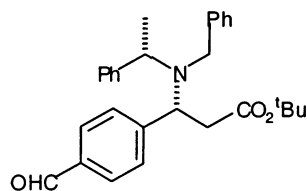


Steven D. Bull, Stephen G. Davies* and Andrew D. Smith

Tetrahedron: Asymmetry 12 (2001) 2941



$C_{29}H_{33}NO_3$

(3*R*, α *S*)-*tert*-Butyl 3-(*N*-benzyl-*N*- α -methylbenzylamino)-3-(4-formylphenyl)propanoate

E.e. $\geq 99\%$; d.e. = 97% (1H NMR analysis)

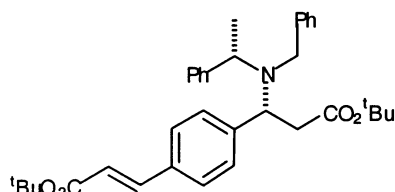
$[\alpha]_D^{25} +18.0$ (c 1.0, $CHCl_3$)

Source of chirality: α -methylbenzylamine and asymmetric synthesis

Absolute configuration (3*R*, α *S*)

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Tetrahedron: Asymmetry 12 (2001) 2941



$C_{35}H_{43}NO_4$

(3*R*, α *S*,*E*)-*tert*-Butyl 3-(*N*-benzyl-*N*- α -methylbenzylamino)-3-[4-*tert*-butoxy-3-oxoprop-1-enyl]phenyl]propanoate

E.e. $\geq 99\%$; d.e. = 97% (1H NMR analysis)

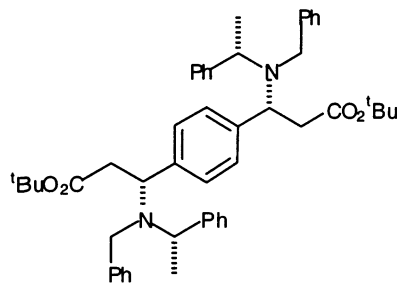
$[\alpha]_D^{25} +13.2$ (c 1.1, $CHCl_3$)

Source of chirality: α -methylbenzylamine and asymmetric synthesis

Absolute configuration (3*R*, α *S*,*E*)

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Tetrahedron: Asymmetry 12 (2001) 2941



$C_{50}H_{60}N_2O_4$

(3*R*, α *S*,3'*R*, α' *S*)-Di-*tert*-butyl benzene-1,4-bis[3-(*N*-benzyl-*N*- α -methylbenzylamino)propanoate]

E.e. $\geq 99\%$; d.e. = 96% (1H NMR analysis)

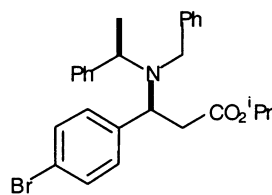
$[\alpha]_D^{25} +11.8$ (c 1.0, $CHCl_3$)

Source of chirality: α -methylbenzylamine and asymmetric synthesis

Absolute configuration (3*R*, α *S*,3'*R*, α' *S*)

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Tetrahedron: Asymmetry 12 (2001) 2941



$C_{27}H_{30}BrNO_2$

(3*S*, α *R*)-*iso*-Propyl 3-(*N*-benzyl-*N*- α -methylbenzylamino)-3-(4-bromophenyl)propanoate

E.e. $\geq 99\%$; d.e. = 95% (1H NMR analysis)

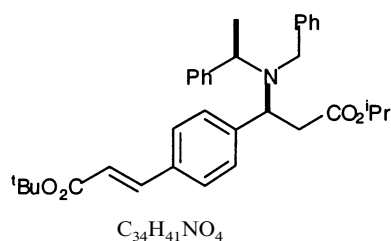
$[\alpha]_D^{23} +5.1$ (c 1.0, $CHCl_3$)

Source of chirality: α -methylbenzylamine and asymmetric synthesis

Absolute configuration (3*S*, α *R*)

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Tetrahedron: Asymmetry 12 (2001) 2941



(3*S*, α *R*,*E*)-iso-Propyl 3-(*N*-benzyl-*N*- α -methylbenzylamino)-3-[4-*tert*-butoxy-3-oxoprop-1-enyl]phenyl]propanoate

E.e. $\geq 99\%$; d.e. = 95% (1H NMR analysis)

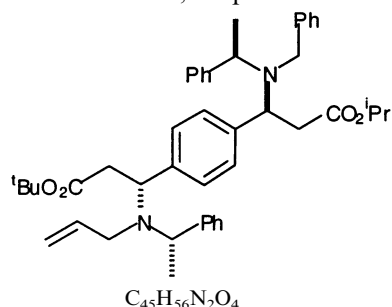
$[\alpha]_D^{24} -5.9$ (*c* 1.55, $CHCl_3$)

Source of chirality: α -methylbenzylamine and asymmetric synthesis

Absolute configuration (3*S*, α *R*,*E*)

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Tetrahedron: Asymmetry 12 (2001) 2941



(3*R*, α *S*,1'*S*, α' *R*)-*tert*-Butyl 3-(*N*-allyl-*N*- α -methylbenzylamino)-3-[4-*iso*-propoxy-3-oxo-1-(*N*-benzyl-*N*- α -methylbenzylamino)propanoate]phenyl]propanoate

E.e. $\geq 99\%$; d.e. = 95% (1H NMR analysis)

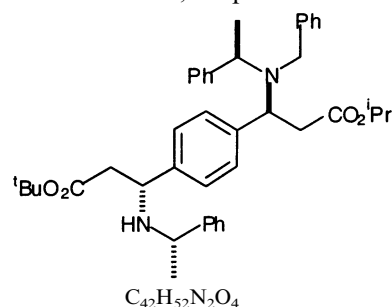
$[\alpha]_D^{25} +1.4$ (*c* 0.85, $CHCl_3$)

Source of chirality: α -methylbenzylamine and asymmetric synthesis

Absolute configuration (3*R*, α *S*,1'*S*, α' *R*)

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Tetrahedron: Asymmetry 12 (2001) 2941



(3*R*, α *S*,1'*S*, α' *R*)-*tert*-Butyl 3-(*N*- α -methylbenzylamino)-3-[4-*iso*-propoxy-3-oxo-1-(*N*-benzyl-*N*- α -methylbenzylamino)propanoate]phenyl]propanoate

E.e. $\geq 99\%$; d.e. = 95% (1H NMR analysis)

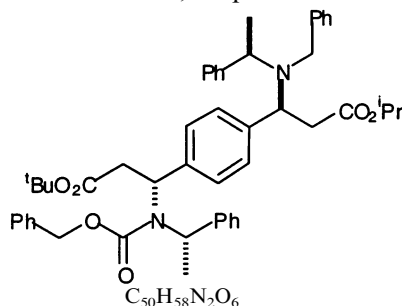
$[\alpha]_D^{25} -7.6$ (*c* 1.0, $CHCl_3$)

Source of chirality: α -methylbenzylamine and asymmetric synthesis

Absolute configuration (3*R*, α *S*,1'*S*, α' *R*)

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Tetrahedron: Asymmetry 12 (2001) 2941



(3*R*, α *S*,1'*S*, α' *R*)-*tert*-Butyl 3-(*N*- α -methylbenzylamino-*N*-benzyloxycarbonyl)-3-[4-*iso*-propoxy-3-oxo-1-(*N*-benzyl-*N*- α -methylbenzylamino)propanoate]phenyl]propanoate

E.e. $\geq 99\%$; d.e. = 95% (1H NMR analysis)

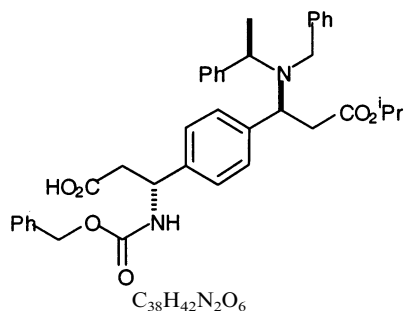
$[\alpha]_D^{23} +4.5$ (*c* 1.0, $CHCl_3$)

