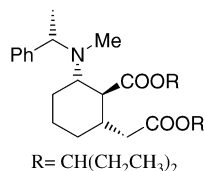


Stereochemistry abstracts

Narciso M. Garrido,* David Díez, Sara H. Domínguez, Mercedes García,
M. Rosa Sánchez and Stephen G. Davies

Tetrahedron: Asymmetry 17 (2006) 2183



C₂₈H₄₅O₄N

Pent-3-yl (1*S*,2*S*,6*S*, α *S*)-2-(*N*-methyl-*N*- α -methylbenzylamino)-6-(pent-3-yloxycarbonylmethyl)-cyclohexanecarboxylate

Ee, de: >95% (NMR)

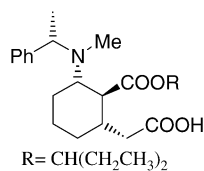
$[\alpha]_D^{20} = -2.5$ (*c* 1.4, CHCl₃)

Source of chirality: asymmetric synthesis

Absolute configuration: 1*S*,2*S*,6*S*, α *S*

Narciso M. Garrido,* David Díez, Sara H. Domínguez, Mercedes García,
M. Rosa Sánchez and Stephen G. Davies

Tetrahedron: Asymmetry 17 (2006) 2183



C₂₃H₃₅O₄N

(1*S*,2*S*,3*S*, α *S*)-2-[(2-Pent-3-yloxycarbonyl-3-*N*-methyl-*N*- α -methylbenzylamino) cyclohexyl]acetic acid

Ee, de: >95% (NMR)

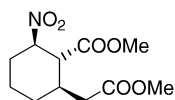
$[\alpha]_D^{20} = -2.8$ (*c* 2.0, CHCl₃)

Source of chirality: asymmetric synthesis

Absolute configuration: 1*S*,2*S*,3*S*, α *S*

Narciso M. Garrido,* David Díez, Sara H. Domínguez, Mercedes García,
M. Rosa Sánchez and Stephen G. Davies

Tetrahedron: Asymmetry 17 (2006) 2183



C₁₁H₁₇O₆N

Methyl (1*R*,2*R*,6*R*)-6-methoxycarbonylmethyl-2-nitrocyclohexanecarboxylate

Ee, de: >95% (NMR)

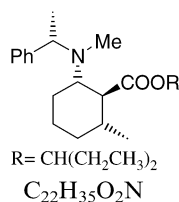
$[\alpha]_D^{20} = +2.9$ (*c* 0.8, CHCl₃)

Source of chirality: asymmetric synthesis

Absolute configuration: 1*R*,2*R*,6*R*

Narciso M. Garrido,* David Díez, Sara H. Domínguez, Mercedes García,
M. Rosa Sánchez and Stephen G. Davies

Tetrahedron: Asymmetry 17 (2006) 2183



C₂₂H₃₅O₂N

Pent-3-yl (1*S*,2*S*,6*S*, α *S*)-6-methyl-2-(*N*-methyl-*N*- α -methylbenzylamino) cyclohexanecarboxylate

Ee, de: >95% (NMR)

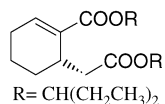
$[\alpha]_D^{20} = -6.2$ (*c* 0.7, CHCl₃)

Source of chirality: asymmetric synthesis

Absolute configuration: 1*S*,2*S*,6*S*, α *S*

Narciso M. Garrido,* David Díez, Sara H. Domínguez, Mercedes García,
M. Rosa Sánchez and Stephen G. Davies

Tetrahedron: Asymmetry 17 (2006) 2183



C₁₉H₃₂O₄

Pent-3-yl (*S*)-6-pent-3-yloxy carbonylmethyl cyclohex-1-enecarboxylate

Ee: >95% (NMR)

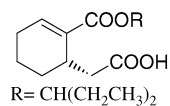
[α]_D²⁰ = +18.1 (*c* 0.6, CHCl₃)

Source of chirality: asymmetric synthesis

Absolute configuration: *S*

Narciso M. Garrido,* David Díez, Sara H. Domínguez, Mercedes García,
M. Rosa Sánchez and Stephen G. Davies

