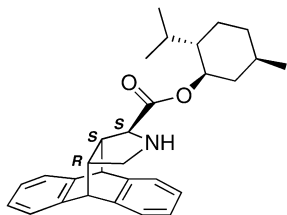


Stereochemistry abstracts

Aika Sasaoka, Md. Imam Uddin, Ai Shimomoto, Yoshiyasu Ichikawa,  
Motoo Shiro and Hiyoshizo Kotsuki\*

*Tetrahedron: Asymmetry 17 (2006) 2963*



$C_{29}H_{35}NO_2$

(1*S*,3*aR*,9*aS*)-4,9[1',2']Benzeno-1,3,3*a*,4,9,9*a*-hexahydro-1*H*-benz[*f*]isoindole-1-carboxylic acid (–)-menthyl ester

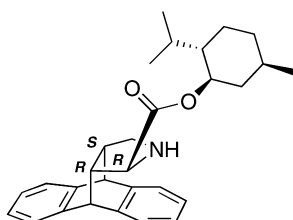
$[\alpha]_D^{22} = +20.9$  (*c* 1.62, MeOH)

Source of chirality: diastereomeric ester resolution

Absolute configuration: (1*S*,3*aR*,9*aS*)

Aika Sasaoka, Md. Imam Uddin, Ai Shimomoto, Yoshiyasu Ichikawa,  
Motoo Shiro and Hiyoshizo Kotsuki\*

*Tetrahedron: Asymmetry 17 (2006) 2963*



$C_{29}H_{35}NO_2$

(1*R*,3*aS*,9*aR*)-4,9[1',2']Benzeno-1,3,3*a*,4,9,9*a*-hexahydro-1*H*-benz[*f*]isoindole-1-carboxylic acid (–)-menthyl ester

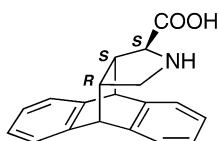
$[\alpha]_D^{22} = -93.1$  (*c* 1.41, MeOH)

Source of chirality: diastereomeric ester resolution

Absolute configuration: (1*R*,3*aS*,9*aR*)

Aika Sasaoka, Md. Imam Uddin, Ai Shimomoto, Yoshiyasu Ichikawa,  
Motoo Shiro and Hiyoshizo Kotsuki\*

*Tetrahedron: Asymmetry 17 (2006) 2963*



$C_{19}H_{17}NO_2$

(1*S*,3*aR*,9*aS*)-4,9[1',2']Benzeno-1,3,3*a*,4,9,9*a*-hexahydro-1*H*-benz[*f*]isoindole-1-carboxylic acid

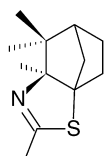
$[\alpha]_D^{22} = +57.6$  (*c* 0.62, MeOH)

Source of chirality: diastereomeric ester resolution

Absolute configuration: (1*S*,3*aR*,9*aS*)

Antonio García Martínez,\* Enrique Teso Vilar,\*  
Florencio Moreno-Jiménez and Ana M<sup>a</sup> Álvarez García

*Tetrahedron: Asymmetry 17 (2006) 2970*



$C_{12}H_{19}NS$

(1*R*,5*S*,7*R*)-3,5,6,6-Tetramethyl-2-thia-4-azatricyclo [5.2.1.0<sup>1,5</sup>]dec-3-ene

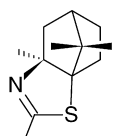
$[\alpha]_D^{20} = +116.6$  (*c* 0.84, CH<sub>2</sub>Cl<sub>2</sub>)

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

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

Antonio García Martínez,\* Enrique Teso Vilar,\*  
Florencio Moreno-Jiménez and Ana M<sup>a</sup> Álvarez García

*Tetrahedron: Asymmetry 17 (2006) 2970*



C<sub>12</sub>H<sub>19</sub>NS

(1*R*,5*S*,7*S*)-3-Ethyl-5,10,10-Tetramethyl-2-thia-4-azatricyclo [5.2.1.0<sup>1,5</sup>]dec-3-ene

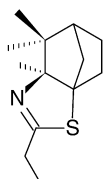
$[\alpha]_D^{20} = +113.6$  (*c* 0.72, CH<sub>2</sub>Cl<sub>2</sub>)

Source of chirality: natural (1*R*)-(-)-fenchone

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

Antonio García Martínez,\* Enrique Teso Vilar,\*  
Florencio Moreno-Jiménez and Ana M<sup>a</sup> Álvarez García