Source of chirality: α -methylbenzylamine and asymmetric synthesis

Absolute configuration (3*R*, α *S*,1'*S*, α' *R*)

Steven D. Bull, Stephen G. Davies* and Andrew D. Smith

Tetrahedron: Asymmetry 12 (2001) 2941



(3*S*, α *R*,1'*R*)-*iso*-Propyl 3-(*N*-benzyl-*N*- α -methylbenzylamino)-3-{4-[1-(*N*-benzyloxycarbonyl)propionic acid]phenyl}propanoate

E.e. $\geq 99\%$; d.e. = 95% (1H NMR analysis)

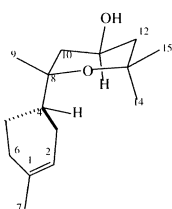
$[\alpha]_D^{25} +10.5$ (*c* 1.0, $CHCl_3$)

Source of chirality: α -methylbenzylamine and asymmetric synthesis

Absolute configuration (3*S*, α *R*,1'*R*)

Margarita B. Villecco, Luis R. Hernández, Marcelo I. Guzmán, César A. N. Catalán,* María A. Bucio and Pedro Joseph-Nathan

Tetrahedron: Asymmetry 12 (2001) 2947



(4*R*,8*S*,11*S*)-Deodarol

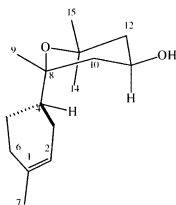
E.e. = 100%

$[\alpha]_D = +98.3$ (*c* 1.36, $CHCl_3$)

Absolute configuration: 4*R*,8*S*,11*S*

Margarita B. Villecco, Luis R. Hernández, Marcelo I. Guzmán, César A. N. Catalán,* María A. Bucio and Pedro Joseph-Nathan

Tetrahedron: Asymmetry 12 (2001) 2947



(4*R*,8*R*,11*R*)-Deodarol

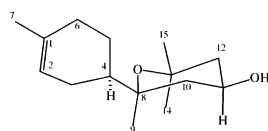
E.e. = 100%

$[\alpha]_D = +13.3$ (*c* 3.97, $CHCl_3$)

Absolute configuration: 4*R*,8*R*,11*R*

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Tetrahedron: Asymmetry 12 (2001) 2947



(4*R*,8*S*,11*R*)-Deodarol

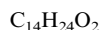
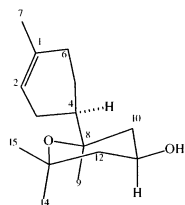
E.e. = 100%

$[\alpha]_D = +75.0$ (*c* 3.37, $CHCl_3$)

Absolute configuration: 4*R*,8*S*,11*R*

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César A. N. Catalán,* María A. Bucio and Pedro Joseph-Nathan

Tetrahedron: Asymmetry 12 (2001) 2947



(4*R*,8*R*,11*S*)-Deodarol

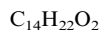
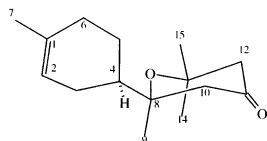
E.e. = 100%

$[\alpha]_D = +46.6$ (*c* 2.24, $CHCl_3$)

Absolute configuration: 4*R*,8*R*,11*S*

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César A. N. Catalán,* María A. Bucio and Pedro Joseph-Nathan

Tetrahedron: Asymmetry 12 (2001) 2947



(4*R*,8*S*)-Deodarone

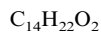
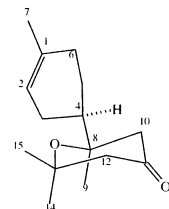
E.e. = 100%

$[\alpha]_D = +46.3$ (*c* 3.48, $CHCl_3$)

Absolute configuration: 4*R*,8*S*

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César A. N. Catalán,* María A. Bucio and Pedro Joseph-Nathan

Tetrahedron: Asymmetry 12 (2001) 2947



(4*R*,8*R*)-Deodarone

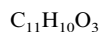
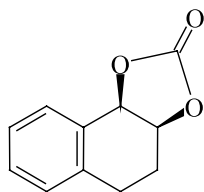
E.e. = 100%

$[\alpha]_D = +67.0$ (*c* 4.28, $CHCl_3$)

Absolute configuration: 4*R*,8*R*

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Tetrahedron: Asymmetry 12 (2001) 2961



(1*R*,2*S*)-1,2-Dihydroxy-1,2,3,4-tetrahydronaphthalene, cyclic carbonate

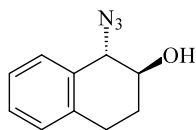
$[\alpha]_D = +206.4$ (*c* = 1.0, chloroform)

Source of chirality: (1*R*,2*S*)-1,2-dihydroxy-1,2,3,4-tetrahydronaphthalene

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

Fulvia Orsini,* Guido Sello and G. Bestetti

Tetrahedron: Asymmetry 12 (2001) 2961



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

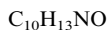
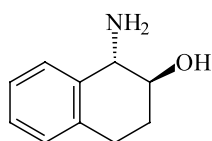
$[\alpha]_D = -18.6$ ($c = 0.89$ mg/mL, chloroform)

Source of chirality: (1*R*,2*S*)-1,2-dihydroxy-1,2,3,4-tetrahydronaphthalene

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

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Tetrahedron: Asymmetry 12 (2001) 2961



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

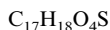
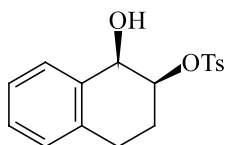
$[\alpha]_D = -85.4$ ($c = 0.634$ mg/mL, chloroform)

Source of chirality: (1*R*,2*S*)-1,2-dihydroxy-1,2,3,4-tetrahydronaphthalene

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

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Tetrahedron: Asymmetry 12 (2001) 2961



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

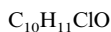
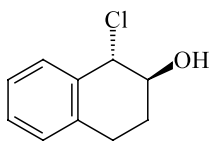
$[\alpha]_D = -30.5$ ($c = 1.98$, $CHCl_3$)

Source of chirality: (1*R*,2*S*)-1,2-dihydroxy-1,2,3,4-tetrahydronaphthalene

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

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Tetrahedron: Asymmetry 12 (2001) 2961



(1*S*,2*S*)-1-Chloro-2-hydroxy-1,2,3,4-tetrahydronaphthalene

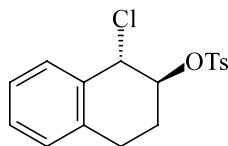
$[\alpha]_D = -39.0$ ($c = 0.7$, chloroform)

Source of chirality: (1*R*,2*S*)-1,2-dihydroxy-1,2,3,4-tetrahydronaphthalene

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

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Tetrahedron: Asymmetry 12 (2001) 2961



$C_{17}H_{17}ClO_3S$

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

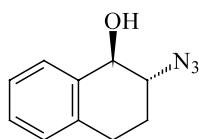
$[\alpha]_D = -4.0$ ($c = 1.98$, $CHCl_3$)

Source of chirality: (1*R*,2*S*)-1,2-dihydroxy-1,2,3,4-tetrahydronaphthalene

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

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Tetrahedron: Asymmetry 12 (2001) 2961



$C_{10}H_{11}N_3O$

(1*R*,2*R*)-1-Hydroxy-2-azido-1,2,3,4-tetrahydronaphthalene

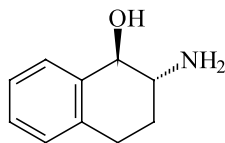
$[\alpha]_D = +40.8$ ($c = 0.7$, chloroform)