Tetrahedron: Asymmetry 17 (2006) 2183



C₁₄H₂₂O₄

(*S*)-2-(2-pent-3-yloxy carbonyl cyclohex-2-enyl)acetic acid

Ee: >95% (NMR)

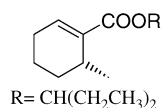
[α]_D²⁰ = +23.9 (*c* 1.2, CHCl₃)

Source of chirality: asymmetric synthesis

Absolute configuration: *S*

Narciso M. Garrido,* David Díez, Sara H. Domínguez, Mercedes García,
M. Rosa Sánchez and Stephen G. Davies

Tetrahedron: Asymmetry 17 (2006) 2183



C₁₃H₂₂O₂

Pent-3-yl (*R*)-6-methyl-cyclohex-1-ene carboxylate

Ee: >95% (NMR)

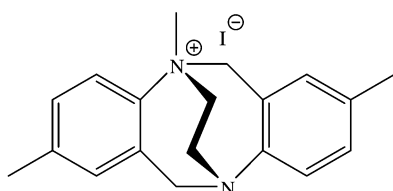
[α]_D²⁰ = +46.0 (*c* 0.5, CHCl₃)

Source of chirality: asymmetric synthesis

Absolute configuration: *R*

Denis A. Lenev,* Denis G. Golovanov, Konstantin A. Lyssenko
and Remir G. Kostyanovsky

Tetrahedron: Asymmetry 17 (2006) 2191



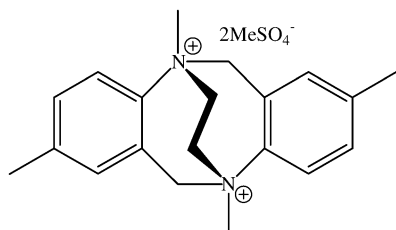
(*5R,11R*)-(+)-2,5,8-trimethyl-6*H*,12*H*-5,11-(1,2-ethano)dibenzo[*b,f*][1,5]diazocinium iodide

[α] (*λ*, nm, *c* 2, CH₂Cl₂) = −41 (578); −47 (546); −100 (436); −113 (406)

Absolute configuration was determined by X-ray diffraction analysis

Denis A. Lenev,* Denis G. Golovanov, Konstantin A. Lyssenko
and Remir G. Kostyanovsky

Tetrahedron: Asymmetry 17 (2006) 2191



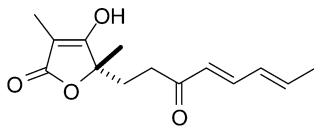
$[\alpha] (\lambda, \text{nm}, c 2, \text{H}_2\text{O}) = -2 (578); -3 (546); -8 (436); -10 (406)$

Absolute configuration was determined by chemical correlation

(5*R*,11*R*)-(+)-2,5,8,11-Tetramethyl-6*H*,12*H*-5,11-(1,2-ethano)dibenzo[*b,f*][1,5]diazocinium methylsulfate

Tetsuo Tauchi, Hiroki Sakuma, Takahiro Ohno, Nobuyuki Mase,
Hidemi Yoda and Kunihiko Takabe*

Tetrahedron: Asymmetry 17 (2006) 2195



$\text{C}_{14}\text{H}_{18}\text{O}_4$

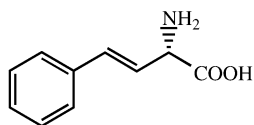
(*S*)-4-Hydroxy-3,5-dimethyl-5-((4*E*,6*E*)-3-oxoocta-4,6-dienyl)furan-2(5*H*)-one

$E_e = 94\%$

$[\alpha]_{\text{D}}^{26} = -25.8 (c 0.05, \text{CHCl}_3)$

Nitin W. Fadnavis, Su-Hyun Seo, Joo-Hyun Seo and Byung-Gee Kim*

Tetrahedron: Asymmetry 17 (2006) 2199



$\text{C}_{10}\text{H}_{11}\text{NO}_2$

(3*E*,2*S*)-2-Amino-4-phenyl-3-butenoic acid

$E_e > 99\%$

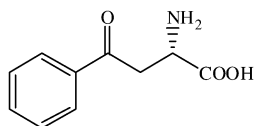
$[\alpha]_{\text{D}}^{25} = +38.4 (c 1, 0.1 \text{ N HCl})$