*Tetrahedron: Asymmetry 17 (2006) 2970*



C<sub>13</sub>H<sub>21</sub>NS

(1*R*,5*S*,7*R*)-3-Ethyl-5,6,6-trimethyl-2-thia-4-azatricyclo [5.2.1.0<sup>1,5</sup>]dec-3-ene

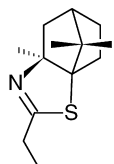
$[\alpha]_D^{20} = +86.8$  (*c* 0.58, CH<sub>2</sub>Cl<sub>2</sub>)

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

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

Antonio García Martínez,\* Enrique Teso Vilar,\*  
Florencio Moreno-Jiménez and Ana M<sup>a</sup> Álvarez García

*Tetrahedron: Asymmetry 17 (2006) 2970*



C<sub>13</sub>H<sub>21</sub>NS

(1*R*,5*S*,7*S*)-3-Ethyl-5,10,10-trimethyl-2-thia-4-azatricyclo [5.2.1.0<sup>1,5</sup>]dec-3-ene

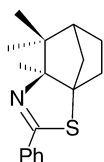
$[\alpha]_D^{20} = +121.6$  (*c* 0.82, CH<sub>2</sub>Cl<sub>2</sub>)

Source of chirality: natural (1*R*)-(-)-fenchone

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

Antonio García Martínez,\* Enrique Teso Vilar,\*  
Florencio Moreno-Jiménez and Ana M<sup>a</sup> Álvarez García

*Tetrahedron: Asymmetry 17 (2006) 2970*



C<sub>17</sub>H<sub>21</sub>NS

(1*R*,5*S*,7*R*)-3-Phenyl-5,6,6-trimethyl-2-thia-4-azatricyclo [5.2.1.0<sup>1,5</sup>]dec-3-ene

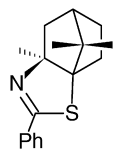
$[\alpha]_D^{20} = +35.3$  (*c* 0.73, CH<sub>2</sub>Cl<sub>2</sub>)

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

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

Antonio García Martínez,\* Enrique Teso Vilar,\*  
Florencio Moreno-Jiménez and Ana M<sup>a</sup> Álvarez García

*Tetrahedron: Asymmetry 17 (2006) 2970*



C<sub>17</sub>H<sub>21</sub>NS

(1*R*,5*S*,7*S*)-3-Phenyl-5,10,10-trimethyl-2-thia-4-azatricyclo [5.2.1.0<sup>1,5</sup>]dec-3-ene

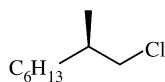
$[\alpha]_D^{20} = +118.8$  (*c* 1.91, CH<sub>2</sub>Cl<sub>2</sub>)

Source of chirality: natural (1*R*)-(-)-fenchone

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

Konstantin N. Prokhorevich and Oleg G. Kulinkovich\*

*Tetrahedron: Asymmetry 17 (2006) 2976*



C<sub>9</sub>H<sub>19</sub>Cl

(2*R*)-1-Chloro-2-methyloctane

Ee 95%

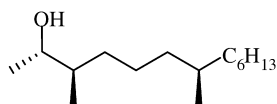
$[\alpha]_D^{20} = +3.3$  (*c* 34.8, hexane)

Source of chirality: baker's yeast

Absolute configuration: (2*R*)

Konstantin N. Prokhorevich and Oleg G. Kulinkovich\*

*Tetrahedron: Asymmetry 17 (2006) 2976*



C<sub>15</sub>H<sub>32</sub>O

(2*S*,3*R*,7*R*)-3,7-Dimethyltridecan-2-ol

Ee >99%; dr >99:1

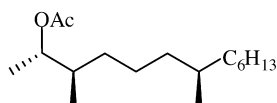
$[\alpha]_D^{20} = +16.5$  (*c* 4.8, hexane)

Source of chirality: diastereomeric salt formation

Absolute configuration: (2*S*,3*R*,7*R*)

Konstantin N. Prokhorevich and Oleg G. Kulinkovich\*

*Tetrahedron: Asymmetry 17 (2006) 2976*



C<sub>17</sub>H<sub>34</sub>O<sub>2</sub>

(2*S*,3*R*,7*R*)-3,7-Dimethyltridec-2-yl acetate

Ee >99%; dr >99:1

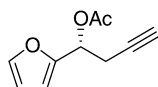
$[\alpha]_D^{20} = +8.3$  (*c* 2.7, hexane)

