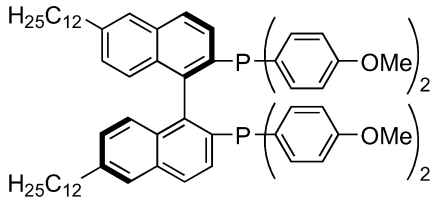
Mohamad Jahjah, Mohamad Alame, Stéphane Pellet-Rostaing* and Marc Lemaire*

Tetrahedron: Asymmetry *18 (2007) 2305*



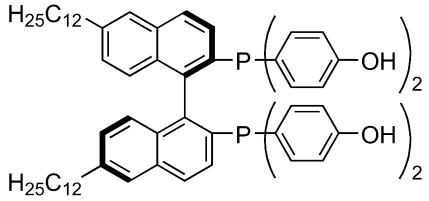
$C_{72}H_{88}O_4P_2$

(*R*)-6,6′-Didodecyl-2,2′-bis[bis(4-methoxyphenyl)phosphino]1,1′binaphthyl

Ee = 99%
$[\alpha]_D^{25} = -25.65$ (*c* 0.64, CHCl)
Source of chirality: asymmetric synthesis
Absolute configuration: (*R*)

Mohamad Jahjah, Mohamad Alame, Stéphane Pellet-Rostaing* and Marc Lemaire*

Tetrahedron: Asymmetry *18 (2007) 2305*



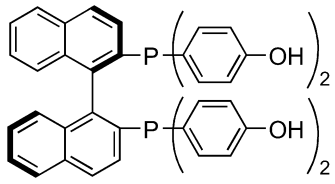
$C_{68}H_{80}O_4P_2$

(*R*)-6,6′-Didodecyl-2,2′-bis[bis(4-hydroxyphenyl)phosphino]1,1′-binaphthyl

Ee = 99%
$[\alpha]_D^{25} = +42.0$ (*c* 0.83, CH_2Cl_2)
Source of chirality: asymmetric synthesis
Absolute configuration: (*R*)

Mohamad Jahjah, Mohamad Alame, Stéphane Pellet-Rostaing* and Marc Lemaire*

Tetrahedron: Asymmetry *18 (2007) 2305*



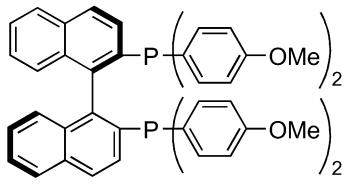
$C_{44}H_{32}O_4P_2$

(*R*)-2,2′-Bis[bis(4-hydroxyphenyl)phosphino]1,1′-binaphthyl

Ee = 99%
$[\alpha]_D^{25} = +29$ (*c* 0.9, MeOH)
Source of chirality: asymmetric synthesis
Absolute configuration: (*R*)

Mohamad Jahjah, Mohamad Alame, Stéphane Pellet-Rostaing* and Marc Lemaire*

Tetrahedron: Asymmetry *18 (2007) 2305*



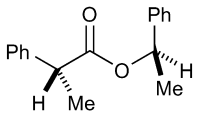
$C_{48}H_{40}O_4P_2$

(*R*)-2,2′-Bis[bis(4-methoxyphenyl)phosphino]1,1′-binaphthyl

Ee = 99%
$[\alpha]_D^{25} = +107.6$ (*c* 0.04, $CHCl_3$)
Source of chirality: asymmetric synthesis
Absolute configuration: (*R*)

Elliot Coulbeck and Jason Eames*

Tetrahedron: Asymmetry *18 (2007) 2313*



$C_{17}H_{18}O_2$

1-Phenylethyl-2-phenylpropionate

Ee >98%; De >98%

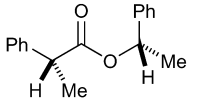
$[\alpha]_D^{20} = +10.5$ (*c* 3.0, $CHCl_3$)

Source of chirality: asymmetric synthesis

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

Elliot Coulbeck and Jason Eames*

Tetrahedron: Asymmetry *18 (2007) 2313*



$C_{17}H_{18}O_2$

1-Phenylethyl-2-phenylpropionate

Ee >98%; De >98%

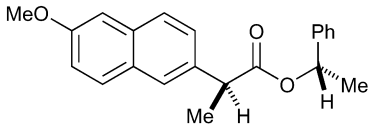
$[\alpha]_D^{20} = -60.4$ (*c* 1.9, $CHCl_3$)

Source of chirality: asymmetric synthesis

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

Elliot Coulbeck and Jason Eames*

Tetrahedron: Asymmetry *18 (2007) 2313*



$C_{22}H_{22}O_3$

1-Phenylethyl-2-(6-methoxy-naphthalene-2-yl)propionate

Ee >98%; De >98%

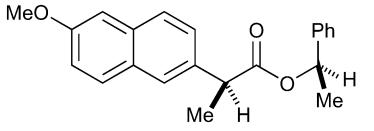
$[\alpha]_D^{20} = +26.6$ (*c* 3.2, $CHCl_3$)

Source of chirality: asymmetric synthesis

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

Elliot Coulbeck and Jason Eames*

Tetrahedron: Asymmetry *18 (2007) 2313*



$C_{22}H_{22}O_3$

1-Phenylethyl-2-(6-methoxy-naphthalene-2-yl)propionate

Ee >98%; De >98%

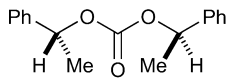
$[\alpha]_D^{20} = +8.75$ (*c* 1.64, $CHCl_3$)

Source of chirality: asymmetric synthesis

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

Elliot Coulbeck and Jason Eames*

Tetrahedron: Asymmetry *18 (2007) 2313*

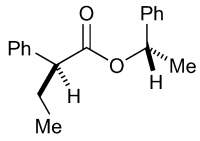


$C_{17}H_{18}O_3$
Di-(1-phenylethyl)-carbonate

Ee >98%; De >98%
$[\alpha]_D^{20} = +116.6$ (c 0.8, $CHCl_3$)
Source of chirality: asymmetric synthesis
Absolute configuration: (R,R)

