R*,5*R*,*R*)

$C_{17}H_{26}N_2O_7$

3-*C*-Cyano-3-deoxy-1,2:5,6-di-*O*-isopropylidene-3-[[(*R*)-1-(methoxycarbonyl)ethyl]amino]-α-D-allofuranose

Hélène Ducatel, Albert Nguyen Van Nhien and Denis Postel*

*Tetrahedron:* Asymmetry *19 (2008) 67*



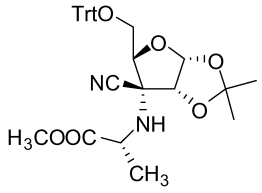
$[\alpha]_D^{20} = -36.6$ ($c$ 0.50, $CHCl_3$)
Source of chirality: chemical reaction
Absolute configuration: (1*R*,2*R*,3*R*,4*R*,5*R*,*R*)

$C_{23}H_{30}N_2O_7$

3-*C*-Cyano-3-deoxy-1,2:5,6-di-*O*-isopropylidene-3-[[(*R*)-1-(methoxycarbonyl)-2-phenylethyl]amino]-α-D-allofuranose

Hélène Ducatel, Albert Nguyen Van Nhien and Denis Postel*

*Tetrahedron:* Asymmetry *19 (2008) 67*



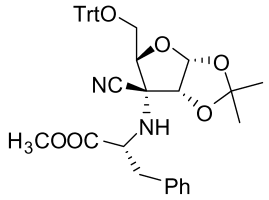
$[\alpha]_D^{20} = +36.2$ ($c$ 0.50, $CHCl_3$)
Source of chirality: chemical reaction
Absolute configuration: (1*R*,2*R*,3*R*,4*R*,*R*)

$C_{32}H_{34}N_2O_6$

3-*C*-Cyano-3-deoxy-1,2-*O*-isopropylidene-3-[[(*R*)-1-(methoxycarbonyl)ethyl]amino]-5-*O*-trityl-α-D-ribofuranose

Hélène Ducatel, Albert Nguyen Van Nhien and Denis Postel*

*Tetrahedron:* Asymmetry *19 (2008) 67*



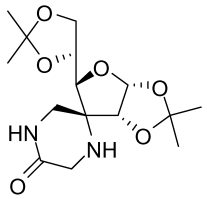
$[\alpha]_D^{20} = -22.0$ ($c$ 0.17, $CHCl_3$)
Source of chirality: chemical reaction
Absolute configuration: (1*R*,2*R*,3*R*,4*R*,*R*)

$C_{38}H_{38}N_2O_6$

3-*C*-Cyano-3-deoxy-1,2-*O*-isopropylidene-3-[[(*R*)-1-(methoxycarbonyl)-2-phenylethyl]amino]-5-*O*-trityl-α-D-ribofuranose

Hélène Ducatel, Albert Nguyen Van Nhien and Denis Postel*

*Tetrahedron:* Asymmetry *19 (2008) 67*



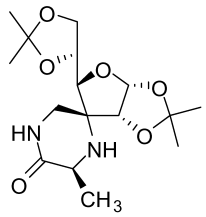
$[\alpha]_D^{25} = +67.8$ ($c$ 1.19, $CHCl_3$)
Source of chirality: chemical reaction
Absolute configuration: (1*R*,2*R*,3*R*,4*R*,5*R*)

$C_{15}H_{24}N_2O_6$

(3*R*)-1,2:5,6-Di-*O*-isopropylidenespiro[3-deoxy-α-D-*ribo*-hexofuranose-3,5′-piperazine]-2′-one

Hélène Ducatel, Albert Nguyen Van Nhien and Denis Postel*

*Tetrahedron:* Asymmetry *19 (2008) 67*



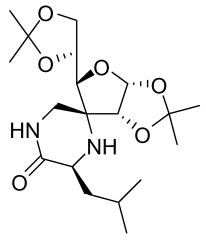
$[\alpha]_D^{25} = +23.3$ ($c$ 0.54, $CHCl_3$)
Source of chirality: chemical reaction
Absolute configuration: (1*R*,2*R*,3*R*,4*R*,5*R*,*S*)

$C_{16}H_{26}N_2O_6$

(3*R*,3′*S*)-1,2:5,6-Di-*O*-isopropylidene-3′-methylspiro[3-deoxy-α-D-*ribo*-hexofuranose-3,5′-piperazine]-2′-one

Hélène Ducatel, Albert Nguyen Van Nhien and Denis Postel*

*Tetrahedron:* Asymmetry *19 (2008) 67*



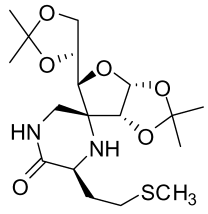
$[\alpha]_D^{20} = -13.0$ ($c$ 1.80, $CHCl_3$)
Source of chirality: chemical reaction
Absolute configuration: (1*R*,2*R*,3*R*,4*R*,5*R*,*S*)