Source of chirality: diastereomeric salt formation

Absolute configuration: (2*S*,3*R*,7*R*)

Serdar Sezer, Devrim Özdemirhan, Ertan Şahin and Cihangir Tanyeli\*

*Tetrahedron: Asymmetry 17 (2006) 2981*



$C_{10}H_{10}O_3$

(*R*)-(+)-1-(Furan-2-yl)but-3-ynyl acetate

Ee = 90%

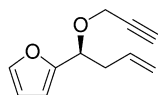
$[\alpha]_D^{29} = +54.6$  (*c* 4.0, MeOH)

Source of chirality: enzymatic resolution

Absolute configuration: (1*R*)

Serdar Sezer, Devrim Özdemirhan, Ertan Şahin and Cihangir Tanyeli\*

*Tetrahedron: Asymmetry 17 (2006) 2981*



$C_{11}H_{12}O_2$

(*S*)-(-)-2-(1-(prop-2-ynyloxy)but-3-enyl)furan

Ee = 99%

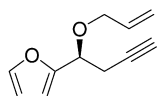
$[\alpha]_D^{20} = -67.5$  (*c* 2.7, CH<sub>2</sub>Cl<sub>2</sub>)

Source of chirality: enzymatic resolution

Absolute configuration: (1*S*)

Serdar Sezer, Devrim Özdemirhan, Ertan Şahin and Cihangir Tanyeli\*

*Tetrahedron: Asymmetry 17 (2006) 2981*



$C_{11}H_{12}O_2$

(*S*)-(-)-2-(1-allyloxy)but-3-ynylfuran

Ee = 93%

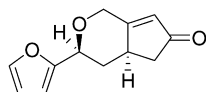
$[\alpha]_D^{20} = -8.5$  (*c* 0.5, MeOH)

Source of chirality: enzymatic resolution

Absolute configuration: (1*S*)

Serdar Sezer, Devrim Özdemirhan, Ertan Şahin and Cihangir Tanyeli\*

*Tetrahedron: Asymmetry 17 (2006) 2981*



$C_{12}H_{12}O_3$

(3*S*,4*aR*)-(+)-3-(Furan-2-yl)-3,4,4*a*,5-tetrahydrocyclopenta[*c*]pyran-6(1*H*)-one

Ee = 99%

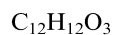
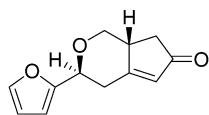
$[\alpha]_D^{20} = +35.5$  (*c* 1.7, CH<sub>2</sub>Cl<sub>2</sub>)

Source of chirality: enzymatic resolution

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

Serdar Sezer, Devrim Özdemirhan, Ertan Şahin and Cihangir Tanyeli\*

*Tetrahedron: Asymmetry 17 (2006) 2981*



(3*S*,7*aR*)-(+)-3-(Furan-2-yl)-3,4,7,7*a*-tetrahydrocyclopenta[*c*]pyran-6(1*H*)-one

Ee = 93%

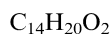
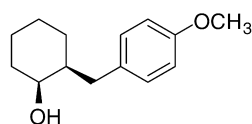
$[\alpha]_D^{20} = +99.1$  (*c* 3.6, MeOH)

Source of chirality: enzymatic resolution

Absolute configuration: (3*S*,7*aR*)

Epameinondas Xanthakis, Marie Zarevúcka, David Šaman, Martina Wimmerová, Fragiskos N. Kolis and Zdeněk Wimmer\*

*Tetrahedron: Asymmetry 17 (2006) 2987*



(1*S*,2*S*)-2-(4-Methoxybenzyl)cyclohexanol

Ee >99%

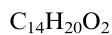
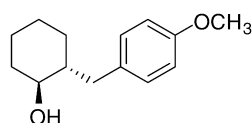
$[\alpha]_D^{20} = +34.4$  (*c* 0.116, CHCl<sub>3</sub>)

Source of chirality: enzymic resolution by lipase-mediated hydrolysis

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

Epameinondas Xanthakis, Marie Zarevúcka, David Šaman, Martina Wimmerová, Fragiskos N. Kolis and Zdeněk Wimmer\*