Elliot Coulbeck and Jason Eames*

Tetrahedron: Asymmetry *18 (2007) 2313*

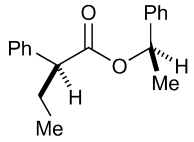


$C_{18}H_{20}O_2$
1-Phenylethyl-2-phenylbutyrate

Ee >98%; De >98%
$[\alpha]_D^{20} = -12.9$ (c 6.2, $CHCl_3$)
Source of chirality: asymmetric synthesis
Absolute configuration: (S,S)

Elliot Coulbeck and Jason Eames*

Tetrahedron: Asymmetry *18 (2007) 2313*

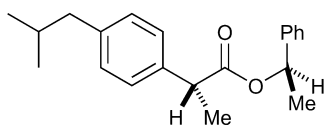


$C_{18}H_{20}O_2$
1-Phenylethyl-2-phenylbutyrate

Ee >98%; De >98%
$[\alpha]_D^{20} = +56.4$ (c 1.95, $CHCl_3$)
Source of chirality: asymmetric synthesis
Absolute configuration: (S,R)

Elliot Coulbeck and Jason Eames*

Tetrahedron: Asymmetry *18 (2007) 2313*

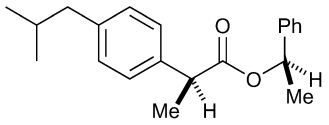


$C_{21}H_{26}O_2$
1-Phenylethyl 2-(4-isopropylphenyl)propionate

Ee >98%; De >98%
$[\alpha]_D^{20} = -14.2$ (c 9.8, $CHCl_3$)
Source of chirality: asymmetric synthesis
Absolute configuration: (R,R)

Elliot Coulbeck and Jason Eames*

Tetrahedron: Asymmetry *18 (2007) 2313*

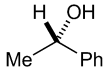


Ee >98%; De >98%
$[\alpha]_D^{20} = +29.4$ (*c* 0.65, $CHCl_3$)
Source of chirality: asymmetric synthesis
Absolute configuration: (*S*,*R*)

$C_{21}H_{26}O_2$
1-Phenylethyl 2-(4-isopropylphenyl)propionate

Elliot Coulbeck and Jason Eames*

Tetrahedron: Asymmetry *18 (2007) 2313*

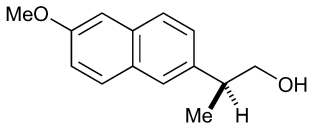


Ee >95%
$[\alpha]_D^{20} = -43.0$ (*c* 11.4, $CHCl_3$)
Source of chirality: asymmetric synthesis
Absolute configuration: (*S*)

$C_8H_{10}O$
1-Phenylethanol

Elliot Coulbeck and Jason Eames*

Tetrahedron: Asymmetry *18 (2007) 2313*

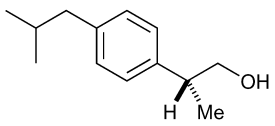


Ee >95%
$[\alpha]_D^{20} = -17.7$ (*c* 22.0, $CHCl_3$)
Source of chirality: asymmetric synthesis
Absolute configuration: (*S*)

$C_{14}H_{16}O_2$
2-(6-Methoxy-2-naphthyl)propanol

Elliot Coulbeck and Jason Eames*

Tetrahedron: Asymmetry *18 (2007) 2313*



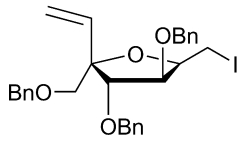
Ee >95%
$[\alpha]_D^{20} = +18.5$ (*c* 1.6, $CHCl_3$)
Source of chirality: asymmetric synthesis
Absolute configuration: (*R*)

$C_{13}H_{20}O$
2-(4-Isobutylphenyl)propanol

Yi Liu, Tian-Xiang Han, Zhen-Jun Yang, Liang-Ren Zhang and Li-He Zhang*

Tetrahedron: Asymmetry *18 (2007) 2326*

$[\alpha]_D^{20} = +18.1$ (c 0.09, CH_2Cl_2)



$C_{29}H_{31}IO_4$

2,5-Anhydro-3,4,6-tri-*O*-benzyl-1-iodo-5-vinyl-L-manno-hexitol

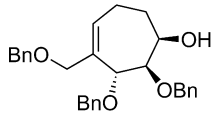
---

Yi Liu, Tian-Xiang Han, Zhen-Jun Yang, Liang-Ren Zhang and Li-He Zhang*

Tetrahedron: Asymmetry *18 (2007) 2326*

$[\alpha]_D^{20} = -63.1$ (c 0.08, MeOH)

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



$C_{29}H_{32}O_4$

(1*R*,2*R*,3*R*)-4-Benzyloxymethyl-2,3-dibenzyloxycyclohepta-4-ene-1-ol

---

Yi Liu, Tian-Xiang Han, Zhen-Jun Yang, Liang-Ren Zhang and Li-He Zhang*

Tetrahedron: Asymmetry *18 (2007) 2326*

$[\alpha]_D^{20} = -28.4$ (c 0.12, MeOH)

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

$C_{29}H_{32}O_4$

(1*S*,2*R*,3*R*)-4-Benzyloxymethyl-2,3-dibenzyloxycyclohepta-4-ene-1-ol

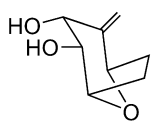
---

Yi Liu, Tian-Xiang Han, Zhen-Jun Yang, Liang-Ren Zhang and Li-He Zhang*

Tetrahedron: Asymmetry *18 (2007) 2326*

$[\alpha]_D^{20} = -16.7$ (c 0.10, MeOH)