$C_{19}H_{32}N_2O_6$

(3*R*,3′*S*)-3′-Isobutyl-1,2:5,6-di-*O*-isopropylidenespiro[3-deoxy-α-D-*ribo*-hexofuranose-3,5′-piperazine]-2′-one

Hélène Ducatel, Albert Nguyen Van Nhien and Denis Postel*

*Tetrahedron:* Asymmetry *19 (2008) 67*



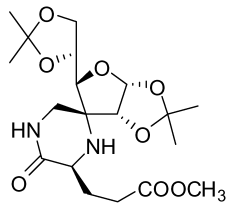
$[\alpha]_D^{20} = -20.0$ ($c$ 1.40, $CHCl_3$)
Source of chirality: chemical reaction
Absolute configuration: (1*R*,2*R*,3*R*,4*R*,5*R*,*S*)

$C_{18}H_{31}N_2O_6S$

(3*R*,3′*S*)-1,2:5,6-Di-*O*-isopropylidene-3′-(2-methylthioethyl)spiro[3-desoxy-α-D-*ribo*-hexofuranose-3,5′-piperazine]-2′-one

Hélène Ducatel, Albert Nguyen Van Nhien and Denis Postel*

*Tetrahedron:* Asymmetry *19 (2008) 67*



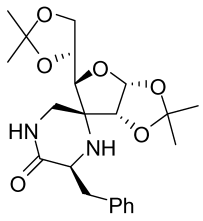
$[\alpha]_D^{20} = +11$ ($c$ 0.17, $CHCl_3$)
Source of chirality: chemical reaction
Absolute configuration: (1*R*,2*R*,3*R*,4*R*,5*R*,*S*)

$C_{19}H_{30}N_2O_8$

(3*R*,3′*S*)-1,2:5,6-Di-*O*-isopropylidene-3′-[2-(methoxycarbonyl)ethyl]spiro[3-deoxy-α-D-*ribo*-hexofuranose-3,5′-piperazine]-2′-one

Hélène Ducatel, Albert Nguyen Van Nhien and Denis Postel*

*Tetrahedron:* Asymmetry *19 (2008) 67*



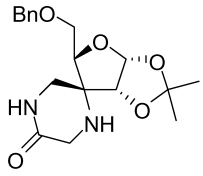
$[\alpha]_D^{20} = +18.0$ ($c$ 0.32, $CHCl_3$)
Source of chirality: chemical reaction
Absolute configuration: (1*R*,2*R*,3*R*,4*R*,5*R*,*S*)

$C_{21}H_{28}N_2O_6$

(3*R*,3′*S*)-3′-Benzyl-1,2:5,6-di-*O*-isopropylidenespiro[3-deoxy-α-D-*ribo*-hexofuranose-3,5′-piperazine]-2′-one

Hélène Ducatel, Albert Nguyen Van Nhien and Denis Postel*

*Tetrahedron:* Asymmetry *19 (2008) 67*



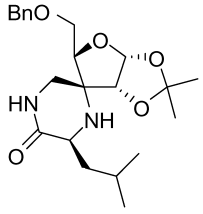
$[\alpha]_D^{29} = +71.6$ ($c$ 0.38, $CHCl_3$)
Source of chirality: chemical reaction
Absolute configuration: (1*R*,2*R*,3*R*,4*R*)

$C_{18}H_{24}N_2O_5$

(3*R*)-5-*O*-Benzyl-1,2-*O*-isopropylidenespiro[3-deoxy-α-D-*erythro*-pentofuranose-3,5′-piperazine]-2′-one

Hélène Ducatel, Albert Nguyen Van Nhien and Denis Postel*

*Tetrahedron:* Asymmetry *19 (2008) 67*



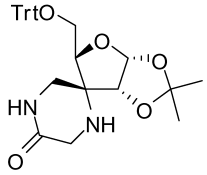
$[\alpha]_D^{20} = +13.0$ ($c$ 0.85, $CHCl_3$)
Source of chirality: chemical reaction
Absolute configuration: (1*R*,2*R*,3*R*,4*R*,*S*)

$C_{22}H_{32}N_2O_5$

(3*R*,3′*S*)-5-*O*-Benzyl-3′-isobutyl-1,2-*O*-isopropylidenespiro[3-deoxy-α-D-*erythro*-pentofuranose-3,5′-piperazine]-2′-one

Hélène Ducatel, Albert Nguyen Van Nhien and Denis Postel*

*Tetrahedron:* Asymmetry *19 (2008) 67*



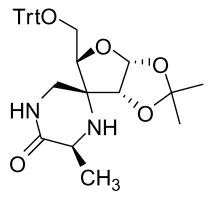
$[\alpha]_D^{27} = +51.1$ ($c$ 0.28, $CHCl_3$)
Source of chirality: chemical reaction
Absolute configuration: (1*R*,2*R*,3*R*,4*R*)

