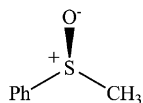


Stereochemistry abstracts

Fabio Pezzotti and Michel Therisod*

Tetrahedron: Asymmetry 18 (2007) 701



C_7H_8OS

Methyl-phenyl-sulfoxide

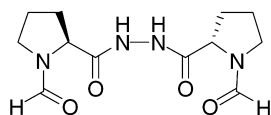
Ee = 75–78% ee

Source of chirality: asymmetric enzymatic catalysis

Absolute configuration: (S)

Zhouyu Wang, Siyu Wei, Chao Wang and Jian Sun*

Tetrahedron: Asymmetry 18 (2007) 705



$C_{12}H_{18}N_4O_4$

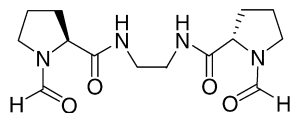
N,N'-Di-(*N*-formyl-L-prolyl)-hydrazine

Ee = 100%

$[\alpha]_D^{20} = -137.04$ (c 0.108, EtOH)

Zhouyu Wang, Siyu Wei, Chao Wang and Jian Sun*

Tetrahedron: Asymmetry 18 (2007) 705



$C_{14}H_{22}N_4O_4$

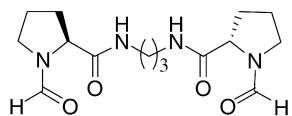
N,N'-Di-(*N*-formyl-L-prolyl)-ethane-1,2-diamine

Ee = 100%

$[\alpha]_D^{20} = -81.25$ (c 0.16, EtOH)

Zhouyu Wang, Siyu Wei, Chao Wang and Jian Sun*

Tetrahedron: Asymmetry 18 (2007) 705



$C_{15}H_{24}N_4O_4$

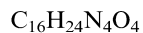
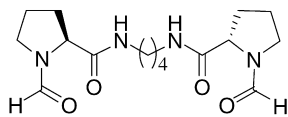
N,N'-Di-(*N*-formyl-L-prolyl)-propane-1,3-diamine

Ee = 100%

$[\alpha]_D^{20} = -89.04$ (c 0.132, EtOH)

Zhouyu Wang, Siyu Wei, Chao Wang and Jian Sun*

Tetrahedron: Asymmetry 18 (2007) 705



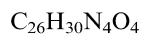
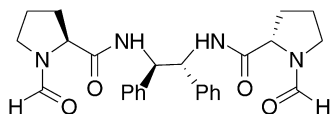
N,N'-Di-(*N*-formyl-L-prolyl)-butane-1,4-diamine

Ee = 100%

$[\alpha]_D^{20} = -111.03$ (*c* 0.136, EtOH)

Zhouyu Wang, Siyu Wei, Chao Wang and Jian Sun*

Tetrahedron: Asymmetry 18 (2007) 705



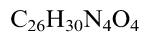
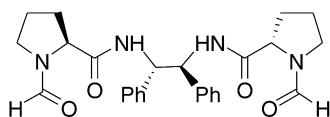
N,N'-Di-(*N*-formyl-L-prolyl)-(1*S*,2*S*)-1,2-diphenylethane-1,2-diamine

Ee = 100%

$[\alpha]_D^{20} = -61.54$ (*c* 0.104, MeOH)

Zhouyu Wang, Siyu Wei, Chao Wang and Jian Sun*

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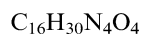
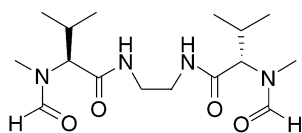
N,N'-Di-(*N*-formyl-L-prolyl)-(1*R*,2*R*)-1,2-diphenylethane-1,2-diamine

Ee = 100%

$[\alpha]_D^{20} = -127.88$ (*c* 0.104, MeOH)

Zhouyu Wang, Siyu Wei, Chao Wang and Jian Sun*

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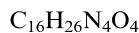
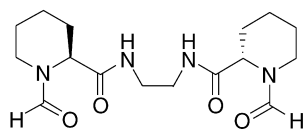
N,N'-Di-(*N*-methylformyl-L-valinyl)-ethane-1,2-diamine

Ee = 100%

$[\alpha]_D^{20} = -71.07$ (*c* 0.242, CH₃OH)

Zhouyu Wang, Siyu Wei, Chao Wang and Jian Sun*

Tetrahedron: Asymmetry 18 (2007) 705



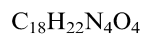
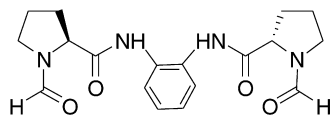
N,N'-Di-(*N*-formyl-L-piperidyl)-ethane-1,2-diamine

Ee = 100%

$[\alpha]_D^{20} = -114.4$ (*c* 0.104, EtOH)

Zhouyu Wang, Siyu Wei, Chao Wang and Jian Sun*

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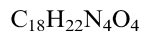
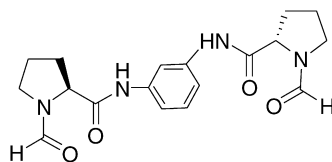
N,N'-Di-(*N*-formyl-L-prolyl)-benzene-1,2-diamine

Ee = 100%

$[\alpha]_D^{20} = -69.5$ (*c* 0.154, EtOH)

Zhouyu Wang, Siyu Wei, Chao Wang and Jian Sun*

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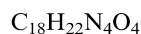
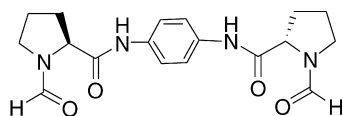
N,N'-Di-(*N*-formyl-L-prolyl)-benzene-1,3-diamine

Ee = 100%

$[\alpha]_D^{20} = -160.0$ (*c* 0.14, EtOH)

Zhouyu Wang, Siyu Wei, Chao Wang and Jian Sun*

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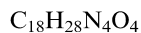
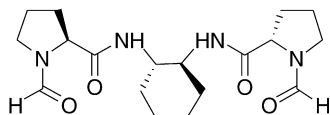
N,N'-Di-(*N*-formyl-L-prolyl)-benzene-1,4-diamine

Ee = 100%

$[\alpha]_D^{20} = -194.0$ (*c* 0.1, EtOH)

Zhouyu Wang, Siyu Wei, Chao Wang and Jian Sun*

Tetrahedron: Asymmetry 18 (2007) 705



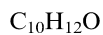
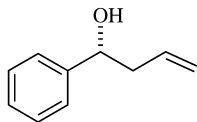
N,N'-Di-(*N*-formyl-L-prolyl)-(1*S*,2*S*)-cyclohexane-1,2-diamine

Ee = 100%

$[\alpha]_D^{20} = -148.28$ (*c* 0.160, EtOH)