Source of chirality: (1*R*,2*S*)-1,2-dihydroxy-1,2,3,4-tetrahydronaphthalene

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

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Tetrahedron: Asymmetry 12 (2001) 2961



$C_{10}H_{13}NO$

(1*R*,2*R*)-1-Hydroxy-2-amino-1,2,3,4-tetrahydronaphthalene

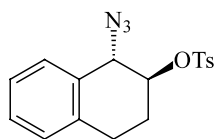
$[\alpha]_D = +75.36$ ($c = 0.26$, CH_3OH)

Source of chirality: (1*R*,2*S*)-1,2-dihydroxy-1,2,3,4-tetrahydronaphthalene

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

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Tetrahedron: Asymmetry 12 (2001) 2961



$C_{17}H_{17}N_3O_3S$

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

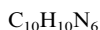
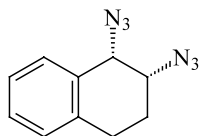
$[\alpha]_D = +18.1$ ($c = 1.19$, chloroform)

Source of chirality: (1*R*,2*S*)-1,2-dihydroxy-1,2,3,4-tetrahydronaphthalene

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

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Tetrahedron: Asymmetry 12 (2001) 2961



(1*S*,2*R*)-1,2-Diazido-1,2,3,4-tetrahydronaphthalene

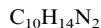
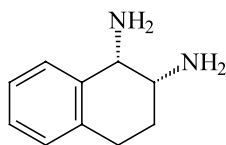
$[\alpha]_D = +122.1$ ($c = 1.5$, chloroform)

Source of chirality: (1*R*,2*S*)-1,2-dihydroxy-1,2,3,4-tetrahydronaphthalene

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

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Tetrahedron: Asymmetry 12 (2001) 2961



(1*S*,2*R*)-1,2-Diamino-1,2,3,4-tetrahydronaphthalene

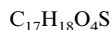
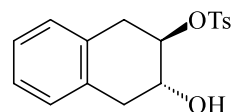
$[\alpha]_D = +33.47$ ($c = 0.49$, $CHCl_3$)

Source of chirality: (1*R*,2*S*)-1,2-dihydroxy-1,2,3,4-tetrahydronaphthalene

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

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Tetrahedron: Asymmetry 12 (2001) 2961



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

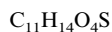
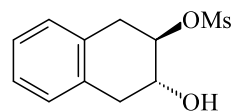
$[\alpha]_D = -90.5$ ($c = 1.2$, $CHCl_3$)

Source of chirality: (2*R*,3*R*)-1,2-dihydroxy-1,2,3,4-tetrahydronaphthalene

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

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Tetrahedron: Asymmetry 12 (2001) 2961



(2*R*,3*R*)-2-Methanesulphonyloxy-3-hydroxy-1,2,3,4-tetrahydronaphthalene

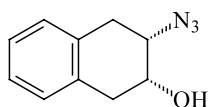
$[\alpha]_D = -98.8$ ($c = 0.7$, $CHCl_3$)

Source of chirality: (2*R*,3*R*)-2,3-dihydroxy-1,2,3,4-tetrahydronaphthalene

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

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Tetrahedron: Asymmetry 12 (2001) 2961



(2*S*,3*R*)-2-Hydroxy-3-azido-1,2,3,4-tetrahydronaphthalene

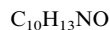
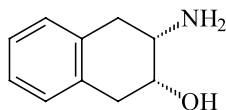
$[\alpha]_D = +46.4$ ($c = 0.42$, chloroform)

Source of chirality: (2*R*,3*R*)-2,3-dihydroxy-1,2,3,4-tetrahydronaphthalene

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

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Tetrahedron: Asymmetry 12 (2001) 2961



(2*S*,3*R*)-2-Hydroxy-3-amino-1,2,3,4-tetrahydronaphthalene

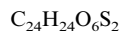
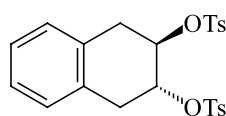
$[\alpha]_D = +10.06$ ($c = 0.74$, MeOH)

Source of chirality: (2*R*,3*R*)-2,3-dihydroxy-1,2,3,4-tetrahydronaphthalene

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

Fulvia Orsini,* Guido Sello and G. Bestetti

Tetrahedron: Asymmetry 12 (2001) 2961



(2*R*,3*R*)-2,3-Di-*p*-toluenesulphonyloxy-1,2,3,4-tetrahydronaphthalene

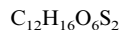
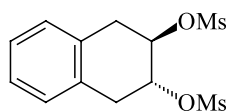
$[\alpha]_D = -42.5$ ($c = 1.1$, $CHCl_3$)

Source of chirality: (2*R*,3*R*)-2,3-dihydroxy-1,2,3,4-tetrahydronaphthalene

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

Fulvia Orsini,* Guido Sello and G. Bestetti

Tetrahedron: Asymmetry 12 (2001) 2961



(2*R*,3*R*)-2,3-D-Methanesulphonyloxy-1,2,3,4-tetrahydronaphthalene

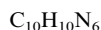
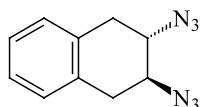
$[\alpha]_D = -76.6$ ($c = 0.38$, $CHCl_3$)

Source of chirality: (2*R*,3*R*)-2,3-dihydroxy-1,2,3,4-tetrahydronaphthalene

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

Fulvia Orsini,* Guido Sello and G. Bestetti

Tetrahedron: Asymmetry 12 (2001) 2961



(2*S*,3*S*)-2,3-Diazido-1,2,3,4-tetrahydronaphthalene

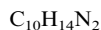
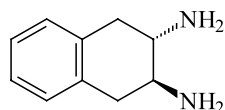
$[\alpha]_D = +52.5$ ($c = 0.28$, chloroform)

Source of chirality: (2*R*,3*R*)-2,3-dihydroxy-1,2,3,4-tetrahydronaphthalene

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

Fulvia Orsini,* Guido Sello and G. Bestetti

Tetrahedron: Asymmetry 12 (2001) 2961



(2*S*,3*S*)-2,3-Diamino-1,2,3,4-tetrahydronaphthalene

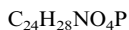
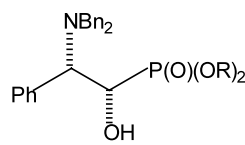
$[\alpha]_D = +53.4$ ($c = 7.53$ mg/mL, MeOH)

Source of chirality: (2*R*,3*R*)-2,3-dihydroxy-1,2,3,4-tetrahydronaphthalene

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

Andrzej E. Wróblewski* and Dorota G. Piotrowska

Tetrahedron: Asymmetry 12 (2001) 2977



Dimethyl 2-(*N,N*-dibenzylamino)-1-hydroxy-2-phenylethylphosphonate

R = Me:

E.e. = 100%

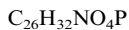
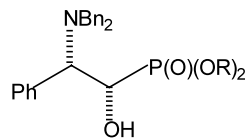
$[\alpha]_D = +73.5$ ($c = 0.95$, AcOEt)

Source of chirality: L-glycine

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

Andrzej E. Wróblewski* and Dorota G. Piotrowska

Tetrahedron: Asymmetry 12 (2001) 2977



Diethyl 2-(*N,N*-dibenzylamino)-1-hydroxy-2-phenylethylphosphonate

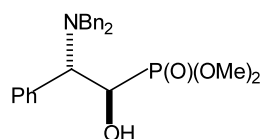
R = Et:

E.e. = 100%

$[\alpha]_D = +81.4$ ($c = 1.88$, AcOEt)

Source of chirality: L-glycine

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



Dimethyl 2-(*N,N*-dibenzylamino)-1-hydroxy-2-phenylethylphosphonate

E.e. = 100%

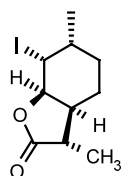
$[\alpha]_D^{20} = +73.8$ ($c = 2.0$, AcOEt)