*Tetrahedron: Asymmetry 17 (2006) 2987*



(1*S*,2*R*)-2-(4-Methoxybenzyl)cyclohexanol

Ee >99%

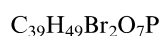
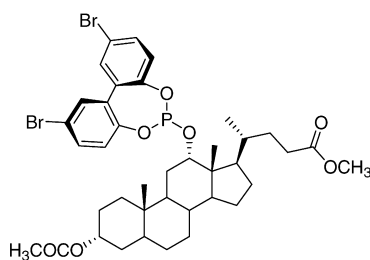
$[\alpha]_D^{20} = -21.3$  (*c* 0.083, CHCl<sub>3</sub>)

Source of chirality: enzymic resolution by lipase-mediated hydrolysis

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

Sarah Facchetti, Debora Losi and Anna Iuliano\*

*Tetrahedron: Asymmetry 17 (2006) 2993*



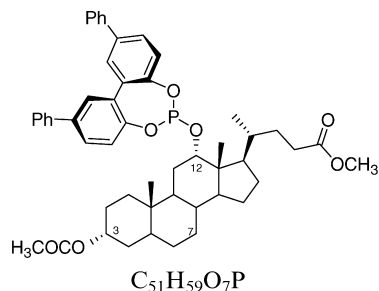
Methyl 3α-acetyloxy-12α-(5,5'-dibromobiphenyl-2,2'-diyl)phosphite-5β-cholan-24-oate

$[\alpha]_D^{22} = +24.3$  (*c* 1.00, CH<sub>2</sub>Cl<sub>2</sub>)

Source of chirality: natural source

Sarah Facchetti, Debora Losi and Anna Iuliano\*

*Tetrahedron: Asymmetry 17 (2006) 2993*

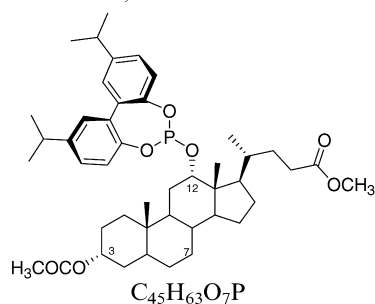


$[\alpha]_D^{24} = +28.6$  (*c* 0.95,  $CH_2Cl_2$ )  
Source of chirality: natural source

Methyl 3 $\alpha$ -acetyloxy-12 $\alpha$ -(5,5'-diphenylbiphenyl-2,2'-diyl)phosphite-5 $\beta$ -cholan-24-oate

Sarah Facchetti, Debora Losi and Anna Iuliano\*

*Tetrahedron: Asymmetry 17 (2006) 2993*

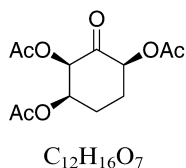


$[\alpha]_D^{25} = +52.0$  (*c* 1.03,  $CH_2Cl_2$ )  
Source of chirality: natural source

Methyl 3 $\alpha$ -acetyloxy-12 $\alpha$ -(5,5'-diisopropylbiphenyl-2,2'-diyl)phosphite-5 $\beta$ -cholan-24-oate

Funda Oğuzkaya, Ertan Şahin and Cihangir Tanyeli\*

*Tetrahedron: Asymmetry 17 (2006) 3004*

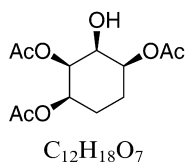


Ee = 97%  
 $[\alpha]_D^{20} = -7.25$  (*c* 0.02,  $CHCl_3$ )  
Source of chirality: enzymatic resolution  
Absolute configuration: (1*R*,2*R*,4*S*)

(1*R*,2*R*,4*S*)-(-)-3-Oxocyclohexane-1,2,4-triyl triacetate

Funda Oğuzkaya, Ertan Şahin and Cihangir Tanyeli\*

*Tetrahedron: Asymmetry 17 (2006) 3004*

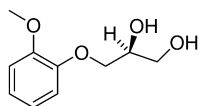


Ee = 97%  
 $[\alpha]_D^{20} = -1.3$  (*c* 0.02,  $CHCl_3$ )  
Source of chirality: enzymatic resolution  
Absolute configuration: (1*R*,2*S*,3*S*,4*S*)

(1*R*,2*S*,3*S*,4*S*)-(-)-3-Hydroxycyclohexane-1,2,4-triyl triacetate

Zemfira A. Bredikhina, Victorina G. Novikova, Dmitry V. Zakharychev  
and Alexander A. Bredikhin\*