$C_{30}H_{32}N_2O_5$

(3*R*)-1,2-*O*-Isopropylidene-5-*O*-trityl-spiro[3-deoxy-α-D-*erythro*-pentofuranose-3,5′-piperazine]-2′-one

Hélène Ducatel, Albert Nguyen Van Nhien and Denis Postel*

*Tetrahedron:* Asymmetry *19 (2008) 67*



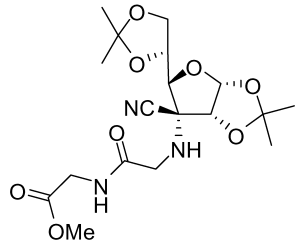
$[\alpha]_D^{27} = +10.6$ (*c* 0.39, $CHCl_3$)
Source of chirality: chemical reaction
Absolute configuration: (1*R*,2*R*,3*R*,4*R*,*S*)

$C_{31}H_{34}N_2O_5$

(3*R*,3′*S*)-1,2-*O*-Isopropylidene-3′-methyl-5-*O*-trityl-spiro[3-deoxy-α-D-*erythro*-pentofuranose-3,5′-piperazine]-2′-one

Hélène Ducatel, Albert Nguyen Van Nhien and Denis Postel*

*Tetrahedron:* Asymmetry *19 (2008) 67*



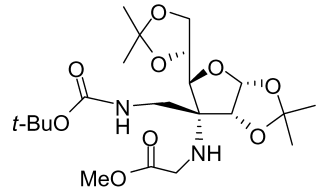
$[\alpha]_D^{28} = +1.4$ (*c* 0.38, $CHCl_3$)
Source of chirality: chemical reaction
Absolute configuration: (1*R*,2*R*,3*R*,4*R*,5*R*)

$C_{18}H_{27}N_3O_8$

3-*C*-Cyano-3-deoxy-1,2:5,6-di-*O*-isopropylidene-3-[[[[(methoxycarbonyl)methyl]carbamoyl]methyl]amino]-α-D-allofuranose

Hélène Ducatel, Albert Nguyen Van Nhien and Denis Postel*

*Tetrahedron:* Asymmetry *19 (2008) 67*



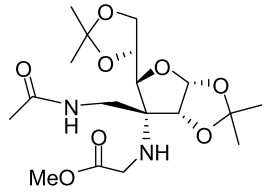
$[\alpha]_D^{32} = +13.3$ (*c* 1.38, $CHCl_3$)
Source of chirality: chemical reaction
Absolute configuration: (1*R*,2*R*,3*R*,4*R*,5*R*)

$C_{21}H_{37}N_2O_9$

3-Deoxy-1,2:5,6-di-*O*-isopropylidene-3-[[(methoxycarbonyl)methyl]amino]-3-*C*-[(*tert*-butoxycarbonyl)aminomethyl]-α-D-allofuranose

Hélène Ducatel, Albert Nguyen Van Nhien and Denis Postel*

*Tetrahedron:* Asymmetry *19 (2008) 67*



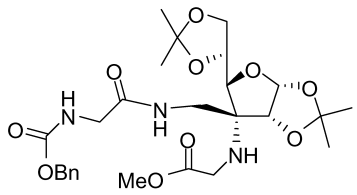
$[\alpha]_D^{20} = +47$ (*c* 0.16, $CHCl_3$)
Source of chirality: chemical reaction
Absolute configuration: (1*R*,2*R*,3*R*,4*R*,5*R*)

$C_{18}H_{30}N_2O_8$

3-*C*-(Acetamidomethyl)-3-deoxy-1,2:5,6-di-*O*-isopropylidene-3-[[(methoxycarbonyl)methyl]amino]-α-D-allofuranose

Hélène Ducatel, Albert Nguyen Van Nhien and Denis Postel*

*Tetrahedron:* Asymmetry *19 (2008) 67*



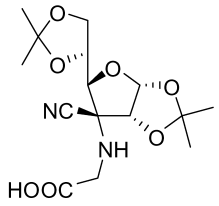
$[\alpha]_D^{31} = -1.7$ (*c* 0.92, $CHCl_3$)
Source of chirality: chemical reaction
Absolute configuration: (1*R*,2*R*,3*R*,4*R*,5*R*)

$C_{26}H_{37}N_3O_{10}$

3-*C*-[[[(Benzyloxy)carbonyl]glycyl]aminomethyl]-3-deoxy-1,2:5,6-di-*O*-isopropylidene-3-[[(methoxycarbonyl)methyl]amino]-α-D-allofuranose

Hélène Ducatel, Albert Nguyen Van Nhien and Denis Postel*

*Tetrahedron:* Asymmetry *19 (2008) 67*



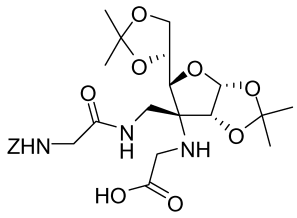
$[\alpha]_D^{29} = +26.8$ (*c* 0.47, $CHCl_3$)
Source of chirality: chemical reaction
Absolute configuration: (1*R*,2*R*,3*R*,4*R*,5*R*)