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

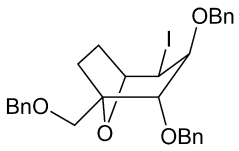


$C_8H_{12}O_3$

(1*S*,2*S*,3*R*,5*R*)-4-Methylene-8-oxa-bicyclo[3.2.1]octane-2,3-diol

Yi Liu, Tian-Xiang Han, Zhen-Jun Yang, Liang-Ren Zhang and Li-He Zhang*

Tetrahedron: Asymmetry *18 (2007) 2326*



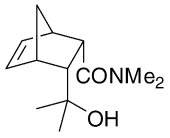
$C_{29}H_{31}IO_4$

$[\alpha]_D^{20} = -38.8$ (c 0.37, CH_2Cl_2)
Absolute configuration: (1*S*,2*S*,3*S*,4*R*,5*S*)

(1*S*,2*S*,3*S*,4*R*,5*S*)-2,3-Dibenzyloxy-1-benzyloxymethyl-4-iodo-8-oxa-bicyclo[3.2.1]octane

Cihangir Tanyeli,* Serhat Odabaş, Mine Erdem, Esen Çakır and Eda Keskin

Tetrahedron: Asymmetry *18 (2007) 2349*



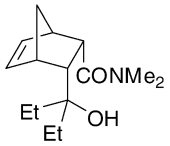
$C_{13}H_{21}NO_2$

Ee = 98%
$[\alpha]_D^{20} = +84.6$ (c 1.84, $CHCl_3$)
Source of chirality: asymmetric synthesis
Absolute configuration: (2*S*,3*R*)

(2*S*,3*R*)-3-(2-Hydroxypropan-2-yl)-*N*,*N*-dimethylbicyclo[2.2.1]hept-5-ene-2-carboxamide

Cihangir Tanyeli,* Serhat Odabaş, Mine Erdem, Esen Çakır and Eda Keskin

Tetrahedron: Asymmetry *18 (2007) 2349*



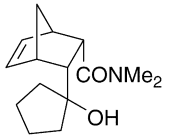
$C_{15}H_{25}NO_2$

Ee = 98%
$[\alpha]_D^{20} = +80.8$ (c 2.11, $CHCl_3$)
Source of chirality: asymmetric synthesis
Absolute configuration: (2*S*,3*R*)

(2*S*,3*R*)-3-(3-Hydroxypentan-3-yl)-*N*,*N*-dimethylbicyclo[2.2.1]hept-5-ene-2-carboxamide

Cihangir Tanyeli,* Serhat Odabaş, Mine Erdem, Esen Çakır and Eda Keskin

Tetrahedron: Asymmetry *18 (2007) 2349*



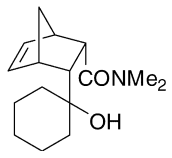
$C_{15}H_{23}NO_2$

Ee = 98%
$[\alpha]_D^{20} = +46.2$ (c 2.01, $CHCl_3$)
Source of chirality: asymmetric synthesis
Absolute configuration: (2*S*,3*R*)

(2*S*,3*R*)-3-(1-Hydroxycyclopentyl)-*N*,*N*-dimethylbicyclo[2.2.1]hept-5-ene-2-carboxamide

Cihangir Tanyeli,* Serhat Odabaş, Mine Erdem, Esen Çakır and Eda Keskin

Tetrahedron: Asymmetry *18 (2007) 2349*



Ee = 98%
$[\alpha]_D^{20} = +52.4$ (c 2.00, $CHCl_3$)
Source of chirality: asymmetric synthesis
Absolute configuration: (2*S*,3*R*)

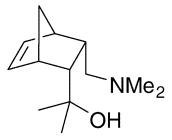
$C_{16}H_{25}NO_2$

(2*S*,3*R*)-3-(1-Hydroxycyclohexyl)-*N*,*N*-dimethylbicyclo[2.2.1]hept-5-ene-2-carboxamide

---

Cihangir Tanyeli,* Serhat Odabaş, Mine Erdem, Esen Çakır and Eda Keskin

Tetrahedron: Asymmetry *18 (2007) 2349*



Ee = 98%
$[\alpha]_D^{20} = +17.4$ (c 1.37, $CHCl_3$)
Source of chirality: asymmetric synthesis
Absolute configuration: (2*R*,3*S*)

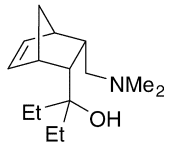
$C_{13}H_{23}NO$

2-((2*R*,3*S*)-3-((Dimethylamino)methyl)bicyclo[2.2.1]hept-5-en-2-yl)propan-2-ol

---

Cihangir Tanyeli,* Serhat Odabaş, Mine Erdem, Esen Çakır and Eda Keskin

Tetrahedron: Asymmetry *18 (2007) 2349*



Ee = 98%
$[\alpha]_D^{20} = +17.35$ (c 1.30, $CHCl_3$)
Source of chirality: asymmetric synthesis
Absolute configuration: (2*R*,3*S*)

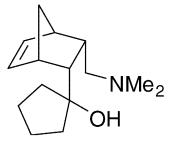
$C_{15}H_{27}NO$

3-((2*R*,3*S*)-3-((Dimethylamino)methyl)bicyclo[2.2.1]hept-5-en-2-yl)pentan-3-ol

---

Cihangir Tanyeli,* Serhat Odabaş, Mine Erdem, Esen Çakır and Eda Keskin

Tetrahedron: Asymmetry *18 (2007) 2349*



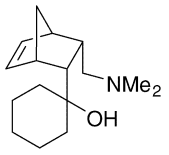
Ee = 98%
$[\alpha]_D^{20} = +11.1$ (c 2.56, $CHCl_3$)
Source of chirality: asymmetric synthesis
Absolute configuration: (2*R*,3*S*)

$C_{15}H_{25}NO$

1-((2*R*,3*S*)-3-((Dimethylamino)methyl)bicyclo[2.2.1]hept-5-en-2-yl)cyclopentanol