Ling-yan Liu, Jing Sun, Nan Liu, Wei-xing Chang and Jing Li*

Tetrahedron: Asymmetry 18 (2007) 710



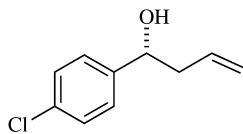
(*R*)-(+)-1-Phenyl-3-buten-1-ol

$[\alpha]_D^{20} = +22.3$ (*c* 2, benzene)

Absolute configuration: (*R*)

Ling-yan Liu, Jing Sun, Nan Liu, Wei-xing Chang and Jing Li*

Tetrahedron: Asymmetry 18 (2007) 710



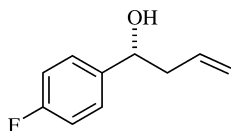
(*R*)-(+)-1-(*p*-Chlorophenyl)-3-buten-1-ol

$[\alpha]_D^{20} = +15.5$ (*c* 2.4, benzene)

Absolute configuration: (*R*)

Ling-yan Liu, Jing Sun, Nan Liu, Wei-xing Chang and Jing Li*

Tetrahedron: Asymmetry 18 (2007) 710



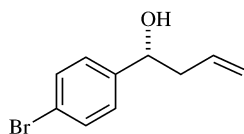
(*R*)-(+)-1-(*p*-Fluorophenyl)-3-buten-1-ol

$[\alpha]_D^{20} = +21.5$ (*c* 2, $CHCl_3$)

Absolute configuration: (*R*)

Ling-yan Liu, Jing Sun, Nan Liu, Wei-xing Chang and Jing Li*

Tetrahedron: Asymmetry 18 (2007) 710



$C_{10}H_{11}BrO$

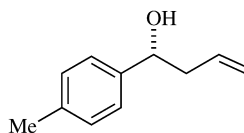
(R)-(+)-1-(p-Bromophenyl)-3-buten-1-ol

$[\alpha]_D^{20} = +12.6$ (c 3.5, benzene)

Absolute configuration: (R)

Ling-yan Liu, Jing Sun, Nan Liu, Wei-xing Chang and Jing Li*

Tetrahedron: Asymmetry 18 (2007) 710



$C_{11}H_{14}O$

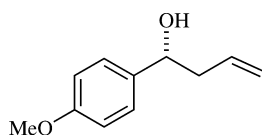
(R)-(+)-1-(p-Methylphenyl)-3-buten-1-ol

$[\alpha]_D^{20} = +15.5$ (c 2, benzene)

Absolute configuration: (R)

Ling-yan Liu, Jing Sun, Nan Liu, Wei-xing Chang and Jing Li*

Tetrahedron: Asymmetry 18 (2007) 710



$C_{11}H_{14}O_2$

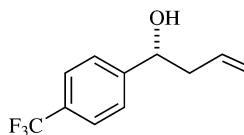
(R)-(+)-1-(p-Methoxyphenyl)-3-buten-1-ol

$[\alpha]_D^{20} = +15.4$ (c 2, benzene)

Absolute configuration: (R)

Ling-yan Liu, Jing Sun, Nan Liu, Wei-xing Chang and Jing Li*

Tetrahedron: Asymmetry 18 (2007) 710



$C_{11}H_9F_3O$

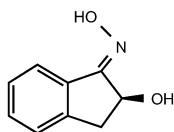
(R)-(+)-1-(p-Trifluorophenyl)-3-buten-1-ol

$[\alpha]_D^{20} = +14.2$ (c 1.7, $CHCl_3$)

Absolute configuration: (R)

Jhillu S. Yadav, Garudammagari S. K. K. Reddy, Gowravaram Sabitha, Avvaru D. Krishna, Attaluri R. Prasad, Hafeez-U-R-Rahaman, Katta Vishwaswar Rao and Adari Bhaskar Rao*

Tetrahedron: Asymmetry 18 (2007) 717



(*R*)-2-Hydroxy-1-indanone-oxime

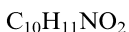
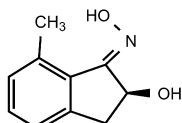
Ee = 80% (*D. carota*)

$[\alpha]_D^{25} = +48.2$ (*c* 0.8, MeOH)

Absolute configuration: (*R*)

Jhillu S. Yadav, Garudammagari S. K. K. Reddy, Gowravaram Sabitha, Avvaru D. Krishna, Attaluri R. Prasad, Hafeez-U-R-Rahaman, Katta Vishwaswar Rao and Adari Bhaskar Rao*

Tetrahedron: Asymmetry 18 (2007) 717



7-Methyl-(*R*)-2-hydroxy-1-indanone-oxime

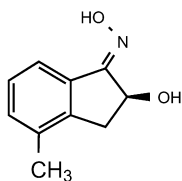
Ee = 88% (*D. carota*)

$[\alpha]_D^{25} = +58.5$ (*c* 0.7, MeOH)

Absolute configuration: (*R*)

Jhillu S. Yadav, Garudammagari S. K. K. Reddy, Gowravaram Sabitha, Avvaru D. Krishna, Attaluri R. Prasad, Hafeez-U-R-Rahaman, Katta Vishwaswar Rao and Adari Bhaskar Rao*

Tetrahedron: Asymmetry 18 (2007) 717



4-Methyl-(*R*)-2-hydroxy-1-indanone-oxime

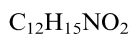
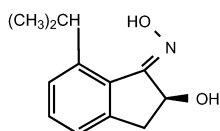
Ee = 85% (*D. carota*)

$[\alpha]_D^{25} = +78.5$ (*c* 0.9, MeOH)

Absolute configuration: (*R*)

Jhillu S. Yadav, Garudammagari S. K. K. Reddy, Gowravaram Sabitha, Avvaru D. Krishna, Attaluri R. Prasad, Hafeez-U-R-Rahaman, Katta Vishwaswar Rao and Adari Bhaskar Rao*

Tetrahedron: Asymmetry 18 (2007) 717



7-Isopropyl-(*R*)-2-hydroxy-1-indanone-oxime

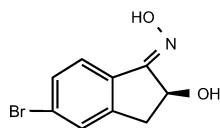
Ee = 88% (*D. carota*)

$[\alpha]_D^{25} = +23.5$ (*c* 1.0, MeOH)

Absolute configuration: (*R*)

Jhillu S. Yadav, Garudammagari S. K. K. Reddy, Gowravaram Sabitha, Avvaru D. Krishna, Attaluri R. Prasad, Hafeez-U-R-Rahaman, Katta Vishwaswar Rao and Adari Bhaskar Rao*

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5-Bromo-(*R*)-2-hydroxy-1-indanone-oxime