$C_{15}H_{22}N_2O_7$

3-[(Carboxymethyl)amino]-3-*C*-cyano-3-deoxy-1,2:5,6-di-*O*-isopropylidene-α-D-allofuranose

Hélène Ducatel, Albert Nguyen Van Nhien and Denis Postel*

*Tetrahedron:* Asymmetry *19 (2008) 67*



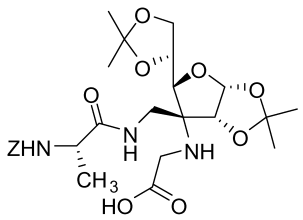
$[\alpha]_D^{20} = +18$ (*c* 0.12, $CHCl_3$)
Source of chirality: chemical reaction
Absolute configuration: (1*R*,2*R*,3*R*,4*R*,5*R*)

$C_{25}H_{35}N_3O_{10}$

3-*C*-[[[(Benzyloxy)carbonyl]glycyl]aminomethyl]-3-[(carboxymethyl)amino]-3-deoxy-1,2:5,6-di-*O*-isopropylidene-α-D-allofuranose

Hélène Ducatel, Albert Nguyen Van Nhien and Denis Postel*

*Tetrahedron:* Asymmetry *19 (2008) 67*



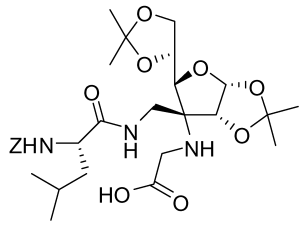
$[\alpha]_D^{20} = +20$ (*c* 0.11, $CHCl_3$)
Source of chirality: chemical reaction
Absolute configuration: (1*R*,2*R*,3*R*,4*R*,5*R*,*S*)

$C_{26}H_{37}N_3O_{10}$

3-*C*-[[[(Benzyloxy)carbonyl]-L-alanyl]aminomethyl]-3-[(carboxymethyl)amino]-3-deoxy-1,2:5,6-di-*O*-isopropylidene-α-D-allofuranose

Hélène Ducatel, Albert Nguyen Van Nhien and Denis Postel*

*Tetrahedron:* Asymmetry *19 (2008) 67*



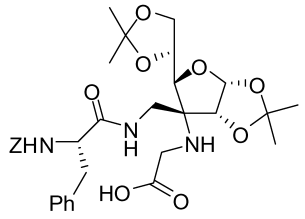
$C_{29}H_{43}N_3O_{10}$

$[\alpha]_D^{20} = +27$ ($c$ 0.15, $CHCl_3$)
Source of chirality: chemical reaction
Absolute configuration: (1*R*,2*R*,3*R*,4*R*,5*R*,*S*)

3-*C*-[[[(Benzyloxy)carbonyl]-L-isoleucyl]aminomethyl]-3-[(carboxymethyl)amino]-3-deoxy-1,2:5,6-di-*O*-isopropylidene-α-D-allofuranose

Hélène Ducatel, Albert Nguyen Van Nhien and Denis Postel*

*Tetrahedron:* Asymmetry *19 (2008) 67*



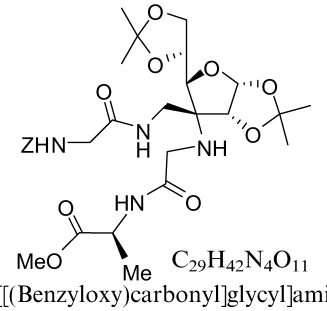
$C_{32}H_{41}N_3O_{10}$

$[\alpha]_D^{20} = +21$ ($c$ 0.12, $CHCl_3$)
Source of chirality: chemical reaction
Absolute configuration: (1*R*,2*R*,3*R*,4*R*,5*R*,*S*)

3-*C*-[[[(Benzyloxy)carbonyl]-L-phenylalanyl]aminomethyl]-3-[(carboxymethyl)amino]-3-deoxy-1,2:5,6-di-*O*-isopropylidene-α-D-allofuranose

Hélène Ducatel, Albert Nguyen Van Nhien and Denis Postel*

*Tetrahedron:* Asymmetry *19 (2008) 67*



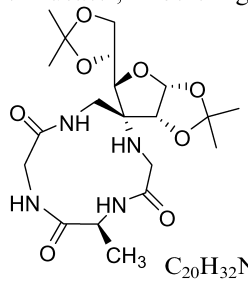
$C_{29}H_{42}N_4O_{11}$

$[\alpha]_D^{20} = +7.0$ ($c$ 0.10, $CHCl_3$)
Source of chirality: chemical reaction
Absolute configuration: (1*R*,2*R*,3*R*,4*R*,5*R*,*S*)