Source of chirality: enzymatic asymmetric transamination

Absolute configuration: (*S*)

Nitin W. Fadnavis, Su-Hyun Seo, Joo-Hyun Seo and Byung-Gee Kim*

Tetrahedron: Asymmetry 17 (2006) 2199



$\text{C}_{10}\text{H}_{11}\text{NO}_3$

(2*S*)-2-Amino-4-oxo-4-phenylbutyric acid

$E_e > 99\%$

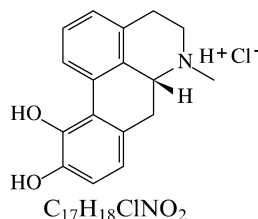
$[\alpha]_{\text{D}}^{25} = +40.5 (c 0.1, 6 \text{ M HCl})$

Source of chirality: enzymatic asymmetric transamination

Absolute configuration: (*S*)

Xiao-Xin Shi,* Feng Ni, Hai-Xia Shang, Ming-Le Yan and Jun-Quan Su

Tetrahedron: Asymmetry 17 (2006) 2210



$C_{17}H_{18}ClNO_2$
(*R*)-(-)-Apomorphine hydrochloride

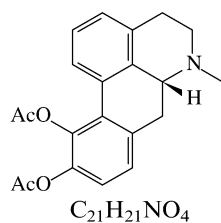
$[\alpha]_D^{20} = -48.1$ (*c* 1.0, water)

Source of chirality: (-)-tartaric acid

Absolute configuration: (*R*)

Xiao-Xin Shi,* Feng Ni, Hai-Xia Shang, Ming-Le Yan and Jun-Quan Su

Tetrahedron: Asymmetry 17 (2006) 2210



$C_{21}H_{21}NO_4$
(*R*)-(-)-10,11-Diaetoxyaporphine

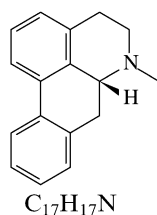
$[\alpha]_D^{20} = -137.1$ (*c* 0.3, methanol)

Source of chirality: (-)-tartaric acid

Absolute configuration: (*R*)

Xiao-Xin Shi,* Feng Ni, Hai-Xia Shang, Ming-Le Yan and Jun-Quan Su

Tetrahedron: Asymmetry 17 (2006) 2210



$C_{17}H_{17}N$
(*R*)-(-)-Aporphine

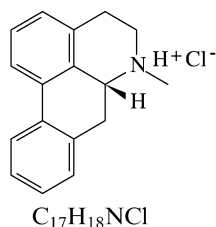
$[\alpha]_D^{20} = -151.6$ (*c* 0.6, methanol)

Source of chirality: (-)-tartaric acid

Absolute configuration: (*R*)

Xiao-Xin Shi,* Feng Ni, Hai-Xia Shang, Ming-Le Yan and Jun-Quan Su

Tetrahedron: Asymmetry 17 (2006) 2210



$C_{17}H_{18}NCl$
(*R*)-(-)-Aporphine hydrochloride

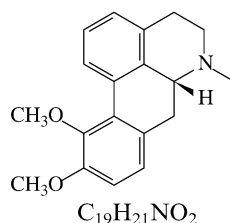
$[\alpha]_D^{20} = -106.6$ (*c* 0.3, methanol)

Source of chirality: (-)-tartaric acid

Absolute configuration: (*R*)

Xiao-Xin Shi,* Feng Ni, Hai-Xia Shang, Ming-Le Yan and Jun-Quan Su

Tetrahedron: Asymmetry 17 (2006) 2210



(*R*)-(-)-10,11-Dimethoxyaporphine

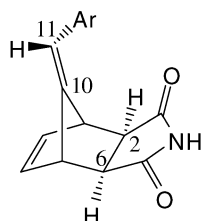
$[\alpha]_D^{20} = -172.3$ (*c* 1.4, methanol)

Source of chirality: (-)-tartaric acid

Absolute configuration: (*R*)

Sosale Chandrasekhar* and Suresh Kumar Gorla

Tetrahedron: Asymmetry 17 (2006) 2247



((10-11)*E*,2*R*,6*S*)-10-((4-Methylphenyl)methylene)-4-azatricyclo(5.2.1.0^{2,6})-dec-8-ene-3,5-dione