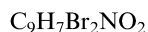
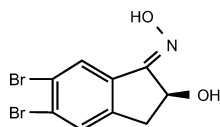
Ee = 80% (*D. carota*)

$[\alpha]_D^{25} = +39.5$ (c 0.6, MeOH)

Absolute configuration: (*R*)

Jhillu S. Yadav, Garudammagari S. K. K. Reddy, Gowravaram Sabitha, Avvaru D. Krishna, Attaluri R. Prasad, Hafeez-U-R-Rahaman, Katta Vishwaswar Rao and Adari Bhaskar Rao*

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5,6-Bromo-(*R*)-2-hydroxy-1-indanone-oxime

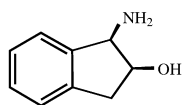
Ee = 80% (*D. carota*)

$[\alpha]_D^{25} = +52.5$ (c 0.9, MeOH)

Absolute configuration: (*R*)

Jhillu S. Yadav, Garudammagari S. K. K. Reddy, Gowravaram Sabitha, Avvaru D. Krishna, Attaluri R. Prasad, Hafeez-U-R-Rahaman, Katta Vishwaswar Rao and Adari Bhaskar Rao*

Tetrahedron: Asymmetry 18 (2007) 717



cis-(1*R*,2*S*)-1-Amino-2-indanol

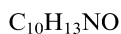
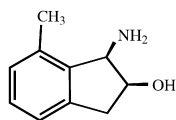
Ee = 99% (*D. carota*)

$[\alpha]_D^{25} = +56.6$ (c 0.8, MeOH)

Absolute configuration: (*S*)

Jhillu S. Yadav, Garudammagari S. K. K. Reddy, Gowravaram Sabitha, Avvaru D. Krishna, Attaluri R. Prasad, Hafeez-U-R-Rahaman, Katta Vishwaswar Rao and Adari Bhaskar Rao*

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7-Methyl-*cis*-(1*R*,2*S*)-1-amino-2-indanol

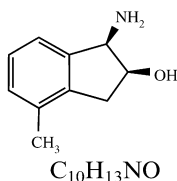
Ee = 98% (*D. carota*)

$[\alpha]_D^{25} = -112.2$ (c 0.6, CHCl₃)

Absolute configuration: (*S*)

Jhillu S. Yadav, Garudammagari S. K. K. Reddy, Gowravaram Sabitha, Avvaru D. Krishna, Attaluri R. Prasad, Hafeez-U-R-Rahaman, Katta Vishwaswar Rao and Adari Bhaskar Rao*

Tetrahedron: Asymmetry 18 (2007) 717

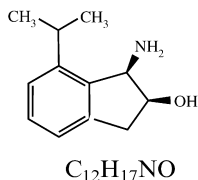


4-Methyl-*cis*-(1*R*,2*S*)-1-amino-2-indanol

Ee = 95% (*D. carota*)
 $[\alpha]_D^{25} = -29.6$ (*c* 0.6, $CHCl_3$)
 Absolute configuration: (*S*)

Jhillu S. Yadav, Garudammagari S. K. K. Reddy, Gowravaram Sabitha, Avvaru D. Krishna, Attaluri R. Prasad, Hafeez-U-R-Rahaman, Katta Vishwaswar Rao and Adari Bhaskar Rao*

Tetrahedron: Asymmetry 18 (2007) 717

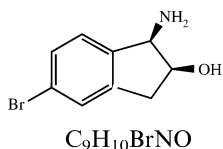


7-Isopropyl-*cis*-(1*R*,2*S*)-1-amino-2-indanol

Ee = 90% (*D. carota*)
 $[\alpha]_D^{25} = -113.1$ (*c* 0.5, $CHCl_3$)
 Absolute configuration: (1*R*,2*S*)

Jhillu S. Yadav, Garudammagari S. K. K. Reddy, Gowravaram Sabitha, Avvaru D. Krishna, Attaluri R. Prasad, Hafeez-U-R-Rahaman, Katta Vishwaswar Rao and Adari Bhaskar Rao*

Tetrahedron: Asymmetry 18 (2007) 717

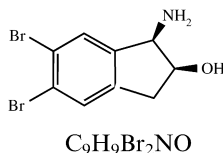


5-Bromo-*cis*-(1*R*,2*S*)-1-amino-2-indanol

Ee = 95% (*D. carota*)
 $[\alpha]_D^{25} = -32.1$ (*c* 0.8, MeOH)
 Absolute configuration: (1*R*,2*S*)

Jhillu S. Yadav, Garudammagari S. K. K. Reddy, Gowravaram Sabitha, Avvaru D. Krishna, Attaluri R. Prasad, Hafeez-U-R-Rahaman, Katta Vishwaswar Rao and Adari Bhaskar Rao*

Tetrahedron: Asymmetry 18 (2007) 717

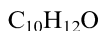
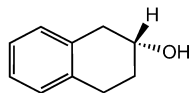


5,6-Dibromo-*cis*-(1*R*,2*S*)-1-amino-2-indanol

Ee = 96% (*D. carota*)
 $[\alpha]_D^{25} = -33.5$ (*c* 1.5, $CHCl_3$)
 Absolute configuration: (1*R*,2*S*)

Jhillu S. Yadav, Garudammagari S. K. K. Reddy, Gowravaram Sabitha, Avvaru D. Krishna, Attaluri R. Prasad, Hafeez-U-R-Rahaman, Katta Vishwaswar Rao and Adari Bhaskar Rao*

Tetrahedron: Asymmetry 18 (2007) 717



2-Tetralol

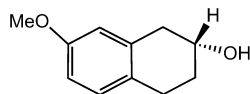
Ee = 85% (*D. carota*)

$[\alpha]_D^{25} = -19.2$ (c 0.9, $CHCl_3$)

Absolute configuration: (*S*)

Jhillu S. Yadav, Garudammagari S. K. K. Reddy, Gowravaram Sabitha, Avvaru D. Krishna, Attaluri R. Prasad, Hafeez-U-R-Rahaman, Katta Vishwaswar Rao and Adari Bhaskar Rao*

Tetrahedron: Asymmetry 18 (2007) 717



7-Methoxy-2-tetralol

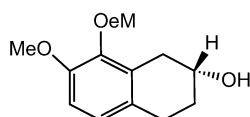
Ee = 70% (*D. carota*)

$[\alpha]_D^{25} = +16.1$ (c 1.0, $CHCl_3$)

Absolute configuration: (*S*)

Jhillu S. Yadav, Garudammagari S. K. K. Reddy, Gowravaram Sabitha, Avvaru D. Krishna, Attaluri R. Prasad, Hafeez-U-R-Rahaman, Katta Vishwaswar Rao and Adari Bhaskar Rao*