Cihangir Tanyeli,* Serhat Odabaş, Mine Erdem, Esen Çakır and Eda Keskin

Tetrahedron: Asymmetry *18 (2007) 2349*



Ee = 98%
$[\alpha]_D^{20} = +3.7$ (c 2.16, $CHCl_3$)
Source of chirality: asymmetric synthesis
Absolute configuration: (2*R*,3*S*)

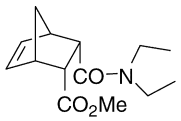
$C_{16}H_{27}NO$

1-((2*R*,3*S*)-3-((Dimethylamino)methyl)bicyclo[2.2.1]hept-5-en-2-yl)cyclohexanol

---

Cihangir Tanyeli,* Serhat Odabaş, Mine Erdem, Esen Çakır and Eda Keskin

Tetrahedron: Asymmetry *18 (2007) 2349*



Ee = 98%
$[\alpha]_D^{20} = -32.4$ (c 3.00, $CHCl_3$)
Source of chirality: asymmetric synthesis
Absolute configuration: (2*R*,3*S*)

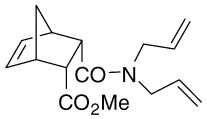
$C_{14}H_{21}NO_3$

(2*R*,3*S*)-Methyl 3-(diethylcarbamoyl)bicyclo[2.2.1]hept-5-ene-2-carboxylate

---

Cihangir Tanyeli,* Serhat Odabaş, Mine Erdem, Esen Çakır and Eda Keskin

Tetrahedron: Asymmetry *18 (2007) 2349*



Ee = 98%
$[\alpha]_D^{20} = -43.9$ (c 2.03, $CHCl_3$)
Source of chirality: asymmetric synthesis
Absolute configuration: (2*R*,3*S*)

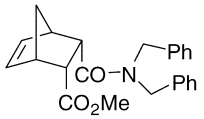
$C_{16}H_{21}NO_3$

(2*R*,3*S*)-Methyl 3-(diallylcarbamoyl)bicyclo[2.2.1]hept-5-ene-2-carboxylate

---

Cihangir Tanyeli,* Serhat Odabaş, Mine Erdem, Esen Çakır and Eda Keskin

Tetrahedron: Asymmetry *18 (2007) 2349*



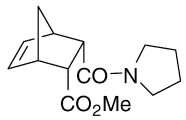
Ee = 98%
$[\alpha]_D^{20} = -34.9$ (c 2.03, $CHCl_3$)
Source of chirality: asymmetric synthesis
Absolute configuration: (2*R*,3*S*)

$C_{24}H_{25}NO_3$

(2*R*,3*S*)-Methyl 3-(dibenzylcarbamoyl)bicyclo[2.2.1]hept-5-ene-2-carboxylate

Cihangir Tanyeli,* Serhat Odabaş, Mine Erdem, Esen Çakır and Eda Keskin

Tetrahedron: Asymmetry *18 (2007) 2349*



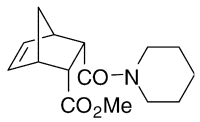
$C_{14}H_{19}NO_3$

(2*R*,3*S*)-Methyl 3-(pyrrolidine-1-carbonyl)bicyclo[2.2.1]hept-5-ene-2-carboxylate

Ee = 98%
$[\alpha]_D^{20} = -24.65$ (c 0.10, MeOH)
Source of chirality: asymmetric synthesis
Absolute configuration: (2*R*,3*S*)

Cihangir Tanyeli,* Serhat Odabaş, Mine Erdem, Esen Çakır and Eda Keskin

Tetrahedron: Asymmetry *18 (2007) 2349*



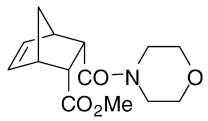
$C_{15}H_{21}NO_3$

(2*R*,3*S*)-Methyl 3-(piperidine-1-carbonyl)bicyclo[2.2.1]hept-5-ene-2-carboxylate

Ee = 98%
$[\alpha]_D^{20} = -21.95$ (c 2.00, MeOH)
Source of chirality: asymmetric synthesis
Absolute configuration: (2*R*,3*S*)

Cihangir Tanyeli,* Serhat Odabaş, Mine Erdem, Esen Çakır and Eda Keskin

Tetrahedron: Asymmetry *18 (2007) 2349*



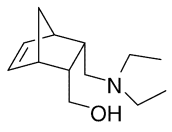
$C_{14}H_{19}NO_4$

(2*R*,3*S*)-Methyl 3-(morpholine-4-carbonyl)bicyclo[2.2.1]hept-5-ene-2-carboxylate

Ee = 98%
$[\alpha]_D^{20} = -32.2$ (c 0.20, MeOH)
Source of chirality: asymmetric synthesis
Absolute configuration: (2*R*,3*S*)

Cihangir Tanyeli,* Serhat Odabaş, Mine Erdem, Esen Çakır and Eda Keskin

Tetrahedron: Asymmetry *18 (2007) 2349*



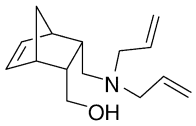
$C_{13}H_{23}NO$

((2*R*,3*S*)-3-((Dimethylamino)methyl)bicyclo[2.2.1]hept-5-en-2-yl)methanol

Ee = 98%
$[\alpha]_D^{20} = -6.4$ (c 1.80, $CHCl_3$)
Source of chirality: asymmetric synthesis
Absolute configuration: (2*R*,3*S*)

Cihangir Tanyeli,* Serhat Odabaş, Mine Erdem, Esen Çakır and Eda Keskin

Tetrahedron: Asymmetry *18 (2007) 2349*



$C_{15}H_{23}NO$

((2*R*,3*S*)-3-((Diallylamino)methyl)bicyclo[2.2.1]hept-5-en-2-yl)methanol

Ee = 98%

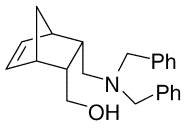
$[\alpha]_D^{20} = +15.7$ (c 1.00, $CHCl_3$)