*Tetrahedron: Asymmetry 17 (2006) 3015*



(*S*)-3-(2-Methoxyphenoxy)-propane-1,2-diol

Ee >99% [by thermal analysis]

$[\alpha]_D^{20} = +9.5$  (*c* 1.0, anhydrous MeOH)

$[\alpha]_D^{20} = +11.7$  (*c* 1.0, anhydrous EtOH)

$[\alpha]_D^{20} = +15.0$  (*c* 1.0, rectified EtOH)

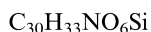
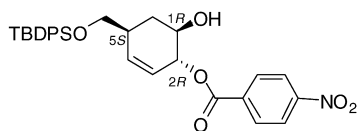
Initial source of chirality: (*S*)-3-chloropropane-1,2-diol

Subsequent source of chirality: spontaneous resolution

Absolute configuration: (*S*)

Seok-Ho Yu, Jeong-Ju Park and Sung-Kee Chung\*

*Tetrahedron: Asymmetry 17 (2006) 3030*



(1*R*,2*R*,5*S*)-5-(*tert*-Butyl-diphenylsilyloxymethyl)-2-*p*-nitrobenzoyloxy-cyclohex-3-ene-1-ol

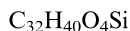
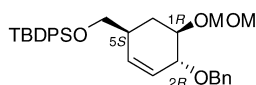
$[\alpha]_D^{27} = -131.5$  (*c* 1.0,  $CHCl_3$ )

Source of chirality: enzymatic resolution

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

Seok-Ho Yu, Jeong-Ju Park and Sung-Kee Chung\*

*Tetrahedron: Asymmetry 17 (2006) 3030*



(1*R*,2*R*,5*S*)-5-(*tert*-Butyl-diphenylsilyloxymethyl)-1-methoxymethoxy-2-benzyloxy-cyclohex-3-ene

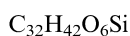
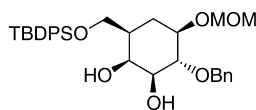
$[\alpha]_D^{26} = -92.2$  (*c* 1.0,  $CHCl_3$ )

Source of chirality: enzymatic resolution

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

Seok-Ho Yu, Jeong-Ju Park and Sung-Kee Chung\*

*Tetrahedron: Asymmetry 17 (2006) 3030*



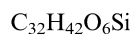
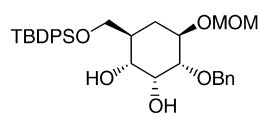
Methoxymethyl 2-*O*-benzyl-6-*O*-(*tert*-butyl-diphenyl)silyl-5a-carba- $\beta$ -D-galactopyranoside

$[\alpha]_D^{27} = +29.2$  (*c* 1.0,  $CHCl_3$ )

Source of chirality: enzymatic resolution

Seok-Ho Yu, Jeong-Ju Park and Sung-Kee Chung\*

*Tetrahedron: Asymmetry 17 (2006) 3030*



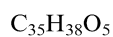
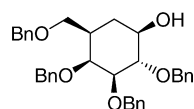
Methoxymethyl 2-*O*-benzyl-6-*O*-(*tert*-butyl-diphenyl)silyl-5a-carba- $\beta$ -D-allopyranoside

$$[\alpha]_D^{27} = +0.6 (c 1.0, CHCl_3)$$

Source of chirality: enzymatic resolution

Seok-Ho Yu, Jeong-Ju Park and Sung-Kee Chung\*

*Tetrahedron: Asymmetry 17 (2006) 3030*



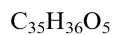
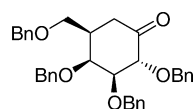
2,3,4,6-Tetra-*O*-benzyl-5a-carba- $\beta$ -D-galactopyranose

$$[\alpha]_D^{27} = -12.6 (c 1.0, CHCl_3)$$

Source of chirality: enzymatic resolution

Seok-Ho Yu, Jeong-Ju Park and Sung-Kee Chung\*

*Tetrahedron: Asymmetry 17 (2006) 3030*



(2*R*,3*S*,4*S*,5*R*)-2,3,4-Tri-benzyloxy-5-benzyloxymethyl-cyclohexanone

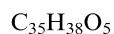
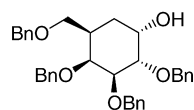
$$[\alpha]_D^{27} = +10.1 (c 1.0, CHCl_3)$$