Source of chirality: L-glycine

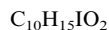
Absolute configuration: (1*R*,2*S*)

Subhash P. Chavan,* Rajendra K. Kharul, Anil K. Sharma and Sambhaji P. Chavan

Tetrahedron: Asymmetry 12 (2001) 2985



(-)-8a



[(3*S*,3*aS*,6*R*,7*R*,7*aR*)-(3*a*,4,5,6,7,7*a*)]-Hexahydro-3,6-dimethylbenzofuran-2(3*H*)-one

E.e. = 98.99%

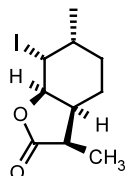
$[\alpha]_D^{20} = -37.3$

Source of chirality: diastereoselective synthesis

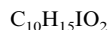
Absolute configuration: 3*S*,3*aS*,6*R*,7*R*,7*aR*

Subhash P. Chavan,* Rajendra K. Kharul, Anil K. Sharma and Sambhaji P. Chavan

Tetrahedron: Asymmetry 12 (2001) 2985



(+)-8b



[(3*R*,3*aS*,6*R*,7*R*,7*aR*)-(3*a*,4,5,6,7,7*a*)]-Hexahydro-3,6-dimethylbenzofuran-2(3*H*)-one, (+)-8b

E.e. = 99.06%

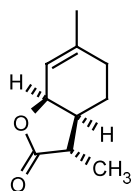
$[\alpha]_D^{20} = +21.6$ ($c = 3$, $CHCl_3$)

Source of chirality: diastereoselective synthesis

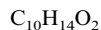
Absolute configuration: 3*R*,3*aS*,6*R*,7*R*,7*aR*

Subhash P. Chavan,* Rajendra K. Kharul, Anil K. Sharma and Sambhaji P. Chavan

Tetrahedron: Asymmetry 12 (2001) 2985



(-)-4a



(-)-[(3*S*,3*aS*,7*aR*)-3*a*,4,5,7*a*]-Tetrahydro-3,6-dimethylbenzofuran-2(3*H*)-one (wine lactone)

E.e. = 99.58%

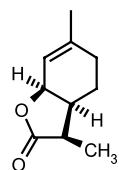
$[\alpha]_D^{20} = -13.5$ ($c = 3$, $CHCl_3$)

Source of chirality: diastereoselective synthesis

Absolute configuration: 3*S*,3*aS*,7*aR*

Subhash P. Chavan,* Rajendra K. Kharul, Anil K. Sharma and Sambhaji P. Chavan

Tetrahedron: Asymmetry 12 (2001) 2985



(+)-4b

$C_{10}H_{14}O_2$

(+)-[(3*R*,3*aS*,7*aR*)-3*a*,4,5,7*a*]-Tetrahydro-3,6-dimethylbenzofuran-2(3*H*)-one

E.e. = 99.86%

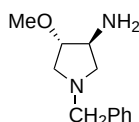
$[\alpha]_D^{20} = +112.15$ ($c = 3$, $CHCl_3$)

Source of chirality: diastereoselective synthesis

Absolute configuration: 3*R*,3*aS*,7*aR*

Yasunori Tsuzuki,* Katsumi Chiba, Kazuhiro Mizuno, Kyoji Tomita and Kenji Suzuki

Tetrahedron: Asymmetry 12 (2001) 2989



$C_{12}H_{18}N_2O$

(3*S*,4*S*)-3-Amino-1-benzyl-4-methoxypyrrolidine

E.e. >99% (by HPLC)

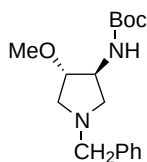
$[\alpha]_D^{27} = +32.2$ ($c = 1.05$, MeOH)

Source of chirality: resolution

Absolute configuration: 3*S*,4*S*

Yasunori Tsuzuki,* Katsumi Chiba, Kazuhiro Mizuno, Kyoji Tomita and Kenji Suzuki

Tetrahedron: Asymmetry 12 (2001) 2989



$C_{17}H_{26}N_2O_3$

(3*S*,4*S*)-1-Benzyl-3-(*N*-*tert*-butoxycarbonyl)amino-4-methoxypyrrolidine

E.e. >99%

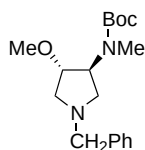
$[\alpha]_D^{29} = +9.5$ ($c = 1.04$, MeOH)

Source of chirality: resolution

Absolute configuration: 3*S*,4*S*

Yasunori Tsuzuki,* Katsumi Chiba, Kazuhiro Mizuno, Kyoji Tomita and Kenji Suzuki

Tetrahedron: Asymmetry 12 (2001) 2989



$C_{18}H_{28}N_2O_3$

(3*S*,4*S*)-1-Benzyl-3-(*N*-*tert*-butoxycarbonyl)methylamino-4-methoxypyrrolidine

E.e. >99%

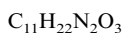
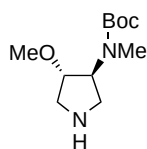
$[\alpha]_D^{29} = +9.9$ ($c = 1.00$, MeOH)

Source of chirality: resolution

Absolute configuration: 3*S*,4*S*

Yasunori Tsuzuki,* Katsumi Chiba, Kazuhiro Mizuno,
Kyoji Tomita and Kenji Suzuki

Tetrahedron: Asymmetry 12 (2001) 2989



(3*S*,4*S*)-3-(*N*-*tert*-Butoxycarbonyl)methylamino-4-methoxypyrrolidine

E.e. >99%

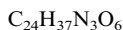
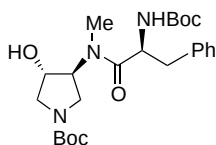
$[\alpha]_{\text{D}}^{29} = +12.5$ (*c* 1.05, MeOH)

Source of chirality: resolution

Absolute configuration: 3*S*,4*S*

Yasunori Tsuzuki,* Katsumi Chiba, Kazuhiro Mizuno,
Kyoji Tomita and Kenji Suzuki

Tetrahedron: Asymmetry 12 (2001) 2989



(3*S*,4*S*)-1-*tert*-Butoxycarbonyl-3-(*N*-*tert*-butoxycarbonyl-L-phenylalanyl)methylamino-4-hydroxy pyrrolidine

E.e. >99% (by HPLC)

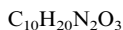
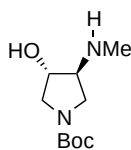
$[\alpha]_{\text{D}}^{25} = +52.0$ (*c* 0.15, MeOH)

Source of chirality: resolution

Absolute configuration: 3*S*,4*S*

Yasunori Tsuzuki,* Katsumi Chiba, Kazuhiro Mizuno,
Kyoji Tomita and Kenji Suzuki

Tetrahedron: Asymmetry 12 (2001) 2989



(3*S*,4*S*)-1-*tert*-Butoxycarbonyl-3-hydroxy-4-methylaminopyrrolidine

E.e. >99%

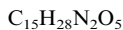
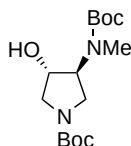
$[\alpha]_{\text{D}}^{26} = -8.7$ (*c* 1.00, MeOH)

Source of chirality: resolution

Absolute configuration: 3*S*,4*S*

Yasunori Tsuzuki,* Katsumi Chiba, Kazuhiro Mizuno,
Kyoji Tomita and Kenji Suzuki

Tetrahedron: Asymmetry 12 (2001) 2989



(3*S*,4*S*)-1-*tert*-Butoxycarbonyl-3-(*N*-*tert*-butoxycarbonyl)methylamino-4-hydroxypyrrolidine

E.e. >99%

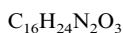
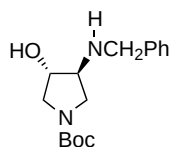
$[\alpha]_{\text{D}}^{25} = +21.7$ (*c* 0.60, MeOH)