Tetrahedron: Asymmetry 18 (2007) 717



7,8-Dimethoxy-2-tetralol

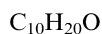
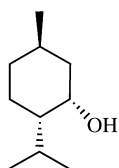
Ee = 80% (*D. carota*)

$[\alpha]_D^{25} = +19.1$ (c 0.43, $CHCl_3$)

Absolute configuration: (*S*)

Jhillu S. Yadav, Garudammagari S. K. K. Reddy, Gowravaram Sabitha, Avvaru D. Krishna, Attaluri R. Prasad, Hafeez-U-R-Rahaman, Katta Vishwaswar Rao and Adari Bhaskar Rao*

Tetrahedron: Asymmetry 18 (2007) 717



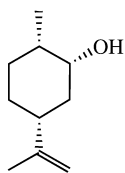
Neomenthol

Ee = 99% (*D. carota*)

$[\alpha]_D^{25} = -21.2$ (c 0.21, $CHCl_3$)

Jhillu S. Yadav, Garudammagari S. K. K. Reddy, Gowravaram Sabitha, Avvaru D. Krishna, Attaluri R. Prasad, Hafeez-U-R-Rahaman, Katta Vishwaswar Rao and Adari Bhaskar Rao*

Tetrahedron: Asymmetry 18 (2007) 717



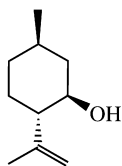
$C_{10}H_{18}O$

Neoisodihydrocarveol

Ee = 95% (*D. carota*)
 $[\alpha]_D^{25} = -18.08$ (*c* 0.71, $CHCl_3$)

Jhillu S. Yadav, Garudammagari S. K. K. Reddy, Gowravaram Sabitha, Avvaru D. Krishna, Attaluri R. Prasad, Hafeez-U-R-Rahaman, Katta Vishwaswar Rao and Adari Bhaskar Rao*

Tetrahedron: Asymmetry 18 (2007) 717



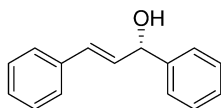
$C_{10}H_{18}O$

Isopulegol

Ee = 90% (*D. carota*)
 $[\alpha]_D^{25} = -22.1$ (*c* 0.91, $CHCl_3$)

Zhuo Chai, Xin-Yuan Liu, Jun-Kang Zhang and Gang Zhao*

Tetrahedron: Asymmetry 18 (2007) 724



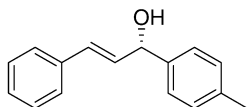
$C_{15}H_{14}O$

(1*S*)-(E)-1,3-Diphenylprop-2-en-1-ol

Ee = 96%
 $[\alpha]_D^{24} = -31.5$ (*c* 0.75, $CHCl_3$)
 Source of chirality: asymmetric synthesis
 Absolute configuration: (*S*)

Zhuo Chai, Xin-Yuan Liu, Jun-Kang Zhang and Gang Zhao*

Tetrahedron: Asymmetry 18 (2007) 724



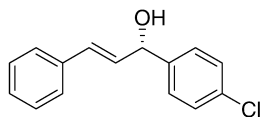
$C_{16}H_{16}O$

(1*S*)-(E)-3-Phenyl-1-*p*-tolylprop-2-en-1-ol

Ee = 92%
 $[\alpha]_D^{22} = -22.3$ (*c* 0.50, CH_2Cl_2)
 Source of chirality: asymmetric synthesis
 Absolute configuration: (*S*)

Zhuo Chai, Xin-Yuan Liu, Jun-Kang Zhang and Gang Zhao*

Tetrahedron: Asymmetry 18 (2007) 724



$C_{15}H_{13}ClO$

(1S)-(E)-1-(4-Chlorophenyl)-3-phenylprop-2-en-1-ol

Ee = 93%

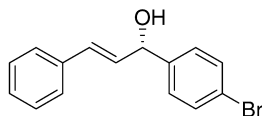
$[\alpha]_D^{22} = -16.8$ (c 0.65, CH_2Cl_2)

Source of chirality: asymmetric synthesis

Absolute configuration: (S)

Zhuo Chai, Xin-Yuan Liu, Jun-Kang Zhang and Gang Zhao*

Tetrahedron: Asymmetry 18 (2007) 724



$C_{15}H_{13}BrO$

(1S)-(E)-1-(4-Bromophenyl)-3-phenylprop-2-en-1-ol

Ee = 84%

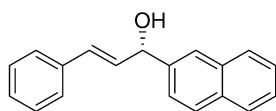
$[\alpha]_D^{25} = -14.9$ (c 0.47, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (S)

Zhuo Chai, Xin-Yuan Liu, Jun-Kang Zhang and Gang Zhao*

Tetrahedron: Asymmetry 18 (2007) 724



$C_{19}H_{16}O$

(1S)-(E)-1-(Naphthalen-2-yl)-3-phenylprop-2-en-1-ol

Ee = 91%

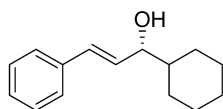
$[\alpha]_D^{25} = -25.2$ (c 0.33, CH_2Cl_2)

Source of chirality: asymmetric synthesis

Absolute configuration: (S)

Zhuo Chai, Xin-Yuan Liu, Jun-Kang Zhang and Gang Zhao*

Tetrahedron: Asymmetry 18 (2007) 724



$C_{15}H_{20}O$

(1S)-(E)-1-Cyclohexyl-3-phenylprop-2-en-1-ol

Ee = 82%

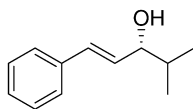
$[\alpha]_D^{24} = -5.7$ (c 0.47, CH_2Cl_2)

Source of chirality: asymmetric synthesis

Absolute configuration: (R)

Zhuo Chai, Xin-Yuan Liu, Jun-Kang Zhang and Gang Zhao*

Tetrahedron: Asymmetry 18 (2007) 724



C₁₂H₁₆O

(3*R*)-(E)-4-Methyl-1-phenylpent-1-en-3-ol

Ee = 76%

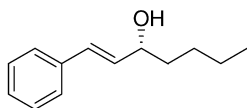
$[\alpha]_D^{22} = -8.2$ (*c* 0.75, EtOH)

Source of chirality: asymmetric synthesis

Absolute configuration: (*R*)

Zhuo Chai, Xin-Yuan Liu, Jun-Kang Zhang and Gang Zhao*

Tetrahedron: Asymmetry 18 (2007) 724



C₁₃H₁₈O

(3*R*)-(E)-1-Phenylhept-1-en-3-ol

Ee = 66%

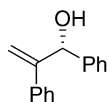
$[\alpha]_D^{25} = -2.7$ (*c* 0.47, benzene)

Source of chirality: asymmetric synthesis

Absolute configuration: (*R*)