3-*C*-[[[(Benzyloxy)carbonyl]glycyl]aminomethyl]-3-deoxy-1,2:5,6-di-*O*-isopropylidene-3-[[[[(1*S*)-(methoxycarbonyl)ethyl]amino]-carboxy]methylamino]-α-D-allofuranose

Hélène Ducatel, Albert Nguyen Van Nhien and Denis Postel*

*Tetrahedron:* Asymmetry *19 (2008) 67*



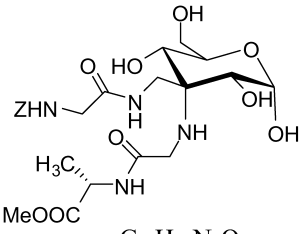
$C_{20}H_{32}N_4O_8$

$[\alpha]_D^{20} = -13.0$ ($c$ 0.15, $CHCl_3$)
Source of chirality: chemical reaction
Absolute configuration: (1*R*,2*R*,3*R*,4*R*,5*R*,*S*)

[1*S*,3*R*,4*R*,5*S*,10*S*]-1-[(4*R*)(2,2-Dimethyl-[1,3]dioxolan-4-yl)]-3,4-*O*-isopropylidene-10-methyl-2-oxa-6,9,12,15-tetraaza-spiro[4.11]hexadecane-8,11,14-trione

Hélène Ducatel, Albert Nguyen Van Nhien and Denis Postel*

*Tetrahedron:* Asymmetry *19 (2008) 67*



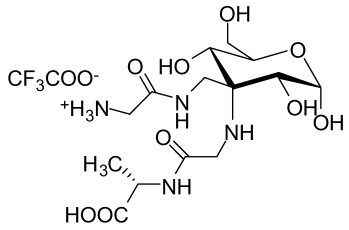
$[\alpha]_D^{20} = +21$ ($c$ 0.10, $H_2O$)
Source of chirality: chemical reaction
Absolute configuration: (2*R*,3*R*,4*R*,5*R*,*S*)

$C_{23}H_{34}N_4O_{11}$

3-*C*-[[[(Benzyloxy)carbonyl]glycyl]aminomethyl]-3-deoxy-3-[[[[1-(methoxycarbonyl)ethyl]amino]carboxymethyl]amino]-α-D-allopyranose

Hélène Ducatel, Albert Nguyen Van Nhien and Denis Postel*

*Tetrahedron:* Asymmetry *19 (2008) 67*



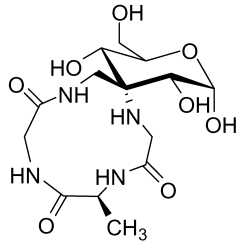
$[\alpha]_D^{20} = +29$ ($c$ 0.25, $H_2O$)
Source of chirality: chemical reaction
Absolute configuration: (2*R*,3*R*,4*R*,5*R*,*S*)

$C_{14}H_{27}N_4O_9$

3-Deoxy-3-[[[[1-(carboxy)ethyl]amino]carboxymethyl]amino]-3-*C*-[[[glycyl]amino]methyl]-α-D-allopyranose. Trifluoroactetate

Hélène Ducatel, Albert Nguyen Van Nhien and Denis Postel*

*Tetrahedron:* Asymmetry *19 (2008) 67*



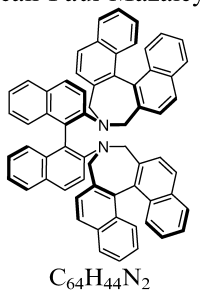
$[\alpha]_D^{20} = +76$ ($c$ 0.10, $H_2O$)
Source of chirality: chemical reaction
Absolute configuration: (2*R*,3*R*,4*R*,5*R*,*S*)

$C_{14}H_{24}N_4O_8$

[(1*R*,2*R*,4*S*,5*S*,11*S*)]-1,2,5-Trihydroxy-4-hydroxymethyl-11-methyl-3-oxa-7,10,13,16-tetraaza-spiro[5.11]heptadecane-9,12,15-trione

Isabelle Aillaud, Karen Wright, Jacqueline Collin, Emmanuelle Schulz* and Jean-Paul Mazaleyrat*

*Tetrahedron:* Asymmetry *19 (2008) 82*

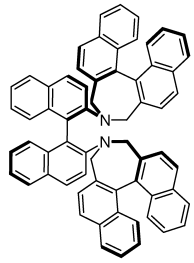


$[\alpha]_{436}^{25} = -238$ ($c$ 0.2, $CHCl_3$)
Absolute configuration: (*R*,*R*,*R*) (assigned by comparison)

$C_{64}H_{44}N_2$

Isabelle Aillaud, Karen Wright, Jacqueline Collin, Emmanuelle Schulz* and Jean-Paul Mazaleyrat*

*Tetrahedron:* Asymmetry *19 (2008) 82*



$C_{64}H_{44}N_2$

$[\alpha]_{436}^{25} = -4256$ ($c$ 0.23, $CHCl_3$)
Absolute configuration: (*R*,*S*,*S*) (assigned by comparison)