Source of chirality: resolution

Absolute configuration: 3*S*,4*S*

Yasunori Tsuzuki,* Katsumi Chiba, Kazuhiro Mizuno,
Kyoji Tomita and Kenji Suzuki

Tetrahedron: Asymmetry 12 (2001) 2989



(3*S*,4*S*)-3-Benzylamino-1-*tert*-butoxycarbonyl-4-hydroxypyrrolidine

E.e. 100% (by HPLC)

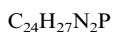
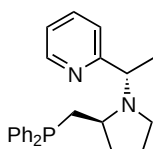
$[\alpha]_{\text{D}}^{29} = +18.0$ (*c* 0.50, MeOH)

Source of chirality: resolution

Absolute configuration: 3*S*,4*S*

Jun'ichi Uenishi* and Masahiro Hamada

Tetrahedron: Asymmetry 12 (2001) 2999



(2*S*)-2-(Diphenylphosphino)methyl-*N*-[(1*S*)-1-(2-pyridinyl)ethyl]pyrrolidine

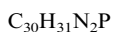
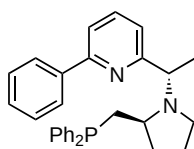
$[\alpha]_{\text{D}}^{24} = -175$ (*c* 2.1, CHCl₃)

Source of chirality: stereospecific substitution

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

Jun'ichi Uenishi* and Masahiro Hamada

Tetrahedron: Asymmetry 12 (2001) 2999



(2*S*)-2-(Diphenylphosphino)methyl-*N*-[(1*S*)-1-[2-(6-phenylpyridinyl)]ethyl]pyrrolidine

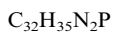
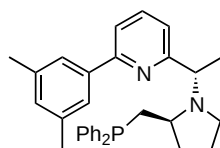
$[\alpha]_{\text{D}}^{24} = -178$ (*c* 2.0, CHCl₃)

Source of chirality: stereospecific substitution

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

Jun'ichi Uenishi* and Masahiro Hamada

Tetrahedron: Asymmetry 12 (2001) 2999



(2*S*)-*N*-[(1*S*)-1-[2-[6-(3,5-Dimethylphenyl)pyridinyl]]ethyl]-2-(diphenylphosphino)methylpyrrolidine

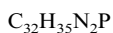
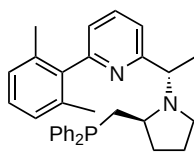
$[\alpha]_{\text{D}}^{24} = -153$ (*c* 0.9, CHCl₃)

Source of chirality: stereospecific substitution

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

Jun'ichi Uenishi* and Masahiro Hamada

Tetrahedron: Asymmetry 12 (2001) 2999



(2*S*)-*N*-[(1*S*)-1-[2-[6-(2,6-Dimethylphenyl)pyridinyl]]ethyl]-2-(diphenylphosphino)methylpyrrolidine

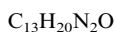
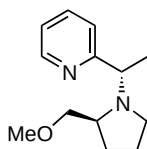
$[\alpha]_D^{24} = -156$ (*c* 1.9, $CHCl_3$)

Source of chirality: stereospecific substitution

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

Jun'ichi Uenishi* and Masahiro Hamada

Tetrahedron: Asymmetry 12 (2001) 2999



(2*S*)-2-Methoxymethyl-*N*-[(1*S*)-1-(2-pyridinyl)ethyl]pyrrolidine

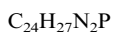
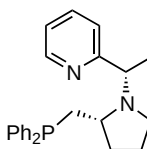
$[\alpha]_D^{25} = -85$ (*c* 1.3, $CHCl_3$)

Source of chirality: stereospecific substitution

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

Jun'ichi Uenishi* and Masahiro Hamada

Tetrahedron: Asymmetry 12 (2001) 2999



(2*R*)-2-(Diphenylphosphino)methyl-*N*-[(1*S*)-1-(2-pyridinyl)ethyl]pyrrolidine

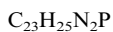
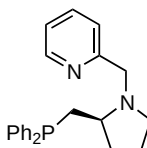
$[\alpha]_D^{26} = +66$ (*c* 1.3, $CHCl_3$)

Source of chirality: stereospecific substitution

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

Jun'ichi Uenishi* and Masahiro Hamada

Tetrahedron: Asymmetry 12 (2001) 2999



(*S*)-2-(Diphenylphosphino)methyl-*N*-(2-pyridinyl)methylpyrrolidine

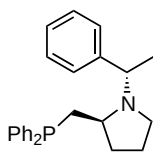
$[\alpha]_D^{24} = -115$ (*c* 1.65, $CHCl_3$)

Source of chirality: (*S*)-2-(diphenylphosphino)-methylpyrrolidine

Absolute configuration: (2*S*)

Jun'ichi Uenishi* and Masahiro Hamada

Tetrahedron: Asymmetry 12 (2001) 2999



$C_{25}H_{28}NP$

(2*S*)-2-(Diphenylphosphino)methyl-*N*-[(1*S*)-1-(phenyl)ethyl]pyrrolidine

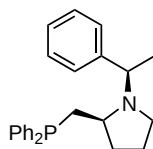
$[\alpha]_D^{25} = -173$ (*c* 0.9, $CHCl_3$)

Source of chirality: separation of diastereomers

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

Jun'ichi Uenishi* and Masahiro Hamada

Tetrahedron: Asymmetry 12 (2001) 2999



$C_{25}H_{28}NP$

(2*S*)-2-(Diphenylphosphino)methyl-*N*-[(1*R*)-1-(phenyl)ethyl]pyrrolidine

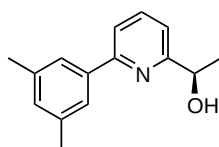
$[\alpha]_D^{25} = -81$ (*c* 0.8, $CHCl_3$)

Source of chirality: separation of diastereomers

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

Jun'ichi Uenishi* and Masahiro Hamada

Tetrahedron: Asymmetry 12 (2001) 2999



$C_{15}H_{17}NO$

(*R*)-1-[2-[6-(3,5-Dimethylphenyl)pyridinyl]]ethanol

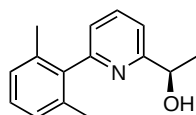
$[\alpha]_D^{24} = -21$ (*c* 2.2, $CHCl_3$)

Source of chirality: Suzuki coupling of
(*R*)-1-[2-(6-bromopyridinyl)]ethanol

Absolute configuration: (*R*)

Jun'ichi Uenishi* and Masahiro Hamada

Tetrahedron: Asymmetry 12 (2001) 2999



$C_{15}H_{17}NO$

(*R*)-1-[2-[6-(2,6-Dimethylphenyl)pyridinyl]]ethanol

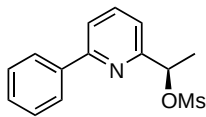
$[\alpha]_D^{24} = -5$ (*c* 0.9, $CHCl_3$)

Source of chirality: Suzuki coupling of
(*R*)-1-[2-(6-bromopyridinyl)]ethanol

Absolute configuration: (*R*)

Jun'ichi Uenishi* and Masahiro Hamada

Tetrahedron: Asymmetry 12 (2001) 2999



$C_{14}H_{15}NO_3S$

(*R*)-1-[2-(6-Phenylpyridinyl)]ethyl methanesulfonate

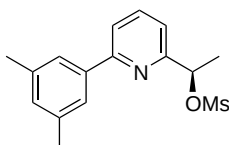
$[\alpha]_D^{24} = +62$ (*c* 1.8, $CHCl_3$)

Source of chirality: mesylation of
(*R*)-1-(2-pyridinyl)ethanol

Absolute configuration: (*R*)