Zhuo Chai, Xin-Yuan Liu, Jun-Kang Zhang and Gang Zhao*

Tetrahedron: Asymmetry 18 (2007) 724



C₁₅H₁₄O

(*R*)-1,2-Diphenylprop-2-en-1-ol

Ee = 94%

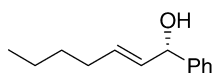
$[\alpha]_D^{22} = -47.6$ (*c* 0.27, CHCl₃)

Source of chirality: asymmetric synthesis

Absolute configuration: (*R*)

Zhuo Chai, Xin-Yuan Liu, Jun-Kang Zhang and Gang Zhao*

Tetrahedron: Asymmetry 18 (2007) 724



C₁₃H₁₈O

(1*S*)-(E)-1-Phenylhept-2-en-1-ol

Ee = 94%

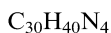
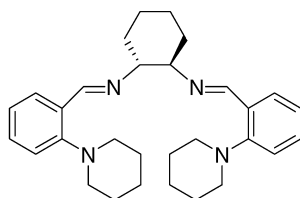
$[\alpha]_D^{22} = +34.2$ (*c* 0.58, CHCl₃)

Source of chirality: asymmetric synthesis

Absolute configuration: (*S*)

Wei-Yi Shen, Hui Zhang, Hua-Lin Zhang and Jing-Xing Gao*

Tetrahedron: Asymmetry 18 (2007) 729



(1*R*,2*R*)-*N*¹,*N*²-Bis(2-(piperidin-1-yl)benzylidene)cyclohexane-1,2-diamine

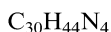
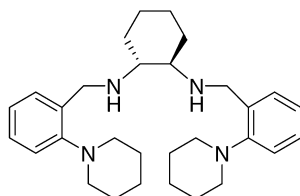
$[\alpha]_D^{20} = +85.5$ (*c* 1.0, $CHCl_3$)

Source of chirality: asymmetric synthesis

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

Wei-Yi Shen, Hui Zhang, Hua-Lin Zhang and Jing-Xing Gao*

Tetrahedron: Asymmetry 18 (2007) 729



(1*R*,2*R*)-*N*¹,*N*²-Bis(2-(piperidin-1-yl)benzyl)cyclohexane-1,2-diamine

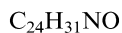
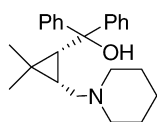
$[\alpha]_D^{20} = -55.4$ (*c* 1.0, $CHCl_3$)

Source of chirality: asymmetric synthesis

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

Jiangchun Zhong, Hongchao Guo, Mingan Wang, Mingming Yin and Min Wang*

Tetrahedron: Asymmetry 18 (2007) 734



((1*R*,3*S*)-2,2-Dimethyl-3-(pyrrolidin-1-ylmethyl)cyclopropyl)diphenylmethanol

Ee = 99%

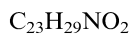
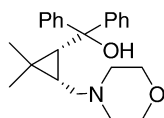
$[\alpha]_D^{18} = +167.6$ (*c* 0.82, $CHCl_3$)

Source of chirality: methyl (+)-*cis*-chrysanthemate

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

Jiangchun Zhong, Hongchao Guo, Mingan Wang, Mingming Yin and Min Wang*

Tetrahedron: Asymmetry 18 (2007) 734



((1*R*,3*S*)-2,2-Dimethyl-3-(morpholinomethyl)cyclopropyl)diphenylmethanol

Ee = 99%

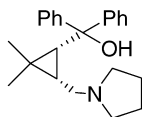
$[\alpha]_D^{18} = +158.5$ (*c* 0.93, $CHCl_3$)

Source of chirality: methyl (+)-*cis*-chrysanthemate

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

Jiangchun Zhong, Hongchao Guo, Mingan Wang, Mingming Yin and Min Wang*

Tetrahedron: Asymmetry 18 (2007) 734



$C_{23}H_{29}NO$

((1*R*,3*S*)-2,2-Dimethyl-3-(pyrrolidin-1-ylmethyl)cyclopropyl)diphenylmethanol

Ee = 99%

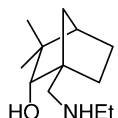
$[\alpha]_D^{18} = +14.1$ (*c* 1.51, $CHCl_3$)

Source of chirality: methyl (+)-*cis*-chrysanthemate

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

Antonio García Martínez,* Enrique Teso Vilar,* Amelia García Fraile, Santiago de la Moya Cerero, Paloma Martínez Ruiz and Cristina Díaz Morillo

Tetrahedron: Asymmetry 18 (2007) 742



$C_{12}H_{23}NO$

1-[(Ethylamino)methyl]-3,3-dimethylnorbornan-2-ol

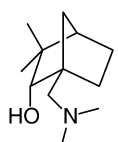
$[\alpha]_D^{20} = -4.5$ (*c* 0.62, MeOH)

Source of chirality: natural (1*R*)-(+)-camphor

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

Antonio García Martínez,* Enrique Teso Vilar,* Amelia García Fraile, Santiago de la Moya Cerero, Paloma Martínez Ruiz and Cristina Díaz Morillo

Tetrahedron: Asymmetry 18 (2007) 742



$C_{12}H_{23}NO$

1-[(Dimethylamino)methyl]-3,3-dimethylnorbornan-2-ol

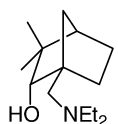
$[\alpha]_D^{20} = -9.3$ (*c* 0.50, MeOH)

Source of chirality: natural (1*R*)-(+)-camphor

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

Antonio García Martínez,* Enrique Teso Vilar,* Amelia García Fraile, Santiago de la Moya Cerero, Paloma Martínez Ruiz and Cristina Díaz Morillo

Tetrahedron: Asymmetry 18 (2007) 742



$C_{14}H_{27}NO$

1-[(Diethylamino)methyl]-3,3-dimethylnorbornan-2-ol

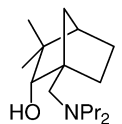
$[\alpha]_D^{20}$ (hydrochloride) = -14.5 (*c* 1.17, MeOH)

Source of chirality: natural (1*R*)-(+)-camphor

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

Antonio García Martínez,* Enrique Teso Vilar,* Amelia García Fraile,
Santiago de la Moya Cerero, Paloma Martínez Ruiz
and Cristina Díaz Morillo

Tetrahedron: Asymmetry 18 (2007) 742



$C_{16}H_{31}NO$

1-[(Dipropylamino)methyl]-3,3-dimethylnorbornan-2-ol

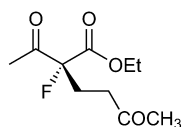
$[\alpha]_D^{20}$ (hydrochloride) = -2.7 (c 0.70, MeOH)