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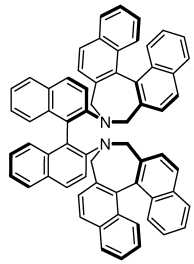
Isabelle Aillaud, Karen Wright, Jacqueline Collin, Emmanuelle Schulz* and Jean-Paul Mazaleyrat*

*Tetrahedron:* Asymmetry *19 (2008) 82*



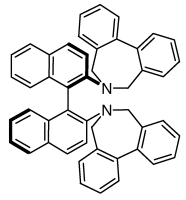
$C_{64}H_{44}N_2$

$[\alpha]_{436}^{25} = -2070$ ($c$ 0.2, $CHCl_3$)
Absolute configuration: (*R*,*R*,*S*) (assigned by comparison)

---

Isabelle Aillaud, Karen Wright, Jacqueline Collin, Emmanuelle Schulz* and Jean-Paul Mazaleyrat*

*Tetrahedron:* Asymmetry *19 (2008) 82*



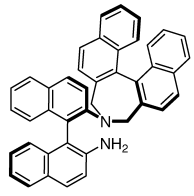
$C_{48}H_{36}N_2$

$[\alpha]_{436}^{25} = -1096$ ($c$ 0.5, $CH_2Cl_2$)
Absolute configuration: (*R*) (assigned from (*R*)-2,2′-diamino-1,1′-binaphthyl)

---

Isabelle Aillaud, Karen Wright, Jacqueline Collin, Emmanuelle Schulz* and Jean-Paul Mazaleyrat*

*Tetrahedron:* Asymmetry *19 (2008) 82*

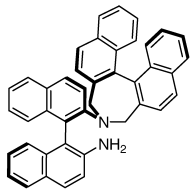


$C_{42}H_{30}N_2$

$[\alpha]_{436}^{25} = +1970$ ($c$ 0.2, $CHCl_3$)
Absolute configuration: (*R*,*R*) (assigned by comparison)

Isabelle Aillaud, Karen Wright, Jacqueline Collin, Emmanuelle Schulz* and Jean-Paul Mazaleyrat*

*Tetrahedron:* Asymmetry *19 (2008) 82*




$C_{42}H_{30}N_2$

$[\alpha]_{436}^{25} = -1779$ ($c$ 0.2, $CHCl_3$)
Absolute configuration: (*R*,*S*) (assigned by comparison)

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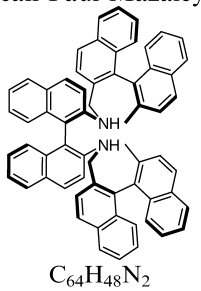
Isabelle Aillaud, Karen Wright, Jacqueline Collin, Emmanuelle Schulz* and Jean-Paul Mazaleyrat*

*Tetrahedron:* Asymmetry *19 (2008) 82*




$C_{64}H_{48}N_2$

$[\alpha]_{436}^{25} = -177$ ($c$ 0.2, $CHCl_3$)
Absolute configuration: (*R*,*S*,*S*) (assigned by comparison)

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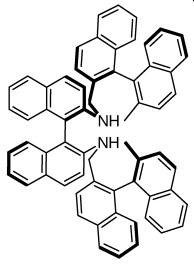
Isabelle Aillaud, Karen Wright, Jacqueline Collin, Emmanuelle Schulz* and Jean-Paul Mazaleyrat*

*Tetrahedron:* Asymmetry *19 (2008) 82*



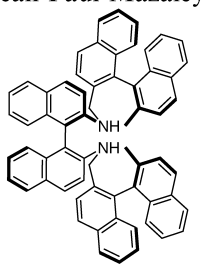

$C_{64}H_{48}N_2$

$[\alpha]_{436}^{25} = -124$ ($c$ 0.2, $CHCl_3$)
Absolute configuration: (*R*,*R*,*R*) (assigned by comparison)

---

Isabelle Aillaud, Karen Wright, Jacqueline Collin, Emmanuelle Schulz* and Jean-Paul Mazaleyrat*

*Tetrahedron:* Asymmetry *19 (2008) 82*

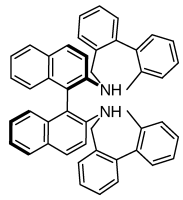



$C_{64}H_{48}N_2$

$[\alpha]_{436}^{25} = -128$ ($c$ 0.2, $CHCl_3$)
Absolute configuration: (*R*,*S*,*R*) (assigned by comparison)

Isabelle Aillaud, Karen Wright, Jacqueline Collin, Emmanuelle Schulz* and Jean-Paul Mazaleyrat*

*Tetrahedron:* Asymmetry *19 (2008) 82*




$C_{48}H_{40}N_2$

$[\alpha]_{436}^{25} = +81$ (*c* 0.5, $CH_2Cl_2$)
Absolute configuration: (*R*) (assigned from (*R*)-2,2′-diamino-1,1′-binaphthyl)