Jun'ichi Uenishi* and Masahiro Hamada

Tetrahedron: Asymmetry 12 (2001) 2999



$C_{16}H_{19}NO_3S$

(*R*)-1-[2-[6-(3,5-Dimethylphenyl)]pyridinyl]]ethyl methanesulfonate

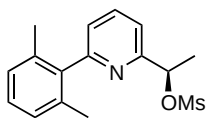
$[\alpha]_D^{24} = +25$ (*c* 1.9, $CHCl_3$)

Source of chirality: mesylation of
(*R*)-1-(2-pyridinyl)ethanol

Absolute configuration: (*R*)

Jun'ichi Uenishi* and Masahiro Hamada

Tetrahedron: Asymmetry 12 (2001) 2999



$C_{16}H_{19}NO_3S$

(*R*)-1-[2-[6-(2,6-Dimethylphenyl)]pyridinyl]]ethyl methanesulfonate

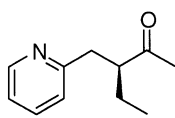
$[\alpha]_D^{25} = +53$ (*c* 1.1, $CHCl_3$)

Source of chirality: mesylation of
(*R*)-1-(2-pyridinyl)ethanol

Absolute configuration: (*R*)

Yasushi Kawai,* Motoko Hayashi and Norihiro Tokitoh

Tetrahedron: Asymmetry 12 (2001) 3007



$C_{11}H_{15}NO$

(*S*)-3-Methyl-(2-pyridylmethyl)-2-pentanone

E.e. >99% (by GLC analysis)

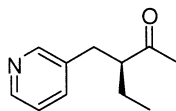
$[\alpha]_D^{24} +13.0$ (*c* 2.05, EtOH)

Source of chirality: microbial reduction

Absolute configuration: *S* (determined by X-ray
crystallographic analysis of its derivative)

Yasushi Kawai,* Motoko Hayashi and Norihiro Tokitoh

Tetrahedron: Asymmetry 12 (2001) 3007



$C_{11}H_{15}NO$

(*S*)-3-Methyl-(3-pyridylmethyl)-2-pentanone

E.e. 96% (by GLC analysis)

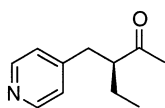
$[\alpha]_D^{23} +11.1$ (c 5.39, EtOH)

Source of chirality: microbial reduction

Absolute configuration: *S* (determined by X-ray crystallographic analysis of its derivative)

Yasushi Kawai,* Motoko Hayashi and Norihiro Tokitoh

Tetrahedron: Asymmetry 12 (2001) 3007



$C_{11}H_{15}NO$

(*S*)-3-Methyl-(4-pyridylmethyl)-2-pentanone

E.e. >99% (by GLC analysis)

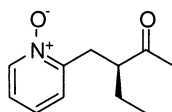
$[\alpha]_D^{23} +4.21$ (c 2.44, EtOH)

Source of chirality: microbial reduction

Absolute configuration: *S* (determined by X-ray crystallographic analysis of its derivative)

Yasushi Kawai,* Motoko Hayashi and Norihiro Tokitoh

Tetrahedron: Asymmetry 12 (2001) 3007



$C_{11}H_{15}NO_2$

(*S*)-3-(2-Pyridylmethyl)-2-pentanone *N*-oxide

E.e. >99% (by GLC analysis)

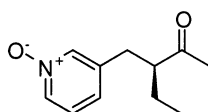
$[\alpha]_D^{23} +25.8$ (c 5.00, EtOH)

Source of chirality: microbial reduction

Absolute configuration: *S* (determined by X-ray crystallographic analysis of its derivative)

Yasushi Kawai,* Motoko Hayashi and Norihiro Tokitoh

Tetrahedron: Asymmetry 12 (2001) 3007



$C_{11}H_{15}NO_2$

(*S*)-3-(3-Pyridylmethyl)-2-pentanone *N*-oxide

E.e. 96% (by GLC analysis)

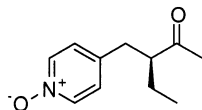
$[\alpha]_D^{23} -18.4$ (c 3.02, EtOH)

Source of chirality: microbial reduction

Absolute configuration: *S* (determined by X-ray crystallographic analysis of its derivative)

Yasushi Kawai,* Motoko Hayashi and Norihiro Tokitoh

Tetrahedron: Asymmetry 12 (2001) 3007



$C_{11}H_{15}NO_2$

(*S*)-3-(4-Pyridylmethyl)-2-pentanone *N*-oxide

E.e. >99% (by GLC analysis)

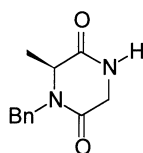
$[\alpha]_D^{24} -1.1$ (*c* 1.63, EtOH)

Source of chirality: microbial reduction

Absolute configuration: *S* (determined by X-ray crystallographic analysis of its derivative)

Félix L. Buenadicha, Carmen Avendaño* and Mónica Söllhuber

Tetrahedron: Asymmetry 12 (2001) 3019



$C_{12}H_{14}N_2O_2$

(6*S*)-1-Benzyl-6-methylpiperazine-2,5-dione

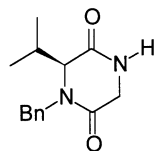
$[\alpha]_D^{25} = +30$ (*c* 0.26, $CHCl_3$)

Source of chirality: from (*S*)-valine

Absolute configuration: (6*S*)

Félix L. Buenadicha, Carmen Avendaño* and Mónica Söllhuber

Tetrahedron: Asymmetry 12 (2001) 3019



$C_{14}H_{18}N_2O_2$

(6*S*)-1-Benzyl-6-*iso*-propylpiperazine-2,5-dione

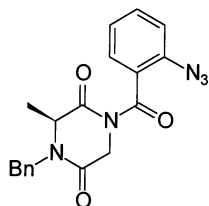
$[\alpha]_D^{25} = +12$ (*c* 0.25, $CHCl_3$)

Source of chirality: from (*S*)-valine

Absolute configuration: (6*S*)

Félix L. Buenadicha, Carmen Avendaño* and Mónica Söllhuber

Tetrahedron: Asymmetry 12 (2001) 3019



$C_{19}H_{17}N_3O_5$

(3*S*)-1-(*o*-Azidobenzoyl)-4-benzyl-3-methylpiperazine-2,5-dione

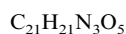
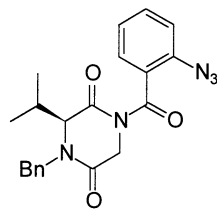
$[\alpha]_D^{25} = -78.8$ (*c* 0.27, $CHCl_3$)

Source of chirality: from (*S*)-valine

Absolute configuration: (3*S*)

Félix L. Buenadicha, Carmen Avendaño* and Mónica Söllhuber

Tetrahedron: Asymmetry 12 (2001) 3019



(3*S*)-1-(*o*-Azidobenzoyl)-4-benzyl-3-*iso*-propylpiperazine-2,5-dione

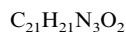
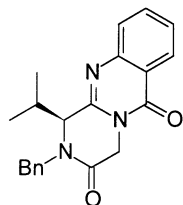
$[\alpha]_D^{25} = -108.3$ (*c* 0.26, $CHCl_3$)

Source of chirality: from (*S*)-valine

Absolute configuration: (3*S*)

Félix L. Buenadicha, Carmen Avendaño* and Mónica Söllhuber

Tetrahedron: Asymmetry 12 (2001) 3019



(1*S*)-2-Benzyl-1-*iso*-propyl-2,4-dihydro-1*H*-pyrazino[2,1-*b*]quinazoline-3,6-dione

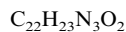
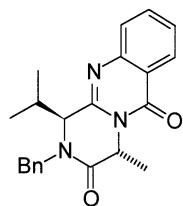
$[\alpha]_D^{25} = -82.5$ (*c* 0.27, $CHCl_3$)