Source of chirality: natural (1*R*)-(+)-camphor

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

Sandrine Delarue-Cochin,* Bouchaib Bahlaouan, Frédéric Hendra,
Michèle Ourévitch, Delphine Joseph, Georges Morgant
and Christian Cavé

Tetrahedron: Asymmetry 18 (2007) 759



$C_{10}H_{15}FO_4$

Ethyl (*R*)-2-acetyl-2-fluoro-5-oxo-hexanoate

Ee = 60%

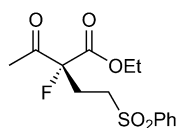
$[\alpha]_D^{20}$ = -23 (c 1.0, CH_2Cl_2)

Source of chirality: asymmetric synthesis

Absolute configuration: (*R*)

Sandrine Delarue-Cochin,* Bouchaib Bahlaouan, Frédéric Hendra,
Michèle Ourévitch, Delphine Joseph, Georges Morgant
and Christian Cavé

Tetrahedron: Asymmetry 18 (2007) 759



$C_{14}H_{17}FO_5S$

Ethyl (*R*)-2-acetyl-4-benzenesulfonyl-2-fluoro-butanoate

Ee = 77%

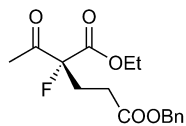
$[\alpha]_D^{20}$ = -33 (c 1.1, CH_2Cl_2)

Source of chirality: asymmetric synthesis

Absolute configuration: (*R*)

Sandrine Delarue-Cochin,* Bouchaib Bahlaouan, Frédéric Hendra,
Michèle Ourévitch, Delphine Joseph, Georges Morgant
and Christian Cavé

Tetrahedron: Asymmetry 18 (2007) 759



$C_{16}H_{19}FO_5$

Ethyl (*R*)-2-acetyl-4-benzyloxycarbonyl-2-fluoro-butanoate

Ee = 75%

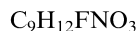
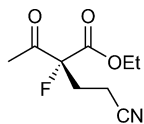
$[\alpha]_D^{20}$ = -30 (c 1.3, CH_2Cl_2)

Source of chirality: asymmetric synthesis

Absolute configuration: (*R*)

Sandrine Delarue-Cochin,* Bouchaib Bahlaouan, Frédéric Hendra, Michèle Ourévitch, Delphine Joseph, Georges Morgant and Christian Cavé

Tetrahedron: Asymmetry 18 (2007) 759



Ethyl (*R*)-2-acetyl-4-cyano-2-fluoro-butanoate

Ee = 74%

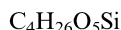
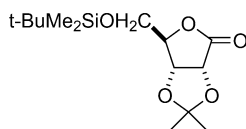
$[\alpha]_D^{20} = -60$ (*c* 1.1, CH_2Cl_2)

Source of chirality: asymmetric synthesis

Absolute configuration: (*R*)

Nigel A. Jones, Sarah F. Jenkinson, Raquel Soengas, Mette Fanefjord, Mark R. Wormald, Raymond A. Dwek, Gullapalli P. Kiran, Rao Devendar, Goro Takata, Kenji Morimoto, Ken Izumori and George W. J. Fleet*

Tetrahedron: Asymmetry 18 (2007) 774



5-*O*-*tert*-Butyldimethylsilyl-2,3-*O*-isopropylidene-D-ribofuranose-1,4-lactone

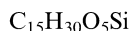
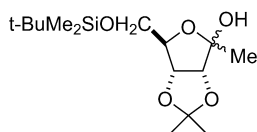
Ee = 100%

$[\alpha]_D^{23} = -49.0$ (*c* 1.2, $CHCl_3$)

Source of chirality: D-ribose as starting material

Nigel A. Jones, Sarah F. Jenkinson, Raquel Soengas, Mette Fanefjord, Mark R. Wormald, Raymond A. Dwek, Gullapalli P. Kiran, Rao Devendar, Goro Takata, Kenji Morimoto, Ken Izumori and George W. J. Fleet*

Tetrahedron: Asymmetry 18 (2007) 774



6-*O*-*tert*-Butyldimethylsilyl-1-deoxy-3,4-*O*-isopropylidene-D-psicofuranose

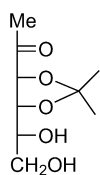
Ee = 100%

$[\alpha]_D^{21} = -13.1$ (*c* 1.0, $CHCl_3$)

Source of chirality: D-ribose as starting material

Nigel A. Jones, Sarah F. Jenkinson, Raquel Soengas, Mette Fanefjord, Mark R. Wormald, Raymond A. Dwek, Gullapalli P. Kiran, Rao Devendar, Goro Takata, Kenji Morimoto, Ken Izumori and George W. J. Fleet*

Tetrahedron: Asymmetry 18 (2007) 774



1-Deoxy-3,4-*O*-isopropylidene-D-psicose

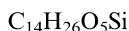
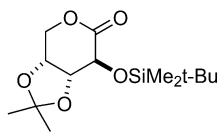
Ee = 100%

$[\alpha]_D^{21} = -15.0$ (*c* 1.1, $CHCl_3$)

Source of chirality: D-ribose as starting material

Nigel A. Jones, Sarah F. Jenkinson, Raquel Soengas, Mette Fanefjord, Mark R. Wormald, Raymond A. Dwek, Gullapalli P. Kiran, Rao Devendar, Goro Takata, Kenji Morimoto, Ken Izumori and George W. J. Fleet*

Tetrahedron: Asymmetry 18 (2007) 774



2-*O*-*tert*-Butyldimethylsilyl-3,4-*O*-isopropylidene-D-arabinono-1,5-lactone

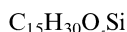
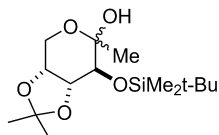
Ee = 100%

$[\alpha]_D^{21} = -87.2$ (*c* 1.0, $CHCl_3$)

Source of chirality: D-arabinose as starting material

Nigel A. Jones, Sarah F. Jenkinson, Raquel Soengas, Mette Fanefjord, Mark R. Wormald, Raymond A. Dwek, Gullapalli P. Kiran, Rao Devendar, Goro Takata, Kenji Morimoto, Ken Izumori and George W. J. Fleet*

Tetrahedron: Asymmetry 18 (2007) 774



3-*O*-*tert*-Butyldimethylsilyl-1-deoxy-4,5-*O*-isopropylidene-D-fructose

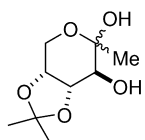
Ee = 100%

$[\alpha]_D^{21} = -61.3$ (*c* 1.0, $CHCl_3$)