Ee >95%

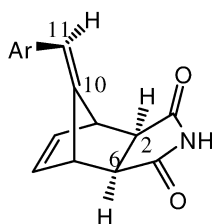
$[\alpha]_D^{25} = +59.8$ (*c* 1.9, CHCl₃)

Source of chirality: resolution (triage)

Absolute configuration: (10-11)*E*,2*R*,6*S*

Sosale Chandrasekhar* and Suresh Kumar Gorla

Tetrahedron: Asymmetry 17 (2006) 2247



((10-11)*Z*,2*R*,6*S*)-10-((4-Methylphenyl)methylene)-4-azatricyclo(5.2.1.0^{2,6})-dec-8-ene-3,5-dione

Ee >95%

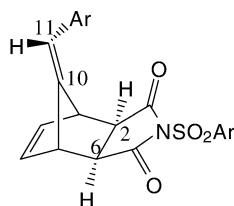
$[\alpha]_D^{25} = -57.5$ (*c* 1.9, CHCl₃)

Source of chirality: resolution (triage)

Absolute configuration: (10-11)*Z*,2*R*,6*S*

Sosale Chandrasekhar* and Suresh Kumar Gorla

Tetrahedron: Asymmetry 17 (2006) 2247



((10-11)*E*,2*R*,6*S*)-4-(*p*-Toluenesulfonyl)-10-((4-methylphenyl)methylene)-4-azatricyclo(5.2.1.0^{2,6})-dec-8-ene-3,5-dione

Ee >95%

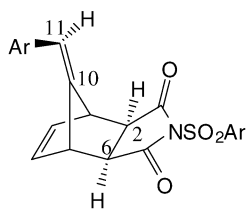
$[\alpha]_D^{25} = +136.9$ (*c* 1.3, CHCl₃)

Source of chirality: resolution (triage)

Absolute configuration: (10-11)*E*,2*R*,6*S*

Sosale Chandrasekhar* and Suresh Kumar Gorla

Tetrahedron: Asymmetry 17 (2006) 2247



(Ar = 4-methylphenyl)

((10-11)Z,2R,6S)-4-(*p*-Toluenesulfonyl)-10-((4-methylphenyl)methylene)-4-azatricyclo(5.2.1.0^{2,6})-dec-8-ene-3,5-dione

Ee >95%

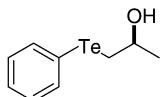
$[\alpha]_D^{25} = -120.0$ (*c* 2.0, CHCl₃)

Source of chirality: resolution (triage)

Absolute configuration: (10-11)Z,2R,6S

Alcindo A. Dos Santos,* Carlos E. Da Costa, Jefferson L. Princival
and João V. Comasseto

Tetrahedron: Asymmetry 17 (2006) 2252



C₉H₁₂OTe

(S)-1-(Phenyltellanyl)-2-propanol

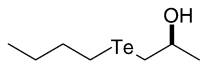
Ee >99%

$[\alpha]_D^{28} = +5$ (*c* 1.0, CH₂Cl₂)

Absolute configuration: S

Alcindo A. Dos Santos,* Carlos E. Da Costa, Jefferson L. Princival
and João V. Comasseto

Tetrahedron: Asymmetry 17 (2006) 2252



C₇H₁₆OTe

(S)-1-(*n*-Butyltellanyl)-2-propanol

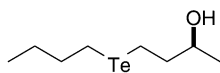
Ee >99%

$[\alpha]_D^{23} = +33$ (*c* 1.0, CH₂Cl₂)

Absolute configuration: S

Alcindo A. Dos Santos,* Carlos E. Da Costa, Jefferson L. Princival
and João V. Comasseto

Tetrahedron: Asymmetry 17 (2006) 2252



C₈H₁₈OTe

(S)-1-(*n*-Butyltellanyl)-3-butanol

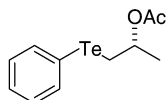
Ee = 99%

$[\alpha]_D^{22} = +7$ (*c* 1.0, CH₂Cl₂)

Absolute configuration: S

Alcindo A. Dos Santos,* Carlos E. Da Costa, Jefferson L. Princival
and João V. Comasseto