Source of chirality: from (*S*)-valine

Absolute configuration: (1*S*)

Félix L. Buenadicha, Carmen Avendaño* and Mónica Söllhuber

Tetrahedron: Asymmetry 12 (2001) 3019



(1*S*,4*R*)-2-Benzyl-1-*iso*-propyl-4-methyl-2,4-dihydro-1*H*-pyrazino[2,1-*b*]quinazoline-3,6-dione

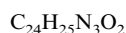
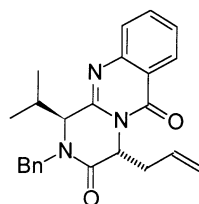
$[\alpha]_D^{25} = -122$ (*c* 0.19, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (1*S*,4*R*)

Félix L. Buenadicha, Carmen Avendaño* and Mónica Söllhuber

Tetrahedron: Asymmetry 12 (2001) 3019



(1*S*,4*R*)-4-Allyl-2-benzyl-1-*iso*-propyl-2,4-dihydro-1*H*-pyrazino[2,1-*b*]quinazoline-3,6-dione

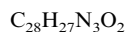
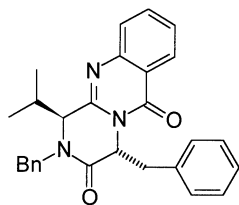
$[\alpha]_D^{25} = -220.4$ (*c* 0.24, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (1*S*,4*R*)

Félix L. Buenadicha, Carmen Avendaño* and Mónica Söllhuber

Tetrahedron: Asymmetry 12 (2001) 3019



(1*S*,4*R*)-2,4-Dibenzyl-1-*iso*-propyl-2,4-dihydro-1*H*-pyrazino[2,1-*b*]quinazoline-3,6-dione

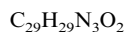
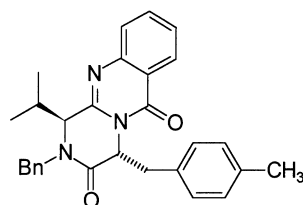
$[\alpha]_D^{25} = -357.6$ (*c* 0.25, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (1*S*,4*R*)

Félix L. Buenadicha, Carmen Avendaño* and Mónica Söllhuber

Tetrahedron: Asymmetry 12 (2001) 3019



(1*S*,4*R*)-2-Benzyl-1-*iso*-propyl-4-*p*-methylbenzyl-2,4-dihydro-1*H*-pyrazino[2,1-*b*]quinazoline-3,6-dione

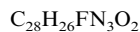
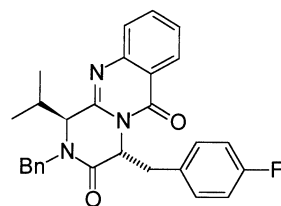
$[\alpha]_D^{25} = -389.6$ (*c* 0.28, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (1*S*,4*R*)

Félix L. Buenadicha, Carmen Avendaño* and Mónica Söllhuber

Tetrahedron: Asymmetry 12 (2001) 3019



(1*S*,4*R*)-2-Benzyl-4-*p*-fluorobenzyl-1-*iso*-propyl-2,4-dihydro-1*H*-pyrazino[2,1-*b*]quinazoline-3,6-dione

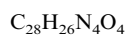
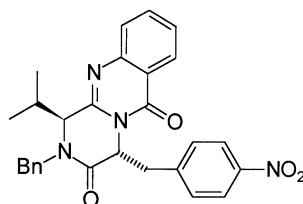
$[\alpha]_D^{25} = -378$ (*c* 0.27, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (1*S*,4*R*)

Félix L. Buenadicha, Carmen Avendaño* and Mónica Söllhuber

Tetrahedron: Asymmetry 12 (2001) 3019



(1*S*,4*R*)-2-Benzyl-1-*iso*-propyl-4-*p*-nitrobenzyl-2,4-dihydro-1*H*-pyrazino[2,1-*b*]quinazoline-3,6-dione

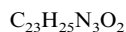
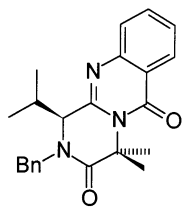
$[\alpha]_D^{25} = -322.5$ (*c* 0.28, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (1*S*,4*R*)

Félix L. Buenadicha, Carmen Avendaño* and Mónica Söllhuber

Tetrahedron: Asymmetry 12 (2001) 3019



(1*S*)-4-Allyl-2-benzyl-1-*iso*-propyl-2,4-dihydro-1*H*-pyrazino[2,1-*b*]quinazoline-3,6-dione

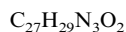
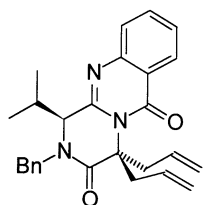
$[\alpha]_D^{25} = -63$ (*c* 0.26, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (1*S*)

Félix L. Buenadicha, Carmen Avendaño* and Mónica Söllhuber

Tetrahedron: Asymmetry 12 (2001) 3019



(1*S*)-2-Benzyl-4,4-diallyl-1-*iso*-propyl-2,4-dihydro-1*H*-pyrazino[2,1-*b*]quinazoline-3,6-dione

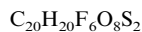
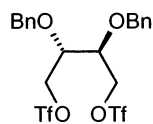
$[\alpha]_D^{25} = -80$ (*c* 0.25, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (1*S*,4*R*)

Leticia Flores-Santos, Erika Martin,* Montserrat Diéguez,*
Anna M. Masdeu-Bultó and Carmen Claver

Tetrahedron: Asymmetry 12 (2001) 3029



(2*R*,3*R*)-2,3-Bis(benzyloxy)butane-1,4-bis(trifluoromethanesulfonate)

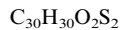
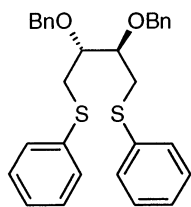
$[\alpha]_D^{25} = +7.4$ (*c* 0.96, $CHCl_3$)

Source of chirality: L-(+)-tartaric acid

Absolute configuration: *R,R*

Leticia Flores-Santos, Erika Martin,* Montserrat Diéguez,*
Anna M. Masdeu-Bultó and Carmen Claver

Tetrahedron: Asymmetry 12 (2001) 3029



(2*R*,3*R*)-2,3-Bis(benzyloxy)-1,4-dithiophenylbutane

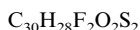
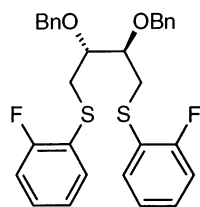
$[\alpha]_D^{20} = +31.2$ (*c* 0.75, $CHCl_3$)

Source of chirality: L-(+)-tartaric acid

Absolute configuration: *R,R*

Leticia Flores-Santos, Erika Martin,* Montserrat Diéguez,*
Anna M. Masdeu-Bultó and Carmen Claver

Tetrahedron: Asymmetry 12 (2001) 3029



(2*R*,3*R*)-2,3-Bis(benzyloxy)-1,4-bis(thio-*o*-fluorophenyl)butane

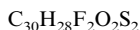
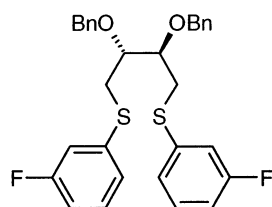
$[\alpha]_D^{20} = +26.9$ (*c* 0.77, $CHCl_3$)

Source of chirality: L-(+)-tartaric acid

Absolute configuration: *R,R*

Leticia Flores-Santos, Erika Martin,* Montserrat Diéguez,*
Anna M. Masdeu-Bultó and Carmen Claver