Source of chirality: D-arabinose as starting material

Nigel A. Jones, Sarah F. Jenkinson, Raquel Soengas, Mette Fanefjord, Mark R. Wormald, Raymond A. Dwek, Gullapalli P. Kiran, Rao Devendar, Goro Takata, Kenji Morimoto, Ken Izumori and George W. J. Fleet*

Tetrahedron: Asymmetry 18 (2007) 774



1-Deoxy-4,5-*O*-isopropylidene-D-fructose

Ee = 100%

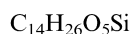
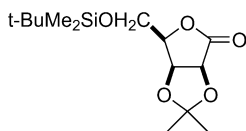
$[\alpha]_D^{21} = -102.2$ (*c* 1.0, $CHCl_3$)

$[\alpha]_D^{23} = -137.9$ (*c* 1.0, MeOH)

Source of chirality: D-arabinose as starting material

Nigel A. Jones, Sarah F. Jenkinson, Raquel Soengas, Mette Fanefjord, Mark R. Wormald, Raymond A. Dwek, Gullapalli P. Kiran, Rao Devendar, Goro Takata, Kenji Morimoto, Ken Izumori and George W. J. Fleet*

Tetrahedron: Asymmetry 18 (2007) 774



5-*O*-*tert*-Butyldimethylsilyl-2,3-*O*-isopropylidene-D-lyxono-1,4-lactone

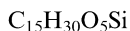
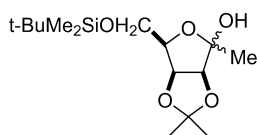
Ee = 100%

$[\alpha]_D^{21} = +58.0$ (*c* 1.0, $CHCl_3$)

Source of chirality: D-galactose as starting material

Nigel A. Jones, Sarah F. Jenkinson, Raquel Soengas, Mette Fanefjord,
Mark R. Wormald, Raymond A. Dwek, Gullapalli P. Kiran,
Rao Devendar, Goro Takata, Kenji Morimoto,
Ken Izumori and George W. J. Fleet*

Tetrahedron: Asymmetry 18 (2007) 774



6-*O*-*tert*-Butyldimethylsilyl-1-deoxy-3,4-*O*-isopropylidene-D-tagatofuranose

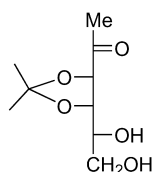
Ee = 100%

$[\alpha]_D^{20} = +5.0$ (c 1.0, $CHCl_3$)

Source of chirality: D-galactose as starting material

Nigel A. Jones, Sarah F. Jenkinson, Raquel Soengas, Mette Fanefjord,
Mark R. Wormald, Raymond A. Dwek, Gullapalli P. Kiran,
Rao Devendar, Goro Takata, Kenji Morimoto,
Ken Izumori and George W. J. Fleet*

Tetrahedron: Asymmetry 18 (2007) 774



1-Deoxy-3,4-*O*-isopropylidene-D-tagatose

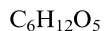
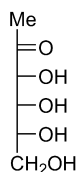
Ee = 100%

$[\alpha]_D^{21} = +21.0$ (c 1.0, $CHCl_3$)

Source of chirality: D-galactose as starting material

Nigel A. Jones, Sarah F. Jenkinson, Raquel Soengas, Mette Fanefjord,
Mark R. Wormald, Raymond A. Dwek, Gullapalli P. Kiran,
Rao Devendar, Goro Takata, Kenji Morimoto,
Ken Izumori and George W. J. Fleet*

Tetrahedron: Asymmetry 18 (2007) 774



1-Deoxy-D-psicose

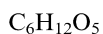
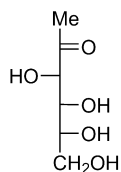
Ee = 100%

$[\alpha]_D^{21} = +1.0$ (c 1.0, H_2O)

Source of chirality: D-ribose as starting material

Nigel A. Jones, Sarah F. Jenkinson, Raquel Soengas, Mette Fanefjord,
Mark R. Wormald, Raymond A. Dwek, Gullapalli P. Kiran,
Rao Devendar, Goro Takata, Kenji Morimoto,
Ken Izumori and George W. J. Fleet*

Tetrahedron: Asymmetry 18 (2007) 774



1-Deoxy-D-fructose

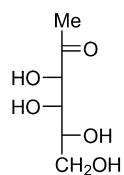
Ee = 100%

$[\alpha]_D^{21} = -80.5$ (c 1.0, H_2O)

Source of chirality: D-arabinose as starting material

Nigel A. Jones, Sarah F. Jenkinson, Raquel Soengas, Mette Fanefjord, Mark R. Wormald, Raymond A. Dwek, Gullapalli P. Kiran, Rao Devendar, Goro Takata, Kenji Morimoto, Ken Izumori and George W. J. Fleet*

Tetrahedron: Asymmetry 18 (2007) 774



1-Deoxy-D-tagatose

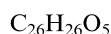
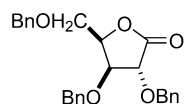
Ee = 100%

$[\alpha]_D^{22} = -13.0$ (c 2.0, H₂O)

Source of chirality: D-galactose as starting material

Nigel A. Jones, Sarah F. Jenkinson, Raquel Soengas, Mette Fanefjord, Mark R. Wormald, Raymond A. Dwek, Gullapalli P. Kiran, Rao Devendar, Goro Takata, Kenji Morimoto, Ken Izumori and George W. J. Fleet*

Tetrahedron: Asymmetry 18 (2007) 774



2,3,5-Tri-*O*-benzyl-D-xylo-1,4-lactone

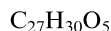
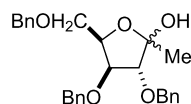
Ee = 100%

$[\alpha]_D^{20} = 89.0$ (c 1.0, CHCl₃)

Source of chirality: D-xylose as starting material

Nigel A. Jones, Sarah F. Jenkinson, Raquel Soengas, Mette Fanefjord, Mark R. Wormald, Raymond A. Dwek, Gullapalli P. Kiran, Rao Devendar, Goro Takata, Kenji Morimoto, Ken Izumori and George W. J. Fleet*

Tetrahedron: Asymmetry 18 (2007) 774



3,4,6-Tri-*O*-benzyl-1-deoxy-D-sorbofuranose

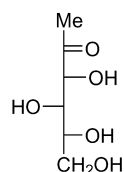
Ee = 100%

$[\alpha]_D^{20} = -11.0$ (c 1.0, CHCl₃)

Source of chirality: D-xylose as starting material

Nigel A. Jones, Sarah F. Jenkinson, Raquel Soengas, Mette Fanefjord, Mark R. Wormald, Raymond A. Dwek, Gullapalli P. Kiran, Rao Devendar, Goro Takata, Kenji Morimoto, Ken Izumori and George W. J. Fleet*