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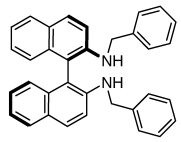
Isabelle Aillaud, Karen Wright, Jacqueline Collin, Emmanuelle Schulz* and Jean-Paul Mazaleyrat*

*Tetrahedron:* Asymmetry *19 (2008) 82*




$C_{34}H_{28}N_2$

$[\alpha]_{436}^{25} = +353$ (*c* 1.4, $CHCl_3$)
Absolute configuration: (*R*) (assigned from (*R*)-2,2′-diamino-1,1′-binaphthyl)

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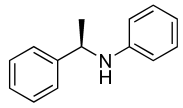
T. Vaijayanthi and Anju Chadha*

*Tetrahedron:* Asymmetry *19 (2008) 93*



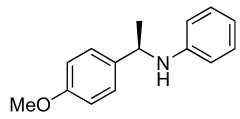

$C_{14}H_{15}N$
(*R*)-*N*-(1-Phenylethyl)benzenamine

Ee = 98%
$[\alpha]_D^{25} = -11.4$ (*c* 1.1, $CHCl_3$)
Source of chirality: biocatalytic asymmetric reduction
Absolute configuration: (*R*)

---

T. Vaijayanthi and Anju Chadha*

*Tetrahedron:* Asymmetry *19 (2008) 93*

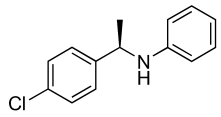



$C_{15}H_{17}NO$
(*R*)-*N*-(1-(4-Methoxyphenyl)ethyl)benzenamine

Ee = 97%
$[\alpha]_D^{25} = -3.97$ (*c* 0.8, $CHCl_3$)
Source of chirality: biocatalytic asymmetric reduction
Absolute configuration: (*R*)

T. Vaijayanthi and Anju Chadha*

*Tetrahedron:* Asymmetry *19 (2008) 93*



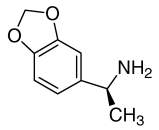
Ee = 95%
$[\alpha]_D^{25} = -11.9$ (*c* 1.2, $CHCl_3$)
Source of chirality: biocatalytic asymmetric reduction
Absolute configuration: (*R*)

$C_{14}H_{14}ClN$
(*R*)-*N*-(1-(4-Chlorophenyl)ethyl)benzenamine

---

Marc Lamblin, Axel Couture,* Eric Deniau and Pierre Grandclaudon

*Tetrahedron:* Asymmetry *19 (2008) 111*



Ee >96%
$[\alpha]_D^{25} = -24.8$ (*c* 1.10, $CHCl_3$)
Source of chirality: (*S*)-valinol
Absolute configuration: (1*S*)

$C_9H_{11}NO_2$
(*S*)-1-Benzo[1,3]dioxol-5-ylethylamine

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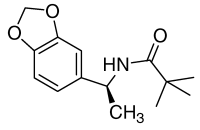
*Tetrahedron:* Asymmetry *19 (2008) 111*



Ee >96%
$[\alpha]_D^{25} = -86.2$ (*c* 1.04, $CHCl_3$)
Source of chirality: (*S*)-valinol
Absolute configuration: (1*S*)

$C_{14}H_{19}NO_3$
*N*-(*S*)-(1-Benzo[1,3]dioxol-5-ylethyl)-2,2-dimethylpropionamide

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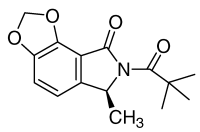
Marc Lamblin, Axel Couture,* Eric Deniau and Pierre Grandclaudon

*Tetrahedron:* Asymmetry *19 (2008) 111*



Ee >96%
$[\alpha]_D^{25} = +2.0$ (*c* 1.05, $CHCl_3$)
Source of chirality: (*S*)-valinol
Absolute configuration: (6*S*)

$C_{15}H_{17}NO_4$
(*S*)-7-(2,2-Dimethylpropionyl)-6-methyl-6,7-dihydro-8*H*-1,3-dioxolo[4,5-*e*]isoindol-8-one

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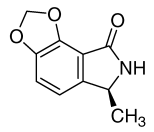
*Tetrahedron:* Asymmetry *19 (2008) 111*

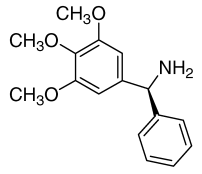


Ee >96%
$[\alpha]_D^{25} = -12.4$ (*c* 1.03, DMSO)
Source of chirality: (*S*)-valinol
Absolute configuration: (6*S*)

$C_{10}H_9NO_3$
(*S*)-6-Methyl-6,7-dihydro-8*H*-1,3-dioxolo[4,5-*e*]isoindol-8-one

Marc Lamblin, Axel Couture,* Eric Deniau and Pierre Grandclaudon

*Tetrahedron:* Asymmetry *19 (2008) 111*



Ee >96%
$[\alpha]_D^{25} = +24.4$ (*c* 1.06, $CHCl_3$)
Source of chirality: (*S*)-valinol
Absolute configuration: (1*S*)

$C_{16}H_{19}NO_3$
(*S*)-1-Phenyl-1-(3,4,5-trimethoxyphenyl)methyl amine

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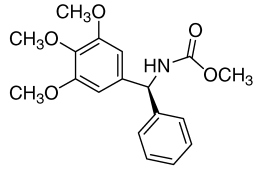
*Tetrahedron:* Asymmetry *19 (2008) 111*



Ee >96%
$[\alpha]_D^{25} = -3.4$ (*c* 1.05, $CHCl_3$)
Source of chirality: (*S*)-valinol
Absolute configuration: (1*S*)

$C_{18}H_{21}NO_5$
(*S*)-[Phenyl-(3,4,5-trimethoxyphenyl)methyl] carbamic acid methyl ester

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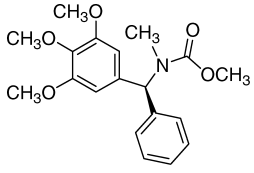
*Tetrahedron:* Asymmetry *19 (2008) 111*



Ee >96%
$[\alpha]_D^{25} = -11.2$ (*c* 1.00, $CHCl_3$)
Source of chirality: (*S*)-valinol
Absolute configuration: (1*S*)

$C_{19}H_{23}NO_5$
(*S*)-Methyl[phenyl-(3,4,5-trimethoxyphenyl)methyl]carbamic acid methyl ester

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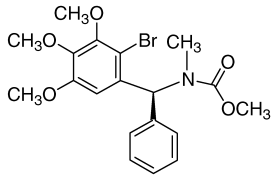
*Tetrahedron:* Asymmetry *19 (2008) 111*



Ee >96%
$[\alpha]_D^{25} = -0.3$ (*c* 1.01, $CHCl_3$)
Source of chirality: (*S*)-valinol
Absolute configuration: (1*S*)

$C_{19}H_{22}BrNO_5$
(*S*)-[(2-Bromo-3,4,5-trimethoxyphenyl)phenylmethyl]methylcarbamic acid methyl ester

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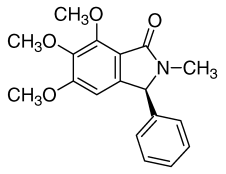
*Tetrahedron:* Asymmetry *19 (2008) 111*



Ee >96%
$[\alpha]_D^{25} = +5.7$ (*c* 1.06, $CHCl_3$)
Source of chirality: (*S*)-valinol
Absolute configuration: (3*S*)

$C_{18}H_{19}NO_4$
(*S*)-5,6,7-Trimethoxy-2-methyl-3-phenyl-2,3-dihydro-1*H*-isoindol-1-one

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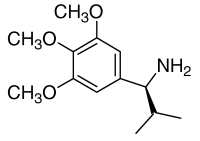
*Tetrahedron:* Asymmetry *19 (2008) 111*



Ee >96%
$[\alpha]_D^{25} = +3.5$ (*c* 1.03, $CHCl_3$)
Source of chirality: (*S*)-valinol
Absolute configuration: (1*S*)

$C_{13}H_{21}NO_3$
(*S*)-2-Methyl-1-(3,4,5-trimethoxyphenyl)propylamine

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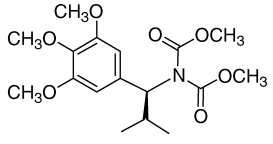

Ee >96%
$[\alpha]_D^{25} = -48.1$ (*c* 1.02, $CHCl_3$)
Source of chirality: (*S*)-valinol
Absolute configuration: (1*S*)

$C_{17}H_{25}NO_7$
(*S*)-*N*,*N*-Di(methoxycarbonyl)-2-methyl-1-(3,4,5-trimethoxyphenyl)propylamine

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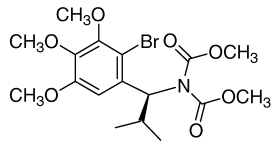
*Tetrahedron:* Asymmetry *19 (2008) 111*



Ee >96%
$[\alpha]_D^{25} = +6.5$ (*c* 1.06, $CHCl_3$)
Source of chirality: (*S*)-valinol
Absolute configuration: (1*S*)

$C_{17}H_{24}BrNO_7$
(*S*)-*N*,*N*-Di(methoxycarbonyl)-2-methyl-1-(2-bromo-3,4,5-trimethoxyphenyl)propylamine

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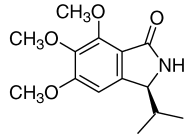

Ee >96%
$[\alpha]_D^{25} = -48.1$ (*c* 0.9, $CHCl_3$)
Source of chirality: (*S*)-valinol
Absolute configuration: (3*S*)

$C_{14}H_{19}NO_4$
(*S*)-3-Isopropyl-5,6,7-trimethoxy-2,3-dihydro-1*H*-isoindol-1-one