Tetrahedron: Asymmetry 12 (2001) 3029



(2*R*,3*R*)-2,3-Bis(benzyloxy)-1,4-bis(thio-*m*-fluorophenyl)butane

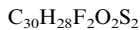
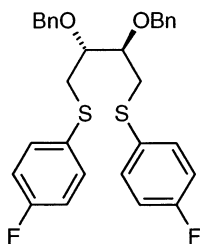
$[\alpha]_D^{20} = +24.9$ (*c* 0.85, $CHCl_3$)

Source of chirality: L-(+)-tartaric acid

Absolute configuration: *R,R*

Leticia Flores-Santos, Erika Martin,* Montserrat Diéguez,*
Anna M. Masdeu-Bultó and Carmen Claver

Tetrahedron: Asymmetry 12 (2001) 3029



(2*R*,3*R*)-2,3-Bis(benzyloxy)-1,4-bis(thio-*p*-fluorophenyl)butane

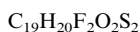
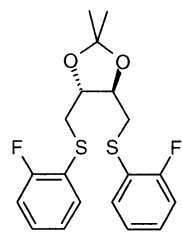
$[\alpha]_D^{20} = +33.0$ (*c* 0.746, $CHCl_3$)

Source of chirality: L-(+)-tartaric acid

Absolute configuration: *R,R*

Leticia Flores-Santos, Erika Martin,* Montserrat Diéguez,*
Anna M. Masdeu-Bultó and Carmen Claver

Tetrahedron: Asymmetry 12 (2001) 3029



(2*R*,3*R*)-2,3-*O*-Isopropylidene-1,4-bis(thio-*o*-fluorophenyl)butane

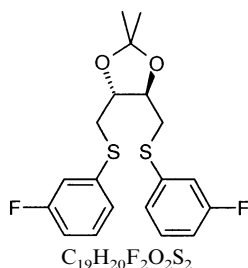
$[\alpha]_D^{25} = +35.8$ (*c* 0.75, $CHCl_3$)

Source of chirality: L-(+)-tartaric acid

Absolute configuration: *R,R*

Leticia Flores-Santos, Erika Martin,* Montserrat Diéguez,*
Anna M. Masdeu-Bultó and Carmen Claver

Tetrahedron: Asymmetry 12 (2001) 3029

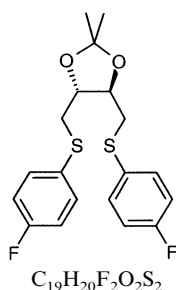


(2*R*,3*R*)-2,3-*O*-Isopropylidene-1,4-bis(thio-*m*-fluorophenyl)butane

$[\alpha]_D^{25} = +38.7$ (*c* 0.77, $CHCl_3$)
Source of chirality: L-(+)-tartaric acid
Absolute configuration: *R,R*

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Tetrahedron: Asymmetry 12 (2001) 3029

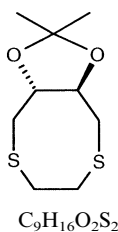


(2*R*,3*R*)-2,3-*O*-Isopropylidene-1,4-bis(thio-*p*-fluorophenyl)butane

$[\alpha]_D^{25} = +30.6$ (*c* 0.83, $CHCl_3$)
Source of chirality: L-(+)-tartaric acid
Absolute configuration: *R,R*

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Anna M. Masdeu-Bultó and Carmen Claver

Tetrahedron: Asymmetry 12 (2001) 3029

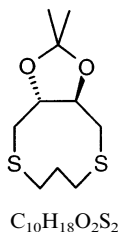


(6*R*,7*R*)-6,7-*O*-Isopropylidene-1,4-dithiacyclooctane

$[\alpha]_D^{25} = +95.8$ (*c* 0.79, $CHCl_3$)
Source of chirality: L-(+)-tartaric acid
Absolute configuration: *R,R*

Leticia Flores-Santos, Erika Martin,* Montserrat Diéguez,*
Anna M. Masdeu-Bultó and Carmen Claver

Tetrahedron: Asymmetry 12 (2001) 3029

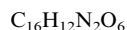
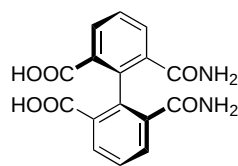


(6*R*,7*R*)-6,7-*O*-Isopropylidene-1,4-dithiacyclononane

$[\alpha]_D^{25} = +54.8$ (*c* 0.825, $CHCl_3$)
Source of chirality: L-(+)-tartaric acid
Absolute configuration: *R,R*

Petr Holý, Jiří Závada,* Ivana Císařová and Jaroslav Podlaha

Tetrahedron: Asymmetry 12 (2001) 3035



(S)-6,6'-Dicarbamoyl-1,1'-biphenyl-2,2'-dicarboxylic acid

E.e. = 100%

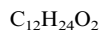
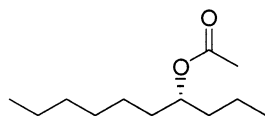
$[\alpha]_D^{20} = -32.8$ (c 0.25, 50% aq. MeOH)

Source of chirality: (S)-(-)-1-phenylethanol

Absolute configuration: (S), determined by correlation with X-ray analysis of the source compound (S)-biphenyl-2,2',6,6'-tetracarboxylic acid 6,6'-bis[(S)-1-phenylethyl] ester

Eduardo García-Urdiales, Francisca Rebolledo and Vicente Gotor*

Tetrahedron: Asymmetry 12 (2001) 3047



(R)-Decan-4-yl acetate

E.e. = 74%

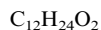
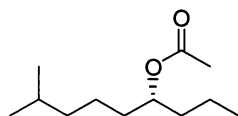
$[\alpha]_D^{22} = +4.7$ (c 0.82, $CHCl_3$)

Source of chirality: enzymatic resolution

Absolute configuration: (R)

Eduardo García-Urdiales, Francisca Rebolledo and Vicente Gotor*

Tetrahedron: Asymmetry 12 (2001) 3047



(R)-2-Methylnonan-6-yl acetate

E.e. = 73%

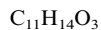
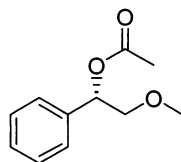
$[\alpha]_D^{21} = +5.9$ (c 1.07, $CHCl_3$)

Source of chirality: enzymatic resolution

Absolute configuration: (R)

Eduardo García-Urdiales, Francisca Rebolledo and Vicente Gotor*

Tetrahedron: Asymmetry 12 (2001) 3047



(S)-1-Phenyl-2-methoxyethyl acetate

E.e. = 95%

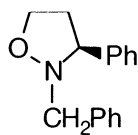
$[\alpha]_D^{22} = +84.2$ (c 1.19, $CHCl_3$)

Source of chirality: enzymatic resolution

Absolute configuration: (S)

Marcello Tiecco,* Lorenzo Testaferri, Francesca Marini,
Silvia Sternativo, Claudio Santi, Luana Bagnoli and Andrea Temperini

Tetrahedron: Asymmetry 12 (2001) 3053



$C_{16}H_{17}NO$

(3*S*)-2-Benzyl-3-phenylisoxazolidine

E.e. = 86% (by 1H NMR using (*S*)-(+)-2,2,2-trifluoro-1-(9-anthryl) ethanol)

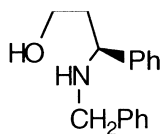
$[\alpha]_D^{25} = -95.9$ ($c = 0.91$, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: *S*

Marcello Tiecco,* Lorenzo Testaferri, Francesca Marini,
Silvia Sternativo, Claudio Santi, Luana Bagnoli and Andrea Temperini

Tetrahedron: Asymmetry 12 (2001) 3053



$C_{16}H_{19}NO$

(3*S*)-3-(Benzylamino)-3-phenylpropan-1-ol

E.e. = 86% (by 1H NMR using (*S*)-(+)-2,2,2-trifluoro-1-(9-anthryl) ethanol)

$[\alpha]_D^{18} = -28.7$ ($c = 1$, MeOH)

Source of chirality: asymmetric synthesis

Absolute configuration: *S*