Tetrahedron: Asymmetry 18 (2007) 774



1-Deoxy-D-sorbose

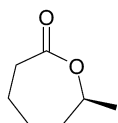
Ee = 100%

$[\alpha]_D^{20} = +49.0$ (c 1.0, H₂O)

Source of chirality: D-xylose as starting material

Bart A. C. van As, Dah-Kee Chan, Patrick J. J. Kivit,
Anja R. A. Palmans* and E. W. Meijer*

Tetrahedron: Asymmetry 18 (2007) 787



$C_7H_{14}O_2$

(S)-6-Methyl-ε-caprolactone

Ee = 99.6%

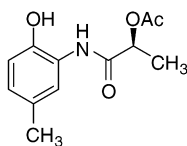
$[\alpha]_D = -25.9$ (c 13, $CHCl_3$)

Source of chirality: enzyme-mediated kinetic resolution

Absolute configuration: (S)

Kani Zilbeyaz, Ertan Sahin and Hamdullah Kilic*

Tetrahedron: Asymmetry 18 (2007) 791



$C_{12}H_{15}NO_4$

(S)-1-(2-Hydroxy-5-methylphenylamino)-1-oxopropan-2-yl acetate

Ee >99%

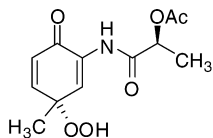
$[\alpha]_D = -50$ (c 0.05, $CHCl_3$)

Source of chirality: L-lactic acid

Absolute configuration: (S)

Kani Zilbeyaz, Ertan Sahin and Hamdullah Kilic*

Tetrahedron: Asymmetry 18 (2007) 791



$C_{12}H_{15}NO_6$

(S)-1-((R)-3-Hydroperoxy-3-methyl-6-oxocyclohexa-1,4-dienylamino)-1-oxopropan-2-yl acetate

Ee >99%

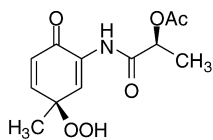
$[\alpha]_D = -12$ (c 0.05, $CHCl_3$)

Source of chirality: L-lactic acid

Absolute configuration: (3R,12S)

Kani Zilbeyaz, Ertan Sahin and Hamdullah Kilic*

Tetrahedron: Asymmetry 18 (2007) 791



$C_{12}H_{15}NO_6$

(S)-1-((S)-3-Hydroperoxy-3-methyl-6-oxocyclohexa-1,4-dienylamino)-1-oxopropan-2-yl acetate

Ee >99%

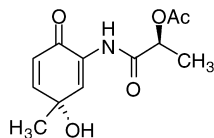
$[\alpha]_D = -38$ (c 0.05, $CHCl_3$)

Source of chirality: L-lactic acid

Absolute configuration: (3S,12S)

Kani Zilbeyaz, Ertan Sahin and Hamdullah Kilic*

Tetrahedron: Asymmetry 18 (2007) 791



(S)-1-((R)-3-Hydroxy-3-methyl-6-oxocyclohexa-1,4-dienylamino)-1-oxopropan-2-yl acetate

Ee > 99%

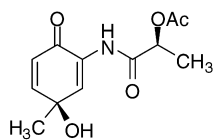
$[\alpha]_D = -29$ (c 0.05, $CHCl_3$)

Source of chirality: L-lactic acid

Absolute configuration: (3R,12S)

Kani Zilbeyaz, Ertan Sahin and Hamdullah Kilic*

Tetrahedron: Asymmetry 18 (2007) 791



(S)-1-((S)-3-Hydroxy-3-methyl-6-oxocyclohexa-1,4-dienylamino)-1-oxopropan-2-yl acetate

Ee > 99%

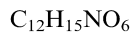
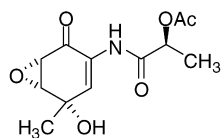
$[\alpha]_D = -40$ (c 0.05, $CHCl_3$)

Source of chirality: L-lactic acid

Absolute configuration: (3S,12S)

Kani Zilbeyaz, Ertan Sahin and Hamdullah Kilic*

Tetrahedron: Asymmetry 18 (2007) 791



(S)-1-((1S,5S,6R)-5-Hydroxy-5-methyl-2-oxo-7-oxabicyclo[4.1.0]hept-3-en-3-ylamino)-1-oxopropan-2-yl acetate

Ee > 99%

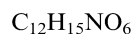
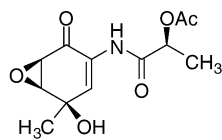
$[\alpha]_D = -122$ (c 0.05, $CHCl_3$)

Source of chirality: L-lactic acid

Absolute configuration: (1S,5S,6R,15S)

Kani Zilbeyaz, Ertan Sahin and Hamdullah Kilic*

Tetrahedron: Asymmetry 18 (2007) 791



(S)-1-((1R,5R,6S)-5-Hydroxy-5-methyl-2-oxo-7-oxabicyclo[4.1.0]hept-3-en-3-ylamino)-1-oxopropan-2-yl acetate

Ee > 99%

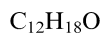
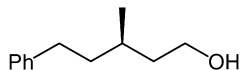
$[\alpha]_D = +115$ (c 0.05, $CHCl_3$)

Source of chirality: L-lactic acid

Absolute configuration: (1R,5R,6S,15S)

Ugo Matteoli,* Alessandra Ciappa, Sara Bovo, Matheo Bertoldini and Alberto Scrivanti

Tetrahedron: Asymmetry 18 (2007) 797



(*R*)-3-Methyl-5-phenylpentan-1-ol

Ee >97% ee

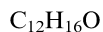
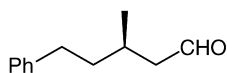
$[\alpha]_D^{25} = +14.5$ (*c* 5, dichloromethane)

Source of chirality: asymmetric hydrogenation

Absolute configuration: (*R*)

Ugo Matteoli,* Alessandra Ciappa, Sara Bovo, Matheo Bertoldini and Alberto Scrivanti

Tetrahedron: Asymmetry 18 (2007) 797



(*R*)-3-Methyl-5-phenylpentanal

Ee >97% ee

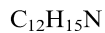
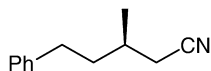
$[\alpha]_D^{25} = +22.9$ (*c* 1, dichloromethane)

Source of chirality: asymmetric hydrogenation

Absolute configuration: (*R*)

Ugo Matteoli,* Alessandra Ciappa, Sara Bovo, Matheo Bertoldini and Alberto Scrivanti

Tetrahedron: Asymmetry 18 (2007) 797



(*R*)-3-Methyl-5-phenylpentanenitrile

Ee >97% ee

$[\alpha]_D^{25} = -2.3$ (*c* 2.2, ethanol)

Source of chirality: asymmetric hydrogenation

Absolute configuration: (*R*)