Source of chirality: enzymatic resolution

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

Seok-Ho Yu, Jeong-Ju Park and Sung-Kee Chung\*

*Tetrahedron: Asymmetry 17 (2006) 3030*



2,3,4,6-Tetra-*O*-benzyl-5a-carba- $\alpha$ -D-galactopyranose

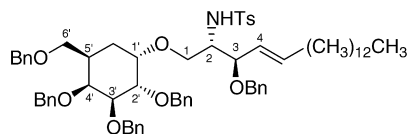
$$[\alpha]_D^{25} = +20.8 (c 1.0, CHCl_3)$$

Source of chirality: enzymatic resolution



Seok-Ho Yu, Jeong-Ju Park and Sung-Kee Chung\*

*Tetrahedron: Asymmetry 17 (2006) 3030*



$C_{67}H_{85}NO_8S$

(2*S*,3*R*,4*E*)-3-Benzyloxy-1-(2',3',4',6'-tetra-*O*-benzyl-5a-carba- $\alpha$ -D-galactopyranosyloxy)-2-(*p*-toluenesulfonylamino)-4-octadecene

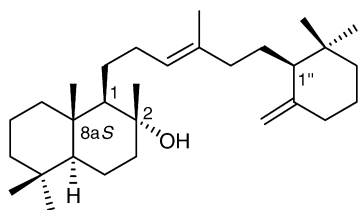
$[\alpha]_D^{25} = +13.1$  (*c* 1.0,  $CHCl_3$ )

Source of chirality: enzymatic resolution

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

Naoko Fujiwara, Masako Kinoshita and Hiroyuki Akita\*

*Tetrahedron: Asymmetry 17 (2006) 3037*



$C_{30}H_{52}O$

(+)-Ambrein

$E_e = >99\%$

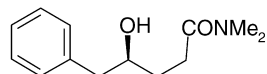
$[\alpha]_D^{24} = +18.9$  (*c* 0.47, EtOH)

Source of chirality: lipase

Absolute configuration: (1*R*,2*R*,4*aS*,8*aS*,1''*S*)

Christian Ketterer, Stefan Grimme, Edgar Weckert and Bernhard Wünsch\*

*Tetrahedron: Asymmetry 17 (2006) 3046*



$C_{13}H_{19}NO_2$

(*S*)-(-)-4-Hydroxy-*N,N*-dimethyl-5-phenylpentanamide

$E_e = 99\%$

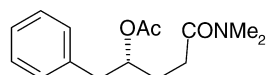
$[\alpha]_D = -9.7$

Source of chirality: lipase catalyzed kinetic resolution (*Pseudomonas fluorescens*)

Absolute configuration: (*S*)

Christian Ketterer, Stefan Grimme, Edgar Weckert and Bernhard Wünsch\*

*Tetrahedron: Asymmetry 17 (2006) 3046*



$C_{15}H_{21}NO_3$

(+)-[(*R*)-4-(*N,N*-Dimethylcarbamoyl)-1-phenylbutan-2-yl] acetate

$E_e = 98.4\%$

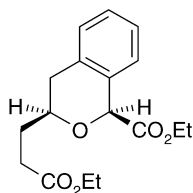
$[\alpha]_D = +3.4$

Source of chirality: lipase catalyzed kinetic resolution (*Pseudomonas fluorescens*)

Absolute configuration: (*R*)

Christian Ketterer, Stefan Grimme, Edgar Weckert  
and Bernhard Wünsch\*

*Tetrahedron: Asymmetry 17 (2006) 3046*



$C_{17}H_{22}O_5$

(+)-Ethyl (1*S*,3*S*)-3-(2-ethoxycarbonyl-ethyl)-3,4-dihydro-1*H*-2-benzopyran-1-carboxylate

Ee = 99%

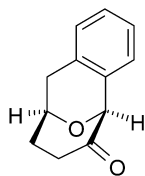
$[\alpha]_D = +9.1$

Source of chirality: lipase catalyzed kinetic resolution

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

Christian Ketterer, Stefan Grimme, Edgar Weckert  
and Bernhard Wünsch\*

*Tetrahedron: Asymmetry 17 (2006) 3046*



$C_{12}H_{12}O_2$

(5*S*,9*S*)-(-)-7,8,9,10-Tetrahydro-5,9-epoxybenzocycloocten-6(5*H*)-one

Ee = 99%

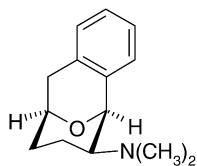
$[\alpha]_D = -221$

Source of chirality: lipase catalyzed kinetic resolution

Absolute configuration: (5*S*,9*S*)