Tetrahedron: Asymmetry 17 (2006) 2252



$C_{11}H_{14}O_2Te$

(*R*)-*O*-Acetyl-1-(phenyltellanyl)-2-propanol

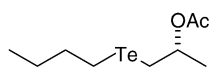
Ee >99%

$[\alpha]_D^{22} = -6$ (*c* 1.0, CH_2Cl_2)

Absolute configuration: *R*

Alcindo A. Dos Santos,* Carlos E. Da Costa, Jefferson L. Princival
and João V. Comasseto

Tetrahedron: Asymmetry 17 (2006) 2252



$C_9H_{18}O_2Te$

(*R*)-*O*-Acetyl-1-(*n*-butyltellanyl)-2-propanol

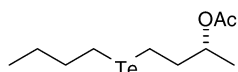
Ee = 98%

$[\alpha]_D^{22} = +4$ (*c* 1.0, CH_2Cl_2)

Absolute configuration: *R*

Alcindo A. Dos Santos,* Carlos E. Da Costa, Jefferson L. Princival
and João V. Comasseto

Tetrahedron: Asymmetry 17 (2006) 2252



$C_{10}H_{20}O_2Te$

(*R*)-*O*-Acetyl-1-(*n*-butyltellanyl)-3-butanol

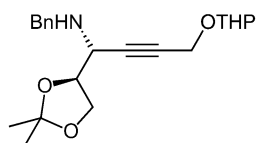
Ee = 98%

$[\alpha]_D^{22} = +18$ (*c* 1.0, CH_2Cl_2)

Absolute configuration: *R*

David Díez,* Ana B. Antón, Pilar García, Marta G. Nuñez,
Narciso M. Garrido, Rosalina F. Moro, Isidro S. Marcos,
Pilar Basabe and Julio G. Urones

Tetrahedron: Asymmetry 17 (2006) 2260



$C_{21}H_{29}NO_4$

Tetrahydropyranyl derivative of (*R*)-4-(benzylamino)-4-((*S*)-2',2'-dimethyl-1',3'-dioxolan-4'-yl)but-2-yn-1-ol

Ee, de: >95% (NMR)

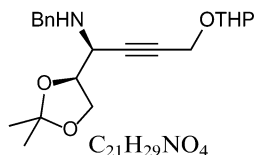
$[\alpha]_D^{20} = +16.3$ (*c* 0.90, $CHCl_3$)

Source of chirality: asymmetric synthesis

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

David Díez,* Ana B. Antón, Pilar García, Marta G. Nuñez,
Narciso M. Garrido, Rosalina F. Moro, Isidro S. Marcos,
Pilar Basabe and Julio G. Urones

Tetrahedron: Asymmetry 17 (2006) 2260

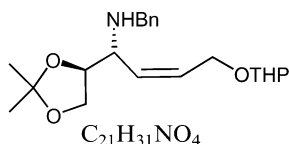


Tetrahydropyranyl derivative of (*S*)-4-(benzylamino)-4-((*S*)-2',2'-dimethyl-1',3'-dioxolan-4'-yl)but-2-yn-1-ol

Ee, de: >95% (NMR)
 $[\alpha]_D^{20} = -59.0$ (*c* 1.25, CHCl₃)
Source of chirality: asymmetric synthesis
Absolute configuration: 4*S*,4'*S*

David Díez,* Ana B. Antón, Pilar García, Marta G. Nuñez,
Narciso M. Garrido, Rosalina F. Moro, Isidro S. Marcos,
Pilar Basabe and Julio G. Urones

Tetrahedron: Asymmetry 17 (2006) 2260

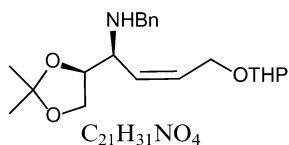


Tetrahydropyranyl derivative of (*R,Z*)-4-(benzylamino)-4-((*S*)-2',2'-dimethyl-1',3'-dioxolan-4'-yl)but-2-en-1-ol

Ee, de: >95% (NMR)
 $[\alpha]_D^{20} = +6.4$ (*c* 1.38, CHCl₃)
Source of chirality: asymmetric synthesis
Absolute configuration: 4*R*,4'*S*

David Díez,* Ana B. Antón, Pilar García, