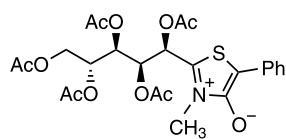


María J. Arévalo, Martín Avalos, Reyes Babiano, Pedro Cintas, Michael B. Hursthouse, José L. Jiménez,\* Mark E. Light and Juan C. Palacios

*Tetrahedron: Asymmetry 13 (2002) 223*



$C_{25}H_{29}NO_{11}S$

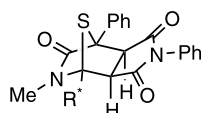
2-(1',2',3',4',5'-Penta-*O*-acetyl-D-glucopentitol-1-yl)-3-methyl-5-phenyl-1,3-thiazolium-4-olate

$[\alpha]_D = +128$  ( $c=0.5$ ,  $CHCl_3$ )

Source of chirality: chiral starting material

María J. Arévalo, Martín Avalos, Reyes Babiano, Pedro Cintas, Michael B. Hursthouse, José L. Jiménez,\* Mark E. Light and Juan C. Palacios

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$R^* = D\text{-gluco}-(CHOAc)_4-CH_2OAc$

$C_{35}H_{36}N_2O_{13}S$

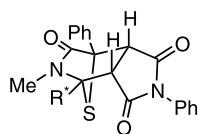
(3a,S,4S,7R,7aR)-4-(1',2',3',4',5'-Penta-*O*-acetyl-D-glucopentitol-1-yl)-4,7-epithio-2,3a,4,5,7,7a-hexahydro-5-methyl-2,7-diphenyl-1H-pyrrolo[3,4-*c*]pyridine-1,3,6-trione

$[\alpha]_D = -33.5$  ( $c=0.5$ ,  $CHCl_3$ )

Source of chirality: chiral starting material

María J. Arévalo, Martín Avalos, Reyes Babiano, Pedro Cintas, Michael B. Hursthouse, José L. Jiménez,\* Mark E. Light and Juan C. Palacios

*Tetrahedron: Asymmetry 13 (2002) 223*



$R^* = D\text{-gluco}-(CHOAc)_4-CH_2OAc$

$C_{35}H_{36}N_2O_{13}S$

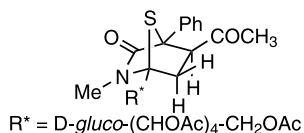
(3a,R,4R,7S,7a,S)-4-(1',2',3',4',5'-Penta-*O*-acetyl-D-glucopentitol-1-yl)-4,7-epithio-2,3a,4,5,7,7a-hexahydro-5-methyl-2,7-diphenyl-1H-pyrrolo[3,4-*c*]pyridine-1,3,6-trione

$[\alpha]_D = +3$  ( $c=0.5$ ,  $CHCl_3$ )

Source of chirality: chiral starting material

María J. Arévalo, Martín Avalos, Reyes Babiano, Pedro Cintas, Michael B. Hursthouse, José L. Jiménez,\* Mark E. Light and Juan C. Palacios

*Tetrahedron: Asymmetry 13 (2002) 223*



$R^* = D\text{-gluco}-(CHOAc)_4-CH_2OAc$

$C_{29}H_{35}NO_{12}S$

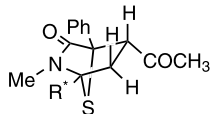
(3R,4R,6S)-4-Acetyl-6-(1',2',3',4',5'-penta-*O*-acetyl-D-glucopentitol-1-yl)-3,6-epithio-1,3,4,5,6-pentahydro-1-methyl-3-phenylpyridin-2-one

$[\alpha]_D = +4$  ( $c=0.5$ ,  $CHCl_3$ )

Source of chirality: chiral starting material

María J. Arévalo, Martín Avalos, Reyes Babiano, Pedro Cintas,  
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*Tetrahedron: Asymmetry 13 (2002) 223*



R\* = D-*gluco*-(CHOAc)<sub>4</sub>-CH<sub>2</sub>OAc

C<sub>29</sub>H<sub>35</sub>NO<sub>12</sub>S

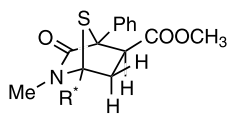
(3*S*,4*S*,6*R*)-4-Acetyl-6-(1',2',3',4',5'-penta-*O*-acetyl-D-glucopentitol-1-yl)-3,6-epithio-1,3,4,5,6-pentahydro-1-methyl-3-phenylpyridin-2-one

[α]<sub>D</sub> = +62.5 (c=0.5, CHCl<sub>3</sub>)

Source of chirality: chiral starting material

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R\* = D-*gluco*-(CHOAc)<sub>4</sub>-CH<sub>2</sub>OAc

C<sub>29</sub>H<sub>35</sub>NO<sub>13</sub>S

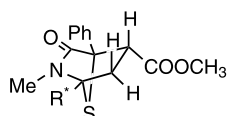
(3*R*,4*R*,6*S*)-6-(1',2',3',4',5'-Penta-*O*-acetyl-D-glucopentitol-1-yl)-3,6-epithio-1,3,4,5,6-pentahydro-4-methoxycarbonyl-1-methyl-3-phenylpyridin-2-one

[α]<sub>D</sub> = -0.5 (c=0.5, CHCl<sub>3</sub>)

Source of chirality: chiral starting material

María J. Arévalo, Martín Avalos, Reyes Babiano, Pedro Cintas,  
Michael B. Hursthouse, José L. Jiménez,\* Mark E. Light and  
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R\* = D-*gluco*-(CHOAc)<sub>4</sub>-CH<sub>2</sub>OAc

C<sub>29</sub>H<sub>35</sub>NO<sub>13</sub>S

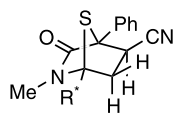
(3*S*,4*S*,6*R*)-6-(1',2',3',4',5'-Penta-*O*-acetyl-D-glucopentitol-1-yl)-3,6-epithio-1,3,4,5,6-pentahydro-4-methoxycarbonyl-1-methyl-3-phenylpyridin-2-one

[α]<sub>D</sub> = +62.5 (c=0.5, CHCl<sub>3</sub>)

Source of chirality: chiral starting material

María J. Arévalo, Martín Avalos, Reyes Babiano, Pedro Cintas,  
Michael B. Hursthouse, José L. Jiménez,\* Mark E. Light and  
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*Tetrahedron: Asymmetry 13 (2002) 223*



R\* = D-*gluco*-(CHOAc)<sub>4</sub>-CH<sub>2</sub>OAc

C<sub>29</sub>H<sub>32</sub>N<sub>2</sub>O<sub>11</sub>S

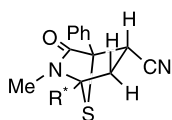
(3*R*,4*R*,6*S*)-6-(1',2',3',4',5'-Penta-*O*-acetyl-D-glucopentitol-1-yl)-4-cyano-3,6-epithio-1,3,4,5,6-pentahydro-1-methyl-3-phenylpyridin-2-one

[α]<sub>D</sub> = +6 (c=0.5, CHCl<sub>3</sub>)

Source of chirality: chiral starting material

María J. Arévalo, Martín Avalos, Reyes Babiano, Pedro Cintas,  
Michael B. Hursthouse, José L. Jiménez,\* Mark E. Light and  
Juan C. Palacios

*Tetrahedron: Asymmetry 13 (2002) 223*



R\* = D-*gluco*-(CHOAc)<sub>4</sub>-CH<sub>2</sub>OAc

C<sub>29</sub>H<sub>32</sub>N<sub>2</sub>O<sub>11</sub>S

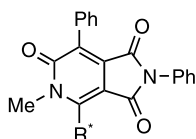
(3*S*,4*S*,6*R*)-6-(1',2',3',4',5'-Penta-*O*-acetyl-D-glucopentitol-1-yl)-4-cyano-3,6-epithio-1,3,4,5,6-pentahydro-1-methyl-3-phenylpyridin-2-one

[α]<sub>D</sub> = +67.5 (c=0.5, CHCl<sub>3</sub>)

Source of chirality: chiral starting material

María J. Arévalo, Martín Avalos, Reyes Babiano, Pedro Cintas,  
Michael B. Hursthouse, José L. Jiménez,\* Mark E. Light and  
Juan C. Palacios

*Tetrahedron: Asymmetry 13 (2002) 223*



R\* = D-*gluco*-(CHOAc)<sub>4</sub>-CH<sub>2</sub>OAc

C<sub>35</sub>H<sub>34</sub>N<sub>2</sub>O<sub>13</sub>

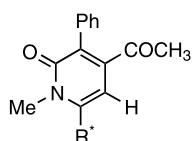
4-(1',2',3',4',5'-Penta-*O*-acetyl-D-glucopentitol-1-yl)-2,5-dihydro-5-methyl-2,7-diphenyl-1*H*-pyrrolo[3,4-*c*]pyridine-1,3,6-trione

[α]<sub>D</sub> = +47 (c=0.5, CHCl<sub>3</sub>)

Source of chirality: chiral starting material

María J. Arévalo, Martín Avalos, Reyes Babiano, Pedro Cintas,  
Michael B. Hursthouse, José L. Jiménez,\* Mark E. Light and  
Juan C. Palacios

*Tetrahedron: Asymmetry 13 (2002) 223*



R\* = D-*gluco*-(CHOAc)<sub>4</sub>-CH<sub>2</sub>OAc

C<sub>29</sub>H<sub>33</sub>NO<sub>12</sub>

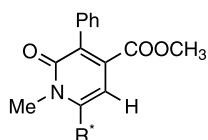
4-Acetyl-6-(1',2',3',4',5'-penta-*O*-acetyl-D-glucopentitol-1-yl)-1-methyl-3-phenylpyridin-2(1*H*)-one

[α]<sub>D</sub> = +118 (c=0.5, CHCl<sub>3</sub>)

Source of chirality: chiral starting material

María J. Arévalo, Martín Avalos, Reyes Babiano, Pedro Cintas,  
Michael B. Hursthouse, José L. Jiménez,\* Mark E. Light and  
Juan C. Palacios

*Tetrahedron: Asymmetry 13 (2002) 223*



R\* = D-*gluco*-(CHOAc)<sub>4</sub>-CH<sub>2</sub>OAc

C<sub>29</sub>H<sub>33</sub>NO<sub>13</sub>

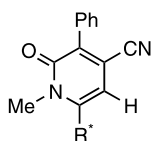
6-(1',2',3',4',5'-Penta-*O*-acetyl-D-glucopentitol-1-yl)-1-methyl-4-methoxycarbonyl-3-phenylpyridin-2(1*H*)-one

[α]<sub>D</sub> = +56.5 (c=0.5, CHCl<sub>3</sub>)

Source of chirality: chiral starting material

María J. Arévalo, Martín Avalos, Reyes Babiano, Pedro Cintas, Michael B. Hursthouse, José L. Jiménez,\* Mark E. Light and Juan C. Palacios

*Tetrahedron: Asymmetry 13 (2002) 223*



R\* = D-*gluco*-(CHOAc)<sub>4</sub>-CH<sub>2</sub>OAc

C<sub>28</sub>H<sub>30</sub>N<sub>2</sub>O<sub>11</sub>

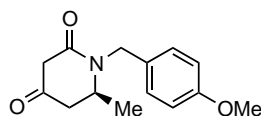
6-(1',2',3',4',5'-Penta-*O*-acetyl-D-glucopentitol-1-yl)-4-cyano-1-methyl-3-phenylpyridin-2(1*H*)-one

[α]<sub>D</sub><sup>20</sup> = +114 (c = 0.5, CHCl<sub>3</sub>)

Source of chirality: chiral starting material

Jean-Luc Vasse, Vincent Levacher,\* Jean Bourguignon and Georges Dupas

*Tetrahedron: Asymmetry 13 (2002) 227*



C<sub>14</sub>H<sub>17</sub>NO<sub>3</sub>

(*S*)-1-(*p*-Methoxybenzyl)-6-methylpiperidine-2,4-dione

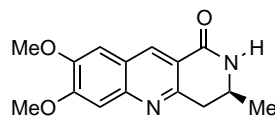
E.e. = 100%

[α]<sub>D</sub><sup>20</sup> = -133 (c 0.44, CDCl<sub>3</sub>)

Source of chirality: asymmetric synthesis

Jean-Luc Vasse, Vincent Levacher,\* Jean Bourguignon and Georges Dupas

*Tetrahedron: Asymmetry 13 (2002) 227*



C<sub>15</sub>H<sub>16</sub>N<sub>2</sub>O<sub>3</sub>

(*S*)-7,8-Dimethoxy-3-methyl-1-oxo-1,2,3,4-tetrahydrobenzo[*b*]-1,6-naphthyridin

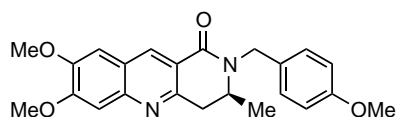
E.e. = 100%

[α]<sub>D</sub><sup>20</sup> = +66.4 (c 2.1, CDCl<sub>3</sub>)

Source of chirality: asymmetric synthesis

Jean-Luc Vasse, Vincent Levacher,\* Jean Bourguignon and Georges Dupas

*Tetrahedron: Asymmetry 13 (2002) 227*



C<sub>23</sub>H<sub>24</sub>N<sub>2</sub>O<sub>4</sub>

(*S*)-7,8-Dimethoxy-2-(*p*-methoxybenzyl)-3-methyl-1-oxo-1,2,3,4-tetrahydrobenzo[*b*]-1,6-naphthyridin

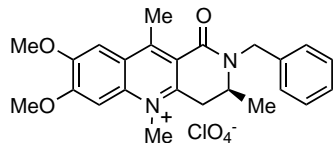
E.e. = 100%

[α]<sub>D</sub><sup>20</sup> = -178.6 (c 1.3, CDCl<sub>3</sub>)

Source of chirality: asymmetric synthesis

Jean-Luc Vasse, Vincent Levacher,\* Jean Bourguignon and Georges Dupas

*Tetrahedron: Asymmetry 13 (2002) 227*



$C_{24}H_{27}N_2O_7Cl$

(*S*)-2-Benzyl-7,8-dimethoxy-3,5,10-trimethyl-1-oxo-1,2,3,4-tetrahydrobenzo[*b*]-1,6-naphthyridinium perchlorate

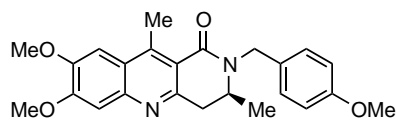
E.e. = 100%

$[\alpha]_D^{20} = -174.4$  (*c* 0.4,  $CDCl_3$ )

Source of chirality: asymmetric synthesis

Jean-Luc Vasse, Vincent Levacher,\* Jean Bourguignon and Georges Dupas

*Tetrahedron: Asymmetry 13 (2002) 227*



$C_{24}H_{27}N_2O_4$

(*S*)-7,8-Dimethoxy-2-(*p*-methoxybenzyl)-3,10-dimethyl-1-oxo-1,2,3,4-tetrahydrobenzo[*b*]-1,6-naphthyridin

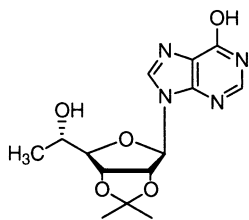
E.e. = 100%

$[\alpha]_D^{20} = -104.7$  (*c* 1.3,  $CDCl_3$ )

Source of chirality: asymmetric synthesis

Pierangela Ciuffreda, Angela Loseto and Enzo Santaniello\*

*Tetrahedron: Asymmetry 13 (2002) 239*



$C_{14}H_{18}N_4O_5$

(5'*S*)-5'-Methyl-2',3'-isopropylidene inosine

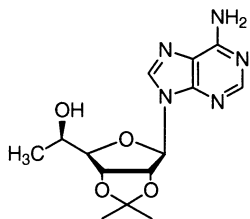
$[\alpha]_D^{25} = -35.4$  (*c* 1, MeOH)

Source of chirality: enzymatic deamination

Absolute configuration: 5'*S*

Pierangela Ciuffreda, Angela Loseto and Enzo Santaniello\*

*Tetrahedron: Asymmetry 13 (2002) 239*



$C_{14}H_{19}N_5O_4$

(5'*R*)-5'-Methyl-2',3'-isopropylidene adenosine

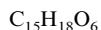
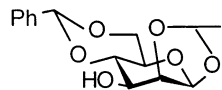
$[\alpha]_D^{25} = -25.6$  (*c* 1, MeOH)

Source of chirality: enzymatic deamination

Absolute configuration: 5'*R*

Jianjun Zhang and Fanzuo Kong\*

*Tetrahedron: Asymmetry 13 (2002) 243*



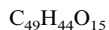
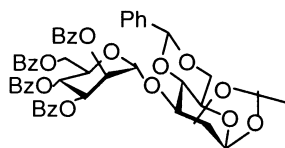
4,6-*O*-Benzylidene-1,2-*O*-ethylidene- $\beta$ -D-mannopyranose

$[\alpha]_D = -47.6$  ( $c = 1.3$ ,  $CHCl_3$ )

Absolute configuration: *R*

Jianjun Zhang and Fanzuo Kong\*

*Tetrahedron: Asymmetry 13 (2002) 243*



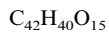
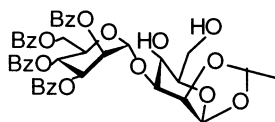
2,3,4,6-Tetra-*O*-benzoyl- $\alpha$ -D-mannopyranosyl-(1 $\rightarrow$ 3)-4,6-*O*-benzylidene-1,2-*O*-ethylidene- $\beta$ -D-mannopyranose

$[\alpha]_D = -39.7$  ( $c = 1.1$ ,  $CHCl_3$ )

Absolute configuration: *R*

Jianjun Zhang and Fanzuo Kong\*

*Tetrahedron: Asymmetry 13 (2002) 243*



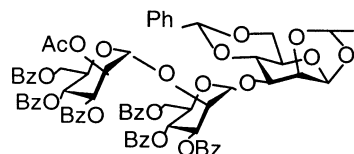
2,3,4,6-Tetra-*O*-benzoyl- $\alpha$ -D-mannopyranosyl-(1 $\rightarrow$ 3)-1,2-*O*-ethylidene- $\beta$ -D-mannopyranose

$[\alpha]_D = -49.7$  ( $c = 1.2$ ,  $CHCl_3$ )

Absolute configuration: *R*

Jianjun Zhang and Fanzuo Kong\*

*Tetrahedron: Asymmetry 13 (2002) 243*



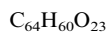
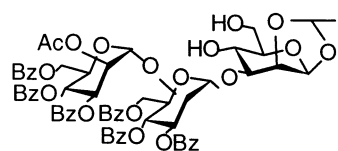
2-*O*-Acetyl-3,4,6-tri-*O*-benzoyl- $\alpha$ -D-mannopyranosyl-(1 $\rightarrow$ 2)-3,4,6-tri-*O*-benzoyl- $\alpha$ -D-mannopyranosyl-(1 $\rightarrow$ 3)-4,6-*O*-benzylidene-1,2-*O*-ethylidene- $\beta$ -D-mannopyranose

$[\alpha]_D = -31.9$  ( $c = 1.0$ ,  $CHCl_3$ )

Absolute configuration: *R*

Jianjun Zhang and Fanzuo Kong\*

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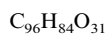
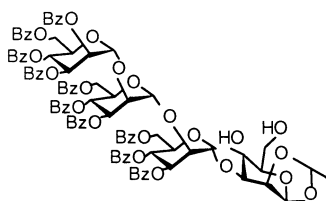
2-*O*-Acetyl-3,4,6-tri-*O*-benzoyl- $\alpha$ -D-mannopyranosyl-(1→2)-3,4,6-tri-*O*-benzoyl- $\alpha$ -D-mannopyranosyl-(1→3)-1,2-*O*-ethylidene- $\beta$ -D-mannopyranose

$[\alpha]_D = -3.8$  ( $c=0.5$ ,  $CHCl_3$ )

Absolute configuration: *R*

Jianjun Zhang and Fanzuo Kong\*

*Tetrahedron: Asymmetry* 13 (2002) 243



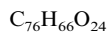
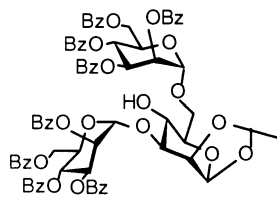
2,3,4,6-Tetra-*O*-benzoyl- $\alpha$ -D-mannopyranosyl-(1→2)-3,4,6-tri-*O*-benzoyl- $\alpha$ -D-mannopyranosyl-(1→2)-3,4,6-tri-*O*-benzoyl- $\alpha$ -D-mannopyranosyl-(1→3)-1,2-*O*-ethylidene- $\beta$ -D-mannopyranose

$[\alpha]_D = -33.3$  ( $c=0.5$ ,  $CHCl_3$ )

Absolute configuration: *R*

Jianjun Zhang and Fanzuo Kong\*

*Tetrahedron: Asymmetry* 13 (2002) 243



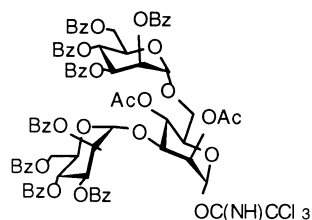
2,3,4,6-Tetra-*O*-benzoyl- $\alpha$ -D-mannopyranosyl-(1→3)-[2,3,4,6-tetra-*O*-benzoyl- $\alpha$ -D-mannopyranosyl-(1→6)]-1,2-*O*-ethylidene- $\beta$ -D-mannopyranose

$[\alpha]_D = -42.2$  ( $c=1.0$ ,  $CHCl_3$ )

Absolute configuration: *R*

Jianjun Zhang and Fanzuo Kong\*

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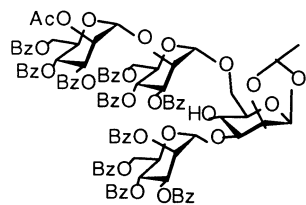


2,3,4,6-Tetra-*O*-benzoyl- $\alpha$ -D-mannopyranosyl-(1→3)-[2,3,4,6-tetra-*O*-benzoyl- $\alpha$ -D-mannopyranosyl-(1→6)]-2,4-di-*O*-acetyl- $\alpha$ -D-mannopyranosyl trichloroacetimidate

$[\alpha]_D = -33.9$  ( $c=1.4$ ,  $CHCl_3$ )

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$[\alpha]_D = -21.6$  ( $c = 1.3$ ,  $\text{CHCl}_3$ )

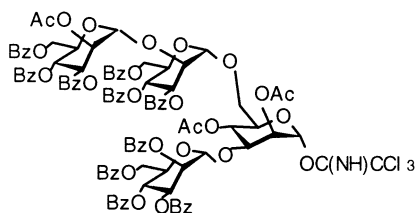
Absolute configuration: *R*

$\text{C}_{98}\text{H}_{86}\text{O}_{32}$

2,3,4,6-Tetra-*O*-benzoyl- $\alpha$ -D-mannopyranosyl-(1→3)-[2-*O*-acetyl-3,4,6-tri-*O*-benzoyl- $\alpha$ -D-mannopyranosyl-(1→2)-3,4,6-tri-*O*-benzoyl- $\alpha$ -D-mannopyranosyl-(1→6)]-1,2-*O*-ethylidene- $\beta$ -D-mannopyranose

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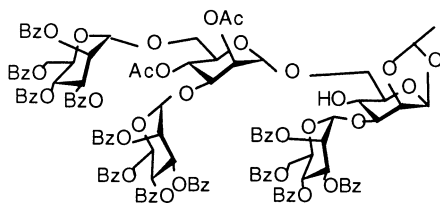
$[\alpha]_D = +3.6$  ( $c = 1.1$ ,  $\text{CHCl}_3$ )

$\text{C}_{102}\text{H}_{88}\text{Cl}_3\text{NO}_{34}$

2,3,4,6-Tetra-*O*-benzoyl- $\alpha$ -D-mannopyranosyl-(1→3)-[2-*O*-acetyl-3,4,6-tri-*O*-benzoyl- $\alpha$ -D-mannopyranosyl-(1→2)-3,4,6-tri-*O*-benzoyl- $\alpha$ -D-mannopyranosyl-(1→6)]-2,4-di-*O*-acetyl- $\alpha$ -D-mannopyranosyl trichloroacetimidate

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$[\alpha]_D = -44.3$  ( $c = 1.0$ ,  $\text{CHCl}_3$ )

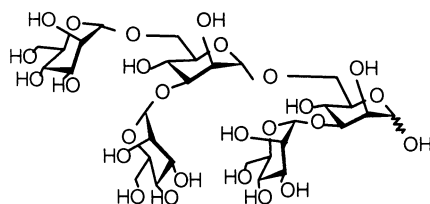
Absolute configuration: *R*

$\text{C}_{120}\text{H}_{106}\text{O}_{40}$

2,3,4,6-Tetra-*O*-benzoyl- $\alpha$ -D-mannopyranosyl-(1→3)-{2,3,4,6-tetra-*O*-benzoyl- $\alpha$ -D-mannopyranosyl-(1→3)-[2,3,4,6-tetra-*O*-benzoyl- $\alpha$ -D-mannopyranosyl-(1→6)]-2,4-di-*O*-acetyl- $\alpha$ -D-mannopyranosyl-(1→6)}-1,2-*O*-ethylidene- $\beta$ -D-mannopyranose

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$[\alpha]_D = +46.5$  ( $c = 1.0$ ,  $\text{D}_2\text{O}$ )

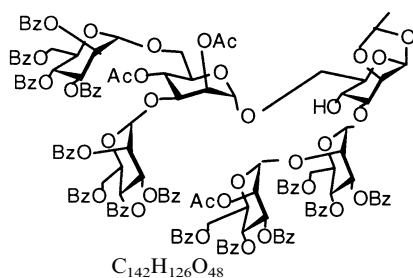
$\text{C}_{30}\text{H}_{52}\text{O}_{26}$

$\alpha$ -D-Mannopyranosyl-(1→3)-{ $\alpha$ -D-mannopyranosyl-(1→3)-[ $\alpha$ -D-mannopyranosyl-(1→6)]- $\alpha$ -D-mannopyranosyl-(1→6)}-D-mannopyranose



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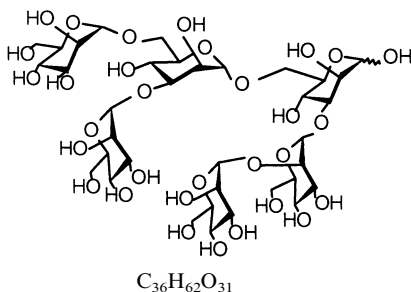
$[\alpha]_D = -14.3$  (*c* 1.5, CHCl<sub>3</sub>)

Absolute configuration: *R*

2-*O*-Acetyl-3,4,6-tri-*O*-benzoyl-α-D-mannopyranosyl-(1→2)-3,4,6-tri-*O*-benzoyl-α-D-mannopyranosyl-(1→3)-{2,3,4,6-tetra-*O*-benzoyl-α-D-mannopyranosyl-(1→3)-[2,3,4,6-tetra-*O*-benzoyl-α-D-mannopyranosyl-(1→6)]-2,4-di-*O*-acetyl-α-D-mannopyranosyl-(1→6)}-1,2-*O*-ethylidene-β-D-mannopyranose

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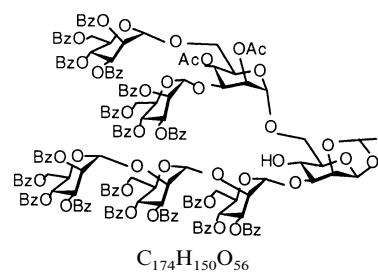


$[\alpha]_D = +80.0$  (*c* 1.0, D<sub>2</sub>O)

α-D-Mannopyranosyl-(1→2)-α-D-mannopyranosyl-(1→3)-{α-D-mannopyranosyl-(1→3)-[α-D-mannopyranosyl-(1→6)]-α-D-mannopyranosyl-(1→6)}-D-mannopyranose

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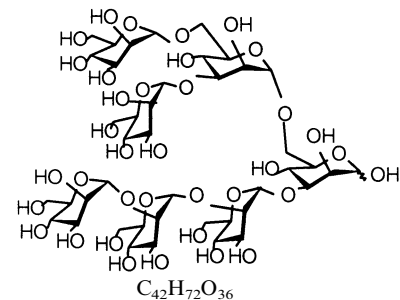
$[\alpha]_D = -17.5$  (*c* = 1.0, CHCl<sub>3</sub>)

Absolute configuration: *S*

2,3,4,6-Tetra-*O*-benzoyl-α-D-mannopyranosyl-(1→2)-3,4,6-tri-*O*-benzoyl-α-D-mannopyranosyl-(1→2)-3,4,6-tri-*O*-benzoyl-α-D-mannopyranosyl-(1→3)-{2,3,4,6-tetra-*O*-benzoyl-α-D-mannopyranosyl-(1→3)-[2,3,4,6-tetra-*O*-benzoyl-α-D-mannopyranosyl-(1→6)]-2,4-di-*O*-acetyl-α-D-mannopyranosyl-(1→6)}-1,2-*O*-ethylidene-β-D-mannopyranose

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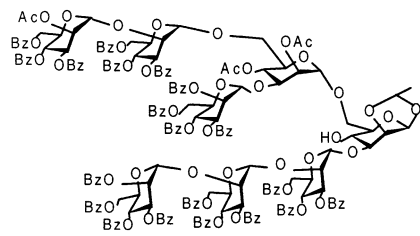


$[\alpha]_D = +74.5$  (*c* = 1.0, D<sub>2</sub>O)

α-D-Mannopyranosyl-(1→2)-α-D-mannopyranosyl-(1→2)-α-D-mannopyranosyl-(1→3)-{α-D-mannopyranosyl-(1→3)-[α-D-mannopyranosyl-(1→6)]-α-D-mannopyranosyl-(1→6)}-D-mannopyranose

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$C_{196}H_{170}O_{64}$

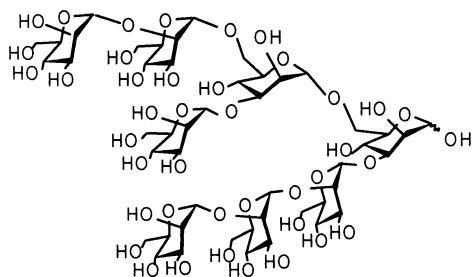
2,3,4,6-Tetra-*O*-benzoyl- $\alpha$ -D-mannopyranosyl-(1 $\rightarrow$ 2)-3,4,6-tri-*O*-benzoyl- $\alpha$ -D-mannopyranosyl-(1 $\rightarrow$ 2)-3,4,6-tri-*O*-benzoyl- $\alpha$ -D-mannopyranosyl-(1 $\rightarrow$ 3)-{2,3,4,6-tetra-*O*-benzoyl- $\alpha$ -D-mannopyranosyl-(1 $\rightarrow$ 3)-[2-*O*-acetyl-3,4,6-tri-*O*-benzoyl- $\alpha$ -D-mannopyranosyl-(1 $\rightarrow$ 2)-3,4,6-tri-*O*-benzoyl- $\alpha$ -D-mannopyranosyl-(1 $\rightarrow$ 6)]-2,4-di-*O*-acetyl- $\alpha$ -D-mannopyranosyl-(1 $\rightarrow$ 6)}-1,2-*O*-ethylidene- $\beta$ -D-mannopyranose

$[\alpha]_D = -9.9$  ( $c = 1.0$ ,  $CHCl_3$ )

Absolute configuration: *R*

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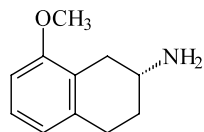
$C_{48}H_{82}O_{41}$

$\alpha$ -D-Mannopyranosyl-(1 $\rightarrow$ 2)- $\alpha$ -D-mannopyranosyl-(1 $\rightarrow$ 2)- $\alpha$ -D-mannopyranosyl-(1 $\rightarrow$ 3)-{ $\alpha$ -D-mannopyranosyl-(1 $\rightarrow$ 3)-[ $\alpha$ -D-mannopyranosyl-(1 $\rightarrow$ 2)- $\alpha$ -D-mannopyranosyl-(1 $\rightarrow$ 6)]- $\alpha$ -D-mannopyranosyl-(1 $\rightarrow$ 6)}-D-mannopyranose

$[\alpha]_D = +30.7$  ( $c = 1.0$ ,  $D_2O$ )

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(2*R*)-2-Amino-8-methoxy-1,2,3,4-tetrahydronaphthalene

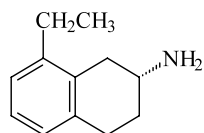
$[\alpha]_D = +79.7$  ( $c = 5.8$  mg/mL, chloroform)

Source of chirality: (1*R*,2*S*)-1,2-dihydroxy-8-methoxy-1,2-dihydronaphthalene

Absolute configuration: 2*R*

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(2*R*)-2-Amino-8-ethyl-1,2,3,4-tetrahydronaphthalene

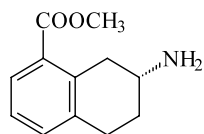
$[\alpha]_D = +73.0$  ( $c = 8.05$  mg/mL, chloroform)

Source of chirality: (1*R*,2*S*)-1,2-dihydroxy-8-ethyl-1,2-dihydronaphthalene

Absolute configuration: 2*R*

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(2*R*)-2-Amino-8-carbomethoxy-1,2,3,4-tetrahydronaphthalene

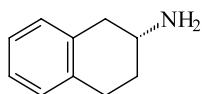
$[\alpha]_D = +119.25$  ( $c = 5.2$  mg/mL, chloroform)

Source of chirality: (1*R*,2*S*)-1,2-dihydroxy-8-carbomethoxy-1,2-dihydronaphthalene

Absolute configuration: 2*R*

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(2*R*)-2-Amino-1,2,3,4-tetrahydronaphthalene

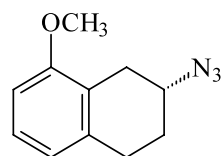
$[\alpha]_D = +85.4$  ( $c = 5.0$  mg/mL, chloroform)

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

Absolute configuration: 2*R*

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(2*R*)-2-Azido-8-methoxy-1,2,3,4-tetrahydronaphthalene

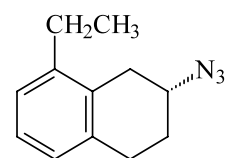
$[\alpha]_D = +34.8$  ( $c = 5.4$  mg/mL, chloroform)

Source of chirality: (1*R*,2*S*)-1,2-dihydroxy-8-methoxy-1,2-dihydronaphthalene

Absolute configuration: 2*R*

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(2*R*)-2-Azido-8-ethyl-1,2,3,4-tetrahydronaphthalene

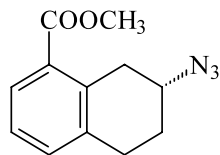
$[\alpha]_D = +34.1$  ( $c = 20.0$  mg/mL, chloroform)

Source of chirality: (1*R*,2*S*)-1,2-dihydroxy-8-ethyl-1,2-dihydronaphthalene

Absolute configuration: 2*R*

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(2*R*)-2-Azido-8-carbomethoxy-1,2,3,4-tetrahydronaphthalene

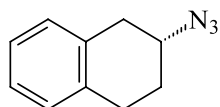
$[\alpha]_D = +8.8$  ( $c = 26.1$  mg/mL, chloroform)

Source of chirality: (1*R*,2*S*)-1,2-dihydroxy-8-carbomethoxy-1,2-dihydronaphthalene

Absolute configuration: 2*R*

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(2*R*)-2-Azido-1,2,3,4-tetrahydronaphthalene

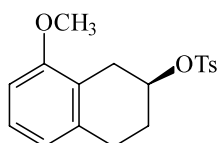
$[\alpha]_D = +59.3$  ( $c = 6.0$  mg/mL, chloroform)

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

Absolute configuration: 2*R*

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(2*S*)-2-*p*-Toluenesulphonyloxy-8-methoxy-1,2,3,4-tetrahydronaphthalene

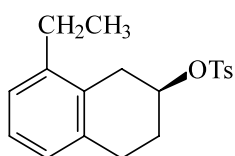
$[\alpha]_D = -33.5$  ( $c = 11.9$  mg/mL, chloroform)

Source of chirality: (1*R*,2*S*)-1,2-dihydroxy-8-methoxy-1,2-dihydronaphthalene

Absolute configuration: 2*S*

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(2*S*)-2-*p*-Toluenesulphonyloxy-8-ethyl-1,2,3,4-tetrahydronaphthalene

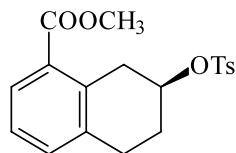
$[\alpha]_D = -43.2$  ( $c = 8.19$  mg/mL, chloroform)

Source of chirality: (1*R*,2*S*)-1,2-dihydroxy-8-ethyl-1,2-dihydronaphthalene

Absolute configuration: 2*S*

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(2S)-2-*p*-Toluenesulphonyloxy-8-carbomethoxy-1,2,3,4-tetrahydronaphthalene

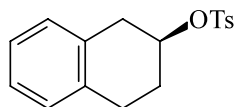
$[\alpha]_D = -4.4$  ( $c = 14.1$  mg/mL, chloroform)

Source of chirality: (1*R*,2*S*)-1,2-dihydroxy-8-carbomethoxy-1,2-dihydronaphthalene

Absolute configuration: 2*S*

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(2S)-2-*p*-Toluenesulphonyloxy-1,2,3,4-tetrahydronaphthalene

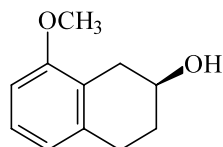
$[\alpha]_D = -42.9$  ( $c = 16.4$  mg/mL, chloroform)

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

Absolute configuration: 2*S*

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(2S)-2-Hydroxy-8-methoxy-1,2,3,4-tetrahydronaphthalene

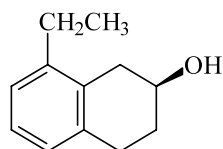
$[\alpha]_D = -50.5$  ( $c = 8.7$  mg/mL, chloroform)

Source of chirality: (1*R*,2*S*)-1,2-dihydroxy-8-methoxy-1,2-dihydronaphthalene

Absolute configuration: 2*S*

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(2S)-2-Hydroxy-8-ethyl-1,2,3,4-tetrahydronaphthalene

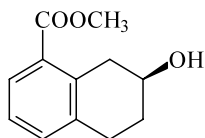
$[\alpha]_D = -46.3$  ( $c = 5.38$  mg/mL, chloroform)

Source of chirality: (1*R*,2*S*)-1,2-dihydroxy-8-ethyl-1,2-dihydronaphthalene

Absolute configuration: 2*S*

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(2S)-2-Hydroxy-8-carbomethoxy-1,2,3,4-tetrahydronaphthalene

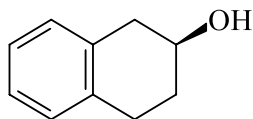
$[\alpha]_D = -3.2$  ( $c = 5.67$  mg/mL, chloroform)

Source of chirality: (1*R*,2*S*)-1,2-dihydroxy-8-carbomethoxy-1,2-dihydronaphthalene

Absolute configuration: 2*S*

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(2S)-2-Hydroxy-1,2,3,4-tetrahydronaphthalene

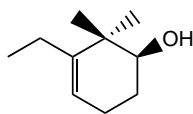
$[\alpha]_D = -61.9$  ( $c = 10.7$  mg/mL, methanol)

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

Absolute configuration: 2*S*

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$C_9H_{18}O$

3-Ethyl-2,2-dimethyl-(1*S*)-3-cyclohexen-1-ol

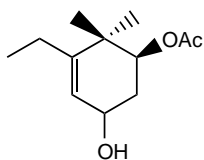
$[\alpha]_D = -15.9$  ( $c$  1,  $CHCl_3$ )

Source of chirality: (*S*)-diphenylprolinol

Absolute configuration: 1*S*

S. Chandrasekhar\* and Ch. Raji Reddy

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$C_{11}H_{20}O_3$

3-Ethyl-5-hydroxy-2,2-dimethyl-(1*S*)-3-cyclohexenyl acetate

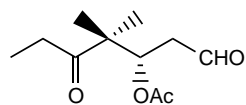
$[\alpha]_D = -12.6$  ( $c$  0.8,  $CHCl_3$ )

Source of chirality: (*S*)-diphenylprolinol

Absolute configuration: 1*S*

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*Tetrahedron: Asymmetry 13 (2002) 261*



C<sub>9</sub>H<sub>14</sub>O<sub>3</sub>

1-Formylmethyl-2,2-dimethyl-3-oxo-(1*S*)-pentyl acetate

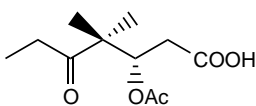
[ $\alpha$ ]<sub>D</sub> = -2.5 (c 2, CHCl<sub>3</sub>)

Source of chirality: (*S*)-diphenylprolinol

Absolute configuration: 1*S*

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C<sub>9</sub>H<sub>14</sub>O<sub>4</sub>

4,4-Dimethyl-3-methylcarbonyloxy-5-oxo-(3*S*)-heptanoic acid

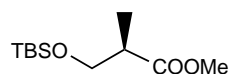
[ $\alpha$ ]<sub>D</sub> = +12.4 (c 1, CHCl<sub>3</sub>)

Source of chirality: (*S*)-diphenylprolinol

Absolute configuration: 3*S*

S. Chandrasekhar\* and Ch. Raji Reddy

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C<sub>15</sub>H<sub>23</sub>O<sub>3</sub>Si

Methyl 3-*tert*-butyl dimethylsilyloxy-2-methyl-(2*R*)-propanoate

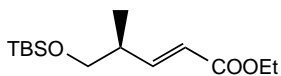
[ $\alpha$ ]<sub>D</sub> = +17.7 (c 1.7, CHCl<sub>3</sub>)

Source of chirality: methyl L-hydroxy propionate

Absolute configuration: 2*R*

S. Chandrasekhar\* and Ch. Raji Reddy

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C<sub>14</sub>H<sub>28</sub>O<sub>3</sub>Si

Ethyl 5-*tert*-butyldimethylsilyloxy-4-methyl-(*E*,4*S*)-2-pentenoate

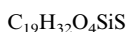
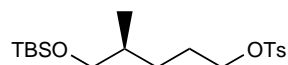
[ $\alpha$ ]<sub>D</sub> = +12.8 (c 1.3, CHCl<sub>3</sub>)

Source of chirality: methyl L-hydroxy

Absolute configuration: 4*S*

S. Chandrasekhar\* and Ch. Raji Reddy

*Tetrahedron: Asymmetry 13 (2002) 261*



5-*tert*-Butyl dimethylsilyloxy-4-methyl-(4*S*)-pentyl 4-methyl-1-benzenesulfonate

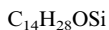
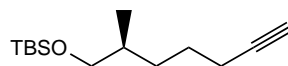
$[\alpha]_D = +6.6$  (*c* 0.6,  $CHCl_3$ )

Source of chirality: methyl L-hydroxy propionate

Absolute configuration: 4*S*

S. Chandrasekhar\* and Ch. Raji Reddy

*Tetrahedron: Asymmetry 13 (2002) 261*



7-*tert*-Butyl dimethylsilyloxy-6-methyl-(6*S*)-1-heptyne

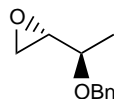
$[\alpha]_D = +5.2$  (*c* 0.5,  $CHCl_3$ )

Source of chirality: methyl L-hydroxy propionate

Absolute configuration: 6*S*

S. Chandrasekhar\* and Ch. Raji Reddy

*Tetrahedron: Asymmetry 13 (2002) 261*



2-[1-Benzyloxy-(1*R*)-ethyl]-(2*S*)-oxirane

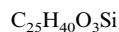
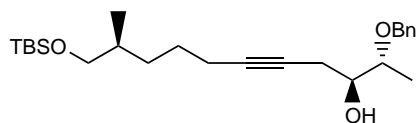
$[\alpha]_D = +4.5$  (*c* 1.56, EtOH)

Source of chirality: (-)-diisopropyl tartrate

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

S. Chandrasekhar\* and Ch. Raji Reddy

*Tetrahedron: Asymmetry 13 (2002) 261*



2-Benzyloxy-11-*tert*-butyldimethylsilyloxy-10-methyl-(2*R*,3*S*,10*S*)-5-undecyn-3-ol

$[\alpha]_D = +7.9$  (*c* 1,  $CHCl_3$ )

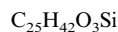
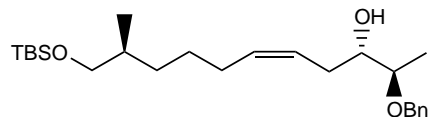
Source of chirality: methyl L-hydroxypropionate and (-)-diisopropyl tartaric acid

Absolute configuration: 2*R*,3*S*,10*S*



S. Chandrasekhar\* and Ch. Raji Reddy

*Tetrahedron: Asymmetry 13 (2002) 261*



1-[10-(*tert*-Butyldimethylsilyloxy)-1,9-dimethyl-(1*R*,2*S*,4*Z*,9*S*)-4-decenyloxymethyl]benzene

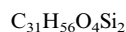
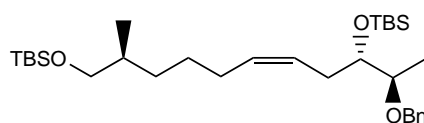
$[\alpha]_D = +14.8$  (*c* 1.6,  $CHCl_3$ )

Source of chirality: methyl L-hydroxypropionate and (-)-diisopropyl tartarate

Absolute configuration: 1*R*,2*S*,9*S*

S. Chandrasekhar\* and Ch. Raji Reddy

*Tetrahedron: Asymmetry 13 (2002) 261*



1-[2,10-Di(*tert*-butyldimethylsilyloxy)-1,9-dimethyl-(1*R*,2*S*,4*Z*,9*S*)-4-decenyloxymethyl]benzene

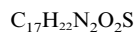
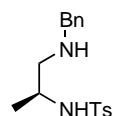
$[\alpha]_D = +9.8$  (*c* 0.8,  $CHCl_3$ )

Source of chirality: methyl L-hydroxypropionate and (-)-diisopropyl tartarate

Absolute configuration: 1*R*,2*S*,9*S*

J. Erik W. Scheuermann, Gennadiy Ilyashenko, D. Vaughan Griffiths and Michael Watkinson\*

*Tetrahedron: Asymmetry 13 (2002) 269*



*N*-[2-(Benzylamino)-1-methylethyl]-4-methylbenzenesulfonamide

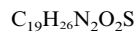
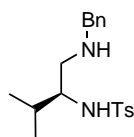
$[\alpha]_D^{25} = -4.8$  (*c* 0.5,  $CHCl_3$ )

Source of chirality: L-alanine

Absolute configuration: 1*S*

J. Erik W. Scheuermann, Gennadiy Ilyashenko, D. Vaughan Griffiths and Michael Watkinson\*

*Tetrahedron: Asymmetry 13 (2002) 269*



*N*-[1-(Benzylaminomethyl)-2-methylpropyl]-4-methylbenzenesulfonamide

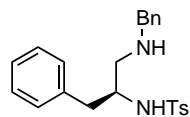
$[\alpha]_D^{25} = -18.8$  (*c* 0.5,  $CHCl_3$ )

Source of chirality: L-valine

Absolute configuration: 2*S*

J. Erik W. Scheuermann, Gennadiy Ilyashenko, D. Vaughan Griffiths  
and Michael Watkinson\*

*Tetrahedron: Asymmetry 13 (2002) 269*



C<sub>23</sub>H<sub>26</sub>N<sub>2</sub>O<sub>2</sub>S

*N*-(1-Benzyl-2-benzylaminoethyl)-4-methylbenzenesulfonamide

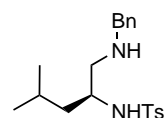
$[\alpha]_D^{25} = -4.0$  (*c* 0.5, CHCl<sub>3</sub>)

Source of chirality: L-phenylalanine

Absolute configuration: 2*S*

J. Erik W. Scheuermann, Gennadiy Ilyashenko, D. Vaughan Griffiths  
and Michael Watkinson\*

*Tetrahedron: Asymmetry 13 (2002) 269*



C<sub>20</sub>H<sub>28</sub>N<sub>2</sub>O<sub>2</sub>S

*N*-[1-(Benzylaminomethyl)-3-methylbutyl]-4-methylbenzenesulfonamide

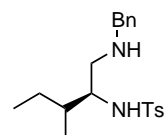
$[\alpha]_D^{25} = -19.2$  (*c* 0.5, CHCl<sub>3</sub>)

Source of chirality: L-leucine

Absolute configuration: 2*S*

J. Erik W. Scheuermann, Gennadiy Ilyashenko, D. Vaughan Griffiths  
and Michael Watkinson\*

*Tetrahedron: Asymmetry 13 (2002) 269*



C<sub>20</sub>H<sub>28</sub>N<sub>2</sub>O<sub>2</sub>S

*N*-[1-(Benzylaminomethyl)-2-methylbutyl]-4-methylbenzenesulfonamide

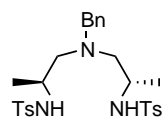
$[\alpha]_D^{25} = -3.6$  (*c* 0.5, CHCl<sub>3</sub>)

Source of chirality: L-isoleucine

Absolute configuration: 2*S*

J. Erik W. Scheuermann, Gennadiy Ilyashenko, D. Vaughan Griffiths  
and Michael Watkinson\*

*Tetrahedron: Asymmetry 13 (2002) 269*



C<sub>27</sub>H<sub>35</sub>N<sub>3</sub>O<sub>4</sub>S<sub>2</sub>

*N*-(1-{*N'*-Benzyl-*N'*-[(2-{4-methylbenzenesulfonylamino}-propyl)aminomethyl]ethyl}-4-methylbenzenesulfonamide

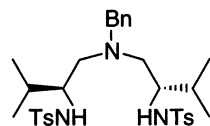
$[\alpha]_D^{25} = -43.2$  (*c* 0.5, CHCl<sub>3</sub>)

Source of chirality: L-alanine

Absolute configuration: 1*S*,1'*S*

J. Erik W. Scheuermann, Gennadiy Ilyashenko, D. Vaughan Griffiths  
and Michael Watkinson\*

*Tetrahedron: Asymmetry 13 (2002) 269*



*N*-(1-{*N'*-Benzyl-*N'*-[(2-{4-methylbenzenesulfonylamino}-3-methyl-butyl)aminomethyl]-2-methylpropyl}-4-methylbenzenesulfonamide

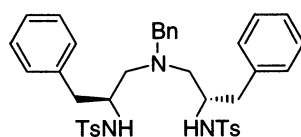
$[\alpha]_D^{25} = -37.6$  (*c* 0.5,  $CHCl_3$ )

Source of chirality: L-valine

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

J. Erik W. Scheuermann, Gennadiy Ilyashenko, D. Vaughan Griffiths  
and Michael Watkinson\*

*Tetrahedron: Asymmetry 13 (2002) 269*



*N*-(1-{*N'*-Benzyl-*N'*-[(2-{4-methylbenzenesulfonylamino}-propyl)aminomethyl]ethyl}-4-methylbenzenesulfonamide

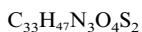
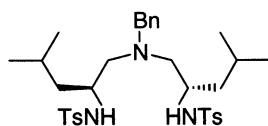
$[\alpha]_D^{25} = -18.0$  (*c* 0.5,  $CHCl_3$ )

Source of chirality: L-phenylalanine

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

J. Erik W. Scheuermann, Gennadiy Ilyashenko, D. Vaughan Griffiths  
and Michael Watkinson\*

*Tetrahedron: Asymmetry 13 (2002) 269*



*N*-(1-{*N'*-Benzyl-*N'*-[(2-{4-methylbenzenesulfonylamino}-3-phenylpropyl)aminomethyl]-2-phenylethyl}-4-methylbenzenesulfonamide

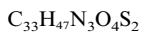
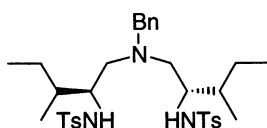
$[\alpha]_D^{25} = -39.6$  (*c* 0.5,  $CHCl_3$ )

Source of chirality: L-leucine

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

J. Erik W. Scheuermann, Gennadiy Ilyashenko, D. Vaughan Griffiths  
and Michael Watkinson\*

*Tetrahedron: Asymmetry 13 (2002) 269*



*N*-(1-{*N'*-Benzyl-*N'*-[(2-{4-methylbenzenesulfonylamino}-4-methylpentyl)aminomethyl]-3-methylbutyl}-4-methylbenzenesulfonamide

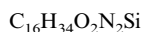
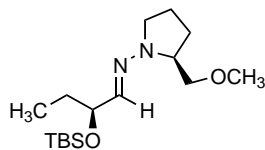
$[\alpha]_D^{25} = -15.6$  (*c* 0.5,  $CHCl_3$ )

Source of chirality: L-isoleucine

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

Dieter Enders,\* Bert Nolte, Gerhard Raabe and Jan Runsink

*Tetrahedron: Asymmetry 13 (2002) 285*



(2*S*,2*S*)-(-)-(E)-*N*-[2-(*tert*-Butyldimethylsilyloxy)-but-1-ylidene]-*N*-(2-methoxymethyl-pyrrolidin-1-yl)-amine

E.e. >96% (based on parent hydrazone)

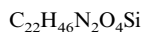
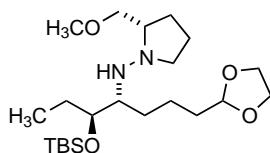
$[\alpha]_D^{26} = -78.0$  (*c* 1.03,  $CHCl_3$ )

Source of chirality: asymmetric synthesis

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

Dieter Enders,\* Bert Nolte, Gerhard Raabe and Jan Runsink

*Tetrahedron: Asymmetry 13 (2002) 285*



(1*R*,2*S*,2*S*)-(-)-*N*-[2-(*tert*-Butyldimethylsilyloxy)-1-(3-[1,3]dioxolan-2-yl-propyl)-butyl]-*N*-(2-methoxymethyl-pyrrolidin-1-yl)-amine

E.e. >96% (based on parent hydrazone)

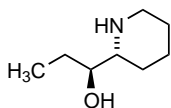
$[\alpha]_D^{24} = -44.0$  (*c* 1.11,  $CHCl_3$ )

Source of chirality: asymmetric synthesis

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

Dieter Enders,\* Bert Nolte, Gerhard Raabe and Jan Runsink

*Tetrahedron: Asymmetry 13 (2002) 285*



(-)- $\alpha$ -Conhydrine

E.e. >96% (based on parent hydrazine)

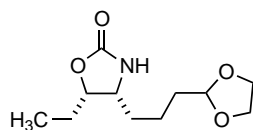
$[\alpha]_D^{27} = -8.6$  (*c* 0.68, EtOH)

Source of chirality: asymmetric synthesis

Absolute configuration: 2*R*,7*S*

Dieter Enders,\* Bert Nolte, Gerhard Raabe and Jan Runsink

*Tetrahedron: Asymmetry 13 (2002) 285*



(5*S*,4*R*)-(+)-4-([1,3]-Dioxolan-2-yl-propyl)-5-ethyl-oxazolidin-2-one

E.e. >96% (based on parent hydrazine)

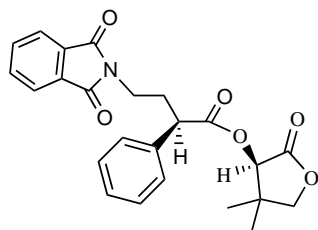
$[\alpha]_D^{26} = +8.8$  (*c* 0.97,  $CHCl_3$ )

Source of chirality: asymmetric synthesis

Absolute configuration: 4*R*,5*S*

Monique Calmès,\* Françoise Escale and Jean Martinez

*Tetrahedron: Asymmetry 13 (2002) 293*



$C_{24}H_{23}NO_6$

*N*-Phthalyl-3-amino-2-phenylbutyric acid pantolactonyl ester

D.e. >99%

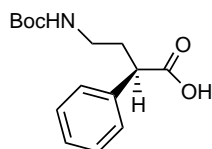
$[\alpha]_D^{20} -21$  ( $c=1.5$ ,  $CH_2Cl_2$ )

Source of chirality: (*R*)-pantolactone

Absolute configuration: *R,3'R*

Monique Calmès,\* Françoise Escale and Jean Martinez

*Tetrahedron: Asymmetry 13 (2002) 293*



$C_{15}H_{21}NO_4$

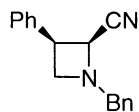
*N*-Boc-(*R*)-3-Amino-2-phenylbutyric acid

$[\alpha]_D^{20} -67$  ( $c=0.6$ ,  $CH_2Cl_2$ )

Absolute configuration: *R* (assigned using literature data)

Claude Agami, François Couty\* and Gwilherm Evano

*Tetrahedron: Asymmetry 13 (2002) 297*



$C_{17}H_{16}N_2$

(*2S,3R*)-1-Benzyl-3-phenyl-azetidine-2-carbonitrile

E.e. >95%

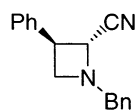
$[\alpha]_D^{20} = -37$  ( $c$  0.5,  $CHCl_3$ )

Source of chirality: (*R*)-phenylglycinol

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

Claude Agami, François Couty\* and Gwilherm Evano

*Tetrahedron: Asymmetry 13 (2002) 297*



$C_{17}H_{16}N_2$

(*2R,3R*)-1-Benzyl-3-phenyl-azetidine-2-carbonitrile

E.e. >95%

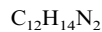
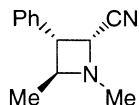
$[\alpha]_D^{20} = -42$  ( $c$  0.6,  $CHCl_3$ )

Source of chirality: (*R*)-phenylglycinol

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

Claude Agami, François Couty\* and Gwilherm Evano

*Tetrahedron: Asymmetry 13 (2002) 297*



(2*R*,3*S*,4*S*)-1,4-Dimethyl-3-phenyl-azetid-2-carbonitrile

E.e. >95%

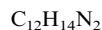
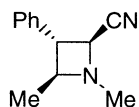
$[\alpha]_D^{20} = +42$  (*c* 1,  $CHCl_3$ )

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

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

Claude Agami, François Couty\* and Gwilherm Evano

*Tetrahedron: Asymmetry 13 (2002) 297*



(2*R*,3*S*,4*S*)-1,4-Dimethyl-3-phenyl-azetid-2-carbonitrile

E.e. >95%

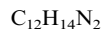
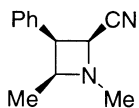
$[\alpha]_D^{20} = -95$  (*c* 1.4,  $CHCl_3$ )

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

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

Claude Agami, François Couty\* and Gwilherm Evano

*Tetrahedron: Asymmetry 13 (2002) 297*



(2*R*,3*S*,4*S*)-1,4-Dimethyl-3-phenyl-azetid-2-carbonitrile

E.e. >95%

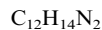
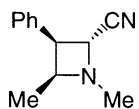
$[\alpha]_D^{20} = -148$  (*c* 1,  $CHCl_3$ )

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

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

Claude Agami, François Couty\* and Gwilherm Evano

*Tetrahedron: Asymmetry 13 (2002) 297*



(2*R*,3*S*,4*S*)-1,4-Dimethyl-3-phenyl-azetid-2-carbonitrile

E.e. >95%

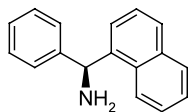
$[\alpha]_D^{20} = -148$  (*c* 1,  $CHCl_3$ )

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

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

Niklas Plobeck\* and David Powell

*Tetrahedron: Asymmetry 13 (2002) 303*



C<sub>17</sub>H<sub>15</sub>N

( $\alpha^1S$ )- $\alpha$ -Phenyl-1-naphthalenemethanamine

E.e. = 99%

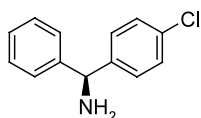
$[\alpha]_D^{23} = -17.8$  (c 0.6, CHCl<sub>3</sub>)

Source of chirality: asymmetric synthesis

Absolute configuration: *S*

Niklas Plobeck\* and David Powell

*Tetrahedron: Asymmetry 13 (2002) 303*



C<sub>13</sub>H<sub>12</sub>NCl

( $\alpha^1S$ )-4-Chloro- $\alpha$ -phenyl-benzenemethanamine

E.e. = 76%

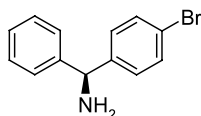
$[\alpha]_D^{23} = +0.30$  (c 1.0, MeOH)

Source of chirality: asymmetric synthesis

Absolute configuration: *S*

Niklas Plobeck\* and David Powell

*Tetrahedron: Asymmetry 13 (2002) 303*



C<sub>13</sub>H<sub>12</sub>BrN

( $\alpha^1S$ )-4-Bromo- $\alpha$ -phenyl-benzenemethanamine

E.e. = 70%

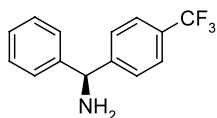
$[\alpha]_D^{23} = +1.2$  (c 1.0, MeOH)

Source of chirality: asymmetric synthesis

Absolute configuration: *S*

Niklas Plobeck\* and David Powell

*Tetrahedron: Asymmetry 13 (2002) 303*



C<sub>14</sub>H<sub>12</sub>F<sub>3</sub>N

( $\alpha^1S$ )- $\alpha$ -Phenyl-4-(trifluoromethyl)-benzenemethanamine

E.e. = 60%

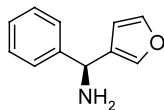
$[\alpha]_D^{23} = +0.81$  (c 1.0, MeOH)

Source of chirality: asymmetric synthesis

Absolute configuration: *S*

Niklas Plobeck\* and David Powell

*Tetrahedron: Asymmetry 13 (2002) 303*



C<sub>11</sub>H<sub>11</sub>NO

( $\alpha^3S$ )- $\alpha$ -Phenyl-3-furanmethanamine

E.e. = 94%

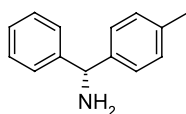
$[\alpha]_D^{23} = -0.42$  (c 2.0, MeOH)

Source of chirality: asymmetric synthesis

Absolute configuration: *S*

Niklas Plobeck\* and David Powell

*Tetrahedron: Asymmetry 13 (2002) 303*



C<sub>14</sub>H<sub>15</sub>N

( $\alpha^1R$ )-4-Methyl- $\alpha$ -phenyl-benzenemethanamine

E.e. = 76%

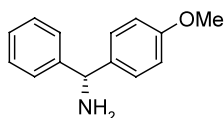
$[\alpha]_D^{23} = -0.16$  (c 1.0, EtOH)

Source of chirality: asymmetric synthesis

Absolute configuration: *R*

Niklas Plobeck\* and David Powell

*Tetrahedron: Asymmetry 13 (2002) 303*



C<sub>14</sub>H<sub>15</sub>NO

( $\alpha^1R$ )-4-Methoxy- $\alpha$ -phenyl-benzenemethanamine

E.e. = 82%

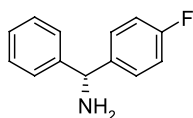
$[\alpha]_D^{23} = +0.28$  (c 1.5, MeOH)

Source of chirality: asymmetric synthesis

Absolute configuration: *R*

Niklas Plobeck\* and David Powell

*Tetrahedron: Asymmetry 13 (2002) 303*



C<sub>13</sub>H<sub>12</sub>FN

( $\alpha^1R$ )-4-Fluoro- $\alpha$ -phenyl-benzenemethanamine

E.e. = 84%

$[\alpha]_D^{23} = +0.07$  (c 0.8, MeOH)

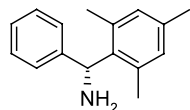
Source of chirality: asymmetric synthesis

Absolute configuration: *R*



Niklas Plobeck\* and David Powell

*Tetrahedron: Asymmetry 13 (2002) 303*



C<sub>16</sub>H<sub>19</sub>N

( $\alpha^1 R$ )-2,4,6-Trimethyl- $\alpha$ -phenyl-benzenemethanamine

E.e. = 46%

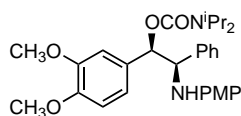
$[\alpha]_D^{23} = +0.41$  ( $c$  1.5, MeOH)

Source of chirality: asymmetric synthesis

Absolute configuration: *R*

Sonia Arrasate, Esther Lete\* and Nuria Sotomayor

*Tetrahedron: Asymmetry 13 (2002) 311*



C<sub>30</sub>H<sub>38</sub>N<sub>2</sub>O<sub>5</sub>

(1*R*,2*R*)-*O*-(*N,N*-Diisopropylcarbamoyl)-*N*-(*p*-methoxyphenyl)-1-(3,4-dimethoxyphenyl)-2-phenyl-2-aminoethanol

E.e. = 96%

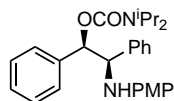
$[\alpha]_D^{20} = -19.1$  ( $c$  = 0.2, CHCl<sub>3</sub>)

Source of chirality: asymmetric synthesis

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

Sonia Arrasate, Esther Lete\* and Nuria Sotomayor

*Tetrahedron: Asymmetry 13 (2002) 311*



C<sub>28</sub>H<sub>34</sub>N<sub>2</sub>O<sub>3</sub>

(1*R*,2*R*)-*O*-(*N,N*-Diisopropylcarbamoyl)-*N*-(*p*-methoxyphenyl)-1,2-diphenyl-2-aminoethanol

E.e. = 15%

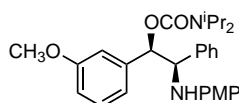
$[\alpha]_D^{20} = -26.5$  ( $c$  = 0.1, CH<sub>2</sub>Cl<sub>2</sub>)

Source of chirality: asymmetric synthesis

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

Sonia Arrasate, Esther Lete\* and Nuria Sotomayor

*Tetrahedron: Asymmetry 13 (2002) 311*



C<sub>24</sub>H<sub>36</sub>N<sub>2</sub>O<sub>4</sub>

(1*R*,2*R*)-*O*-(*N,N*-Diisopropylcarbamoyl)-*N*-(*p*-methoxyphenyl)-1-(3-methoxyphenyl)-2-phenyl-2-aminoethanol

E.e. = 91%

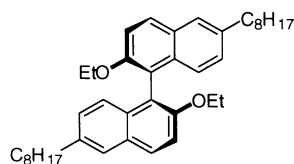
$[\alpha]_D^{20} = -102.2$  ( $c$  = 0.5, CHCl<sub>3</sub>)

Source of chirality: asymmetric synthesis

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

Jin Wook Han and Tamio Hayashi\*

*Tetrahedron: Asymmetry 13 (2002) 325*



(*R*)-2,2'-Diethoxy-6,6'-dioctyl-1,1'-binaphthyl

E.e. >99%

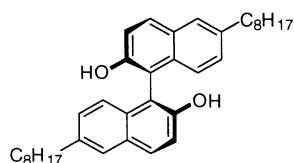
$[\alpha]_D^{20} = +0.4$  (*c* 1.3,  $CHCl_3$ )

Source of chirality: (*R*)-1,1'-bi-2-naphthol

Absolute configuration: *R*

Jin Wook Han and Tamio Hayashi\*

*Tetrahedron: Asymmetry 13 (2002) 325*



(*R*)-6,6'-Dioctyl-1,1'-bi-2-naphthol

E.e. >99%

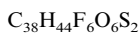
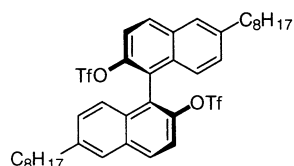
$[\alpha]_D^{20} = -66$  (*c* 1.4,  $CHCl_3$ )

Source of chirality: (*R*)-1,1'-bi-2-naphthol

Absolute configuration: *R*

Jin Wook Han and Tamio Hayashi\*

*Tetrahedron: Asymmetry 13 (2002) 325*



(*R*)-2,2'-Bis(trifluoromethanesulfonyloxy)-6,6'-dioctyl-1,1'-binaphthyl

E.e. >99%

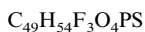
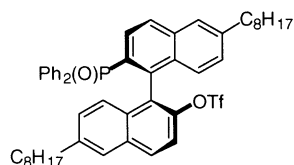
$[\alpha]_D^{20} = -108$  (*c* 1.3,  $CHCl_3$ )

Source of chirality: (*R*)-1,1'-bi-2-naphthol

Absolute configuration: *R*

Jin Wook Han and Tamio Hayashi\*

*Tetrahedron: Asymmetry 13 (2002) 325*



(*R*)-2-Diphenylphosphinyl-6,6'-dioctyl-2'-trifluoromethanesulfonyloxy-1,1'-binaphthyl

E.e. >99%

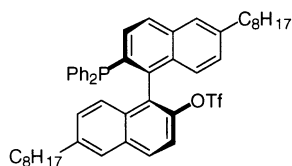
$[\alpha]_D^{20} = +30$  (*c* 1.3,  $CHCl_3$ )

Source of chirality: (*R*)-1,1'-bi-2-naphthol

Absolute configuration: *R*

Jin Wook Han and Tamio Hayashi\*

*Tetrahedron: Asymmetry 13 (2002) 325*



$C_{49}H_{54}F_3O_3PS$

(*R*)-2-Diphenylphosphino-6,6'-dioctyl-2'-trifluoromethanesulfonyloxy-1,1'-binaphthyl

E.e. >99%

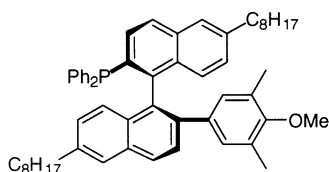
$[\alpha]_D^{20} = -11$  (*c* 1.3,  $CHCl_3$ )

Source of chirality: (*R*)-1,1'-bi-2-naphthol

Absolute configuration: *R*

Jin Wook Han and Tamio Hayashi\*

*Tetrahedron: Asymmetry 13 (2002) 325*



$C_{57}H_{65}OP$

(*R*)-2-Diphenylphosphino-2'-(3,5-dimethyl-4-methoxyphenyl)-6,6'-dioctyl-1,1'-binaphthyl

E.e. >99%

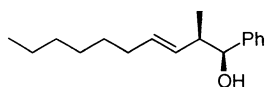
$[\alpha]_D^{20} = -130$  (*c* 0.3,  $CHCl_3$ )

Source of chirality: (*R*)-1,1'-bi-2-naphthol

Absolute configuration: *R*

Jin Wook Han and Tamio Hayashi\*

*Tetrahedron: Asymmetry 13 (2002) 325*



$C_{17}H_{26}O$

(1*S*,2*R*)-(*E*)-2-Methyl-1-phenyl-3-decen-1-ol

E.e. = 69%

$[\alpha]_D^{20} = -12.6$  (*c* 1.1,  $CHCl_3$ )

Source of chirality: asymmetric synthesis

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