Christian Ketterer, Stefan Grimme, Edgar Weckert  
and Bernhard Wünsch\*

*Tetrahedron: Asymmetry 17 (2006) 3046*



$C_{14}H_{19}NO$

(5*S*,6*S*,9*S*)-(-)-*N,N*-Dimethyl-5,6,7,8,9,10-hexahydro-5,9-epoxybenzocycloocten-6-amine

Ee = 99%

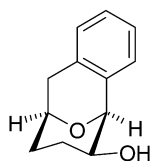
$[\alpha]_D = -40.4$  (HCl)

Source of chirality: lipase catalyzed kinetic resolution

Absolute configuration: (5*S*,6*S*,9*S*)

Christian Ketterer, Stefan Grimme, Edgar Weckert  
and Bernhard Wünsch\*

*Tetrahedron: Asymmetry 17 (2006) 3046*



$C_{12}H_{14}O_2$

(5*S*,6*S*,9*S*)-(-)-5,6,7,8,9,10-Hexahydro-5,9-epoxybenzocycloocten-6-ol

Ee = 99%

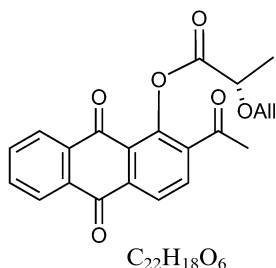
$[\alpha]_D = -71.8$

Source of chirality: lipase catalyzed kinetic resolution

Absolute configuration: (5*S*,6*S*,9*S*)

Karsten Krohn,\* Anne Vidal, Jürgen Vitz, Bernhard Westermann,  
Muhammad Abbas and Ivan Green

*Tetrahedron: Asymmetry 17 (2006) 3051*



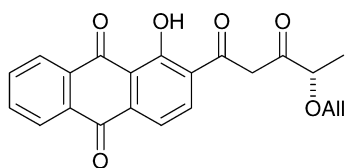
$$[\alpha]_{\text{D}}^{20} = -16 \text{ (} c \text{ 1.03, CHCl}_3\text{)}$$

$\text{C}_{22}\text{H}_{18}\text{O}_6$

(*S*)-2-Acetyl-9,10-dihydro-9,10-dioxoanthracen-1-yl 2-(allyloxy)propanoate

Karsten Krohn,\* Anne Vidal, Jürgen Vitz, Bernhard Westermann,  
Muhammad Abbas and Ivan Green

*Tetrahedron: Asymmetry 17 (2006) 3051*



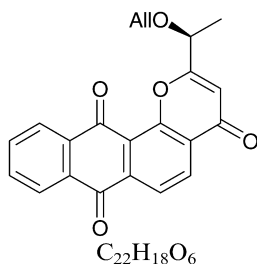
$$[\alpha]_{\text{D}}^{20} = -88 \text{ (} c \text{ 0.52, CHCl}_3\text{)}$$

$\text{C}_{22}\text{H}_{18}\text{O}_6$

2-(4-Allyloxy-3-oxo-pentanoyl)-1-hydroxy-anthraquinone

Karsten Krohn,\* Anne Vidal, Jürgen Vitz, Bernhard Westermann,  
Muhammad Abbas and Ivan Green

*Tetrahedron: Asymmetry 17 (2006) 3051*



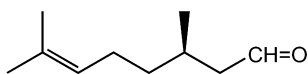
$$[\alpha]_{\text{D}}^{20} = -87 \text{ (} c \text{ 0.52, CHCl}_3\text{)}$$

$\text{C}_{22}\text{H}_{18}\text{O}_6$

2-(1-(Allyloxy)ethyl)-4*H*-naphtho[2,3-*h*]chromene-4,7,12-trione

Mélanie Hall, Bernhard Hauer, Rainer Stuermer, Wolfgang Kroutil  
and Kurt Faber\*

*Tetrahedron: Asymmetry 17 (2006) 3058*



$\text{C}_{10}\text{H}_{18}\text{O}$

(*R*)-3,7-Dimethyl-6-octenal (citronellal)

$E_e > 95\%$

$$[\alpha]_{\text{D}}^{20} = +10.1 \text{ (} c \text{ 1.0, EtOH)}$$

Source of chirality: asymmetric bioreduction

Absolute configuration: (*R*)