Source of chirality: asymmetric synthesis

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

Cihangir Tanyeli,* Serhat Odabaş, Mine Erdem, Esen Çakır and Eda Keskin

Tetrahedron: Asymmetry *18 (2007) 2349*



$C_{23}H_{27}NO$

((2*R*,3*S*)-3-((Dibenzylamino)methyl)bicyclo[2.2.1]hept-5-en-2-yl)methanol

Ee = 98%

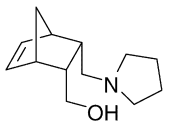
$[\alpha]_D^{20} = -33.0$ (c 2.00, $CHCl_3$)

Source of chirality: asymmetric synthesis

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

Cihangir Tanyeli,* Serhat Odabaş, Mine Erdem, Esen Çakır and Eda Keskin

Tetrahedron: Asymmetry *18 (2007) 2349*



$C_{13}H_{21}NO$

((2*R*,3*S*)-3-(Pyrrolidin-1-ylmethyl)bicyclo[2.2.1]hept-5-en-2-yl)methanol

Ee = 98%

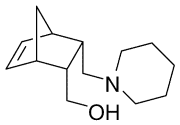
$[\alpha]_D^{20} = +1.6$ (c 2.00, MeOH)

Source of chirality: asymmetric synthesis

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

Cihangir Tanyeli,* Serhat Odabaş, Mine Erdem, Esen Çakır and Eda Keskin

Tetrahedron: Asymmetry *18 (2007) 2349*



$C_{14}H_{23}NO$

((2*R*,3*S*)-3-(Piperidin-1-ylmethyl)bicyclo[2.2.1]hept-5-en-2-yl)methanol

Ee = 98%

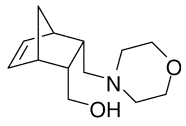
$[\alpha]_D^{20} = -3.6$ (c 2.00, MeOH)

Source of chirality: asymmetric synthesis

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

Cihangir Tanyeli,* Serhat Odabaş, Mine Erdem, Esen Çakır and Eda Keskin

Tetrahedron: Asymmetry *18 (2007) 2349*



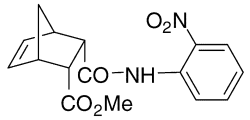
$C_{13}H_{21}NO_2$

((2*R*,3*S*)-3-(Morpholinomethyl)bicyclo[2.2.1]hept-5-en-2-yl)methanol

Ee = 98%
$[\alpha]_D^{20} = -4.3$ (c 2.00, $CHCl_3$)
Source of chirality: asymmetric synthesis
Absolute configuration: (2*R*,3*S*)

Cihangir Tanyeli,* Serhat Odabaş, Mine Erdem, Esen Çakır and Eda Keskin

Tetrahedron: Asymmetry *18 (2007) 2349*



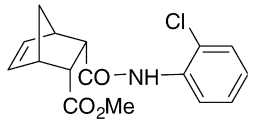
$C_{16}H_{16}N_2O_5$

(2*R*,3*S*)-Methyl 3-(2-nitrophenylcarbamoyl)bicyclo[2.2.1]hept-5-ene-2-carboxylate

Ee = 98%
$[\alpha]_D^{20} = +7.9$ (c 2.00, $CHCl_3$)
Source of chirality: asymmetric synthesis
Absolute configuration: (2*R*,3*S*)

Cihangir Tanyeli,* Serhat Odabaş, Mine Erdem, Esen Çakır and Eda Keskin

Tetrahedron: Asymmetry *18 (2007) 2349*



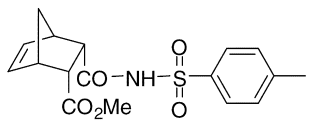
$C_{16}H_{16}ClNO_3$

(2*R*,3*S*)-Methyl 3-(2-chlorophenylcarbamoyl)bicyclo[2.2.1]hept-5-ene-2-carboxylate

Ee = 98%
$[\alpha]_D^{20} = +58.9$ (c 2.00, $CHCl_3$)
Source of chirality: asymmetric synthesis
Absolute configuration: (2*R*,3*S*)

Cihangir Tanyeli,* Serhat Odabaş, Mine Erdem, Esen Çakır and Eda Keskin

Tetrahedron: Asymmetry *18 (2007) 2349*



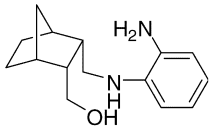
$C_{17}H_{19}NO_5S$

(2*R*,3*S*)-Methyl 3-(tosylcarbamoyl)bicyclo[2.2.1]hept-5-ene-2-carboxylate

Ee = 98%
$[\alpha]_D^{20} = +16.7$ (c 2.00, $CHCl_3$)
Source of chirality: asymmetric synthesis
Absolute configuration: (2*R*,3*S*)

Cihangir Tanyeli,* Serhat Odabaş, Mine Erdem, Esen Çakır and Eda Keskin

Tetrahedron: Asymmetry *18 (2007) 2349*



Ee = 98%
$[\alpha]_D^{20} = -116.0$ (c 0.10, $CHCl_3$)
Source of chirality: asymmetric synthesis
Absolute configuration: (2*R*,3*S*)

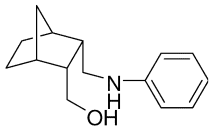
$C_{15}H_{22}N_2O$

((2*R*,3*S*)-3-((2-Aminophenylamino)methyl)bicyclo[2.2.1]heptan-2-yl)methanol

---

Cihangir Tanyeli,* Serhat Odabaş, Mine Erdem, Esen Çakır and Eda Keskin

Tetrahedron: Asymmetry *18 (2007) 2349*



Ee = 98%
$[\alpha]_D^{20} = +5.1$ (c 2.00, $CHCl_3$)
Source of chirality: asymmetric synthesis
Absolute configuration: (2*R*,3*S*)

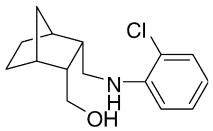
$C_{15}H_{21}NO$

((2*R*,3*S*)-3-((Phenylamino)methyl)bicyclo[2.2.1]heptan-2-yl)methanol

---

Cihangir Tanyeli,* Serhat Odabaş, Mine Erdem, Esen Çakır and Eda Keskin

Tetrahedron: Asymmetry *18 (2007) 2349*



Ee = 98%
$[\alpha]_D^{20} = +10.8$ (c 2.00, $CHCl_3$)
Source of chirality: asymmetric synthesis
Absolute configuration: (2*R*,3*S*)

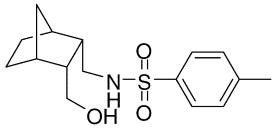
$C_{15}H_{20}ClNO$

((2*R*,3*S*)-3-((2-Chlorophenylamino)methyl)bicyclo[2.2.1]heptan-2-yl)methanol

---

Cihangir Tanyeli,* Serhat Odabaş, Mine Erdem, Esen Çakır and Eda Keskin

Tetrahedron: Asymmetry *18 (2007) 2349*



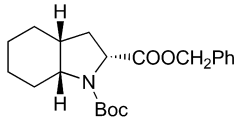
Ee = 98%
$[\alpha]_D^{20} = -13.2$ (c 1.00, $CHCl_3$)
Source of chirality: asymmetric synthesis
Absolute configuration: (2*S*,3*R*)

$C_{16}H_{23}NO_3S$

N-(((2*S*,3*R*)-3-(Hydroxymethyl)bicyclo[2.2.1]heptan-2-yl)methyl)-4-methylbenzenesulfonamide

Francisco J. Sayago, Ana I. Jiménez and Carlos Cativiela*

Tetrahedron: Asymmetry *18 (2007) 2358*



Ee >99%
$[\alpha]_D = +38.1$ (*c* 0.96, $CHCl_3$)
Source of chirality: resolution by chiral HPLC
Absolute configuration: (2*R*,3a*R*,7a*R*)

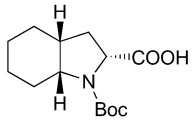
$C_{21}H_{29}NO_4$

Benzyl (2*R*,3a*R*,7a*R*)-*N*-(*tert*-butoxycarbonyl)octahydroindole-2-carboxylate

---

Francisco J. Sayago, Ana I. Jiménez and Carlos Cativiela*

Tetrahedron: Asymmetry *18 (2007) 2358*



Ee >99%
$[\alpha]_D = +22.6$ (*c* 0.50, MeOH)
Source of chirality: resolution by chiral HPLC
Absolute configuration: (2*R*,3a*R*,7a*R*)

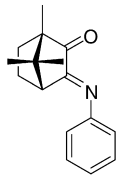
$C_{14}H_{23}NO_4$

(2*R*,3a*R*,7a*R*)-*N*-(*tert*-Butoxycarbonyl)octahydroindole-2-carboxylic acid

---

Uroš Grošelj, Anton Meden, Branko Stanovnik and Jurij Svete*

Tetrahedron: Asymmetry *18 (2007) 2365*



De = 100%
$[\alpha]_D^{23} = -652.1$ (*c* 0.14, $CHCl_3$)
Source of chirality: (1*S*)-(+)-camphorquinone
Absolute configuration: (1*S*,3*E*,4*R*)
E:*Z* = 96:4

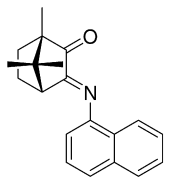
$C_{16}H_{19}NO$

(1*S*,3*E*,4*R*)-1,7,7-Trimethyl-3-(phenylimino)bicyclo[2.2.1]heptan-2-one

---

Uroš Grošelj, Anton Meden, Branko Stanovnik and Jurij Svete*

Tetrahedron: Asymmetry *18 (2007) 2365*



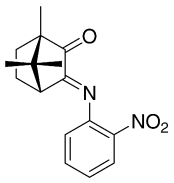
De = 100%
$[\alpha]_D^{23} = -620.8$ (*c* 0.11, $CHCl_3$)
Source of chirality: (1*S*)-(+)-camphorquinone
Absolute configuration: (1*S*,3*E*,4*R*)
E:*Z* = 97:3

$C_{20}H_{21}NO$

(1*S*,3*E*,4*R*)-1,7,7-Trimethyl-3-[(1-naphthyl)imino]bicyclo[2.2.1]heptan-2-one

Uroš Grošelj, Anton Meden, Branko Stanovnik and Jurij Svete*

Tetrahedron: Asymmetry *18 (2007) 2365*

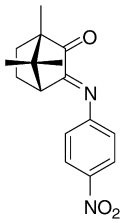


De = 100%
$[\alpha]_D^{23} = -94.6$ (*c* 0.11, $CHCl_3$)
Source of chirality: (1*S*)-(+)-camphorquinone
Absolute configuration: (1*S*,3*E*,4*R*)
E:*Z* = 75:25

$C_{16}H_{18}N_2O_3$
(1*S*,3*E*,4*R*)-1,7,7-Trimethyl-3-[(2-nitrophenyl)imino]bicyclo[2.2.1]heptan-2-one

Uroš Grošelj, Anton Meden, Branko Stanovnik and Jurij Svete*

Tetrahedron: Asymmetry *18 (2007) 2365*

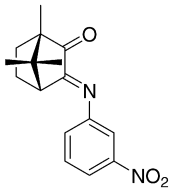


De = 100%
$[\alpha]_D^{23} = -358.2$ (*c* 0.17, $CHCl_3$)
Source of chirality: (1*S*)-(+)-camphorquinone
Absolute configuration: (1*S*,3*E*,4*R*)
E:*Z* = 90:10

$C_{16}H_{18}N_2O_3$
(1*S*,3*E*,4*R*)-1,7,7-Trimethyl-3-[(4-nitrophenyl)imino]bicyclo[2.2.1]heptan-2-one

Uroš Grošelj, Anton Meden, Branko Stanovnik and Jurij Svete*

Tetrahedron: Asymmetry *18 (2007) 2365*

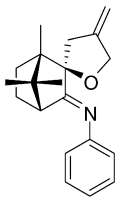


De = 100%
$[\alpha]_D^{23} = -377.3$ (*c* 0.11, $CHCl_3$)
Source of chirality: (1*S*)-(+)-camphorquinone
Absolute configuration: (1*S*,3*E*,4*R*)
E:*Z* = 89:11

$C_{16}H_{18}N_2O_3$
(1*S*,3*E*,4*R*)-1,7,7-Trimethyl-3-[(3-nitrophenyl)imino]bicyclo[2.2.1]heptan-2-one

Uroš Grošelj, Anton Meden, Branko Stanovnik and Jurij Svete*

Tetrahedron: Asymmetry *18 (2007) 2365*

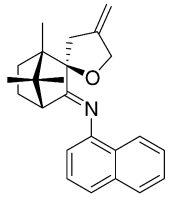


De = 100%
$[\alpha]_D^{26} = -18.0$ (*c* 0.16, $CHCl_3$)
Source of chirality: (1*S*)-(+)-camphorquinone
Absolute configuration: (1*S*,2*R*,4*R*)

$C_{20}H_{25}NO$
(3*E*)-*N*-{(1*S*,2*R*,4*R*)-1,7,7-Trimethyl-4′-methylenedihydro-3′*H*- spiro[bicyclo[2.2.1]heptane-2,2′-furan]-3-ylidene}aniline

Uroš Grošelj, Anton Meden, Branko Stanovnik and Jurij Svete*

Tetrahedron: Asymmetry *18 (2007) 2365*



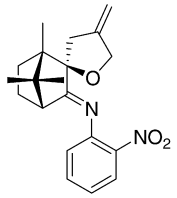
De = 100%
$[\alpha]_D^{26} = -36.8$ (*c* 0.19, $CHCl_3$)
Source of chirality: (1*S*)-(+)-camphorquinone
Absolute configuration: (1*S*,2*R*,4*R*)

$C_{24}H_{27}NO$

(3*E*)-*N*-{(1*S*,2*R*,4*R*)-1,7,7-Trimethyl-4′-methylenedihydro-3′*H*-spiro[bicyclo[2.2.1]heptane-2,2′-furan]-3-ylidene}naphthalen-1-amine

Uroš Grošelj, Anton Meden, Branko Stanovnik and Jurij Svete*

Tetrahedron: Asymmetry *18 (2007) 2365*



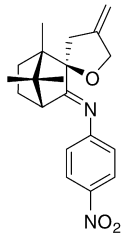
De = 100%
$[\alpha]_D^{23} = +133.9$ (*c* 0.24, $CHCl_3$)
Source of chirality: (1*S*)-(+)-camphorquinone
Absolute configuration: (1*S*,2*R*,4*R*)

$C_{20}H_{24}N_2O_3$

(3*E*)-2-Nitro-*N*-{(1*S*,2*R*,4*R*)-1,7,7-trimethyl-4′-methylenedihydro-3′*H*-spiro[bicyclo[2.2.1]heptane-2,2′-furan]-3-ylidene}aniline

Uroš Grošelj, Anton Meden, Branko Stanovnik and Jurij Svete*

Tetrahedron: Asymmetry *18 (2007) 2365*



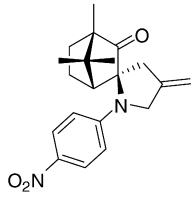
De = 100%
$[\alpha]_D^{23} = +32.8$ (*c* 0.19, $CHCl_3$)
Source of chirality: (1*S*)-(+)-camphorquinone
Absolute configuration: (1*S*,2*R*,4*R*)

$C_{20}H_{24}N_2O_3$

(3*E*)-4-Nitro-*N*-{(1*S*,2*R*,4*R*)-1,7,7-trimethyl-4′-methylenedihydro-3′*H*-spiro[bicyclo[2.2.1]heptane-2,2′-furan]-3-ylidene}aniline

Uroš Grošelj, Anton Meden, Branko Stanovnik and Jurij Svete*

Tetrahedron: Asymmetry *18 (2007) 2365*



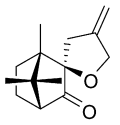
De = 100%
$[\alpha]_D^{23} = -237.5$ (*c* 0.12, $CHCl_3$)
Source of chirality: (1*S*)-(+)-camphorquinone
Absolute configuration: (1*S*,3*S*,4*R*)

$C_{20}H_{24}N_2O_3$

(1*S*,3*S*,4*R*)-1,7,7-Trimethyl-4′-methylene-1′-(4-nitrophenyl)spiro[bicyclo[2.2.1]heptane-3,2′-pyrrolidin]-2-one

Uroš Grošelj, Anton Meden, Branko Stanovnik and Jurij Svete*

Tetrahedron: Asymmetry *18 (2007) 2365*

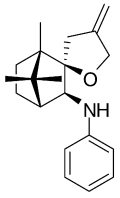


De = 100%
$[\alpha]_D^{27} = +122.8$ (*c* 0.23, $CHCl_3$)
Source of chirality: (1*S*)-(+)-camphorquinone
Absolute configuration: (1*S*,2*R*,4*R*)

$C_{14}H_{20}O_2$
(1*S*,2*R*,4*R*)-1,7,7-Trimethyl-4′-methylenedihydro-3′*H*-spiro[bicyclo[2.2.1]heptane-2,2′-furan]-3-one

Uroš Grošelj, Anton Meden, Branko Stanovnik and Jurij Svete*

Tetrahedron: Asymmetry *18 (2007) 2365*

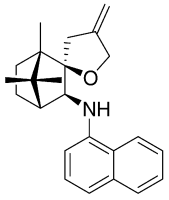


De = 100%
$[\alpha]_{589}^{27} = +141.5$ (*c* 0.27, $CHCl_3$)
Source of chirality: (1*S*)-(+)-camphorquinone
Absolute configuration: (1*S*,2*R*,3*S*,4*R*)

$C_{20}H_{27}NO$
(1*S*,2*R*,3*S*,4*R*)-1,7,7-Trimethyl-4′-methylene-*N*-phenyldihydro-3′*H*-spiro[bicyclo[2.2.1]heptane-2,2′-furan]-3-amine

Uroš Grošelj, Anton Meden, Branko Stanovnik and Jurij Svete*

Tetrahedron: Asymmetry *18 (2007) 2365*

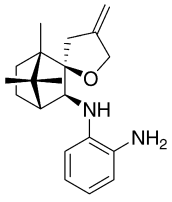


De = 100%
$[\alpha]_{589}^{25} = +211.6$ (*c* 0.07, $CHCl_3$)
Source of chirality: (1*S*)-(+)-camphorquinone
Absolute configuration: (1*S*,2*R*,3*S*,4*R*)

$C_{24}H_{29}NO$
(1*S*,2*R*,3*S*,4*R*)-1,7,7-Trimethyl-4′-methylene-*N*-(naphthalen-1-yl)dihydro-3′*H*-spiro[bicyclo[2.2.1]heptane-2,2′-furan]-3-amine

Uroš Grošelj, Anton Meden, Branko Stanovnik and Jurij Svete*

Tetrahedron: Asymmetry *18 (2007) 2365*

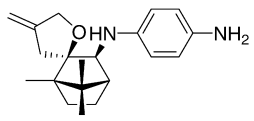


De = 100%
$[\alpha]_{589}^{25} = +150.0$ (*c* 0.09, $CHCl_3$)
Source of chirality: (1*S*)-(+)-camphorquinone
Absolute configuration: (1*S*,2*R*,3*S*,4*R*)

$C_{20}H_{28}N_2O$
N^1-{(1*S*,2*R*,3*S*,4*R*)-1,7,7-Trimethyl-4′-methylenedihydro-3′*H*-spiro[bicyclo[2.2.1]heptane-2,2′-furan]-3-yl}benzene-1,2-diamine

Uroš Grošelj, Anton Meden, Branko Stanovnik and Jurij Svete*

Tetrahedron: Asymmetry *18 (2007) 2365*



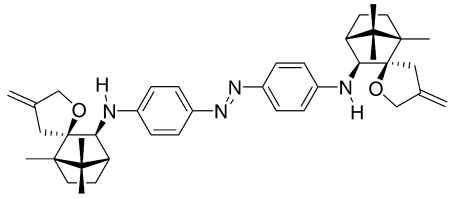
De = 100%
$[\alpha]_{589}^{25} = +417.2$ (*c* 0.06, $CHCl_3$)
Source of chirality: (1*S*)-(+)-camphorquinone
Absolute configuration: (1*S*,2*R*,3*S*,4*R*)

$C_{20}H_{28}N_2O$

N^1-{(1*S*,2*R*,3*S*,4*R*)-1,7,7-Trimethyl-4′-methylenedihydro-3′*H*-spiro[bicyclo[2.2.1]heptane-2,2′-furan]-3-yl}benzene-1,4-diamine

Uroš Grošelj, Anton Meden, Branko Stanovnik and Jurij Svete*

Tetrahedron: Asymmetry *18 (2007) 2365*



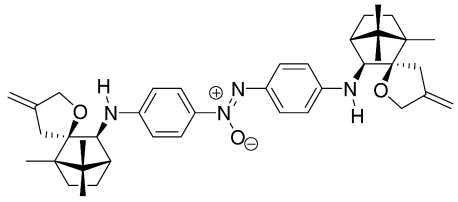
De = 100%
$[\alpha]_{589}^{25} = +100.0$ (*c* 0.04, $CHCl_3$)
Source of chirality: (1*S*)-(+)-camphorquinone
Absolute configuration: (1*S*,2*R*,3*S*,4*R*)

$C_{40}H_{52}N_4O_2$

(*E*)-1,2-Bis(4-{(1*S*,2*R*,3*S*,4*R*)-1,7,7-trimethyl-4′-methylenedihydro-3′*H*-spiro[bicyclo[2.2.1]heptane-2,2′-furan]-3-ylamino}phenyl)-diazene

Uroš Grošelj, Anton Meden, Branko Stanovnik and Jurij Svete*

Tetrahedron: Asymmetry *18 (2007) 2365*



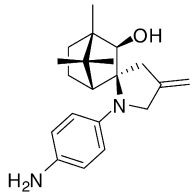
De = 100%
$[\alpha]_{589}^{25} = +85.3$ (*c* 0.03, $CHCl_3$)
Source of chirality: (1*S*)-(+)-camphorquinone
Absolute configuration: (1*S*,2*R*,3*S*,4*R*)

$C_{40}H_{52}N_4O_3$

(*E*)-1,2-Bis(4-{(1*S*,2*R*,3*S*,4*R*)-1,7,7-trimethyl-4′-methylenedihydro-3′*H*-spiro[bicyclo[2.2.1]heptane-2,2′-furan]-3-ylamino}phenyl)-diazene oxide

Uroš Grošelj, Anton Meden, Branko Stanovnik and Jurij Svete*

Tetrahedron: Asymmetry *18 (2007) 2365*



De = 76%
$[\alpha]_{589}^{26} = -80.2$ (*c* 0.17, $CHCl_3$)
Source of chirality: (1*S*)-(+)-camphorquinone
Absolute configuration: (1*R*,2*S*,3*R*,4*S*)

$C_{20}H_{28}N_2O$

(1*R*,2*S*,3*R*,4*S*)-1′-(4-Aminophenyl)-4,7,7-trimethyl-4′-methylenespiro[bicyclo[2.2.1]heptane-2,2′-pyrrolidin]-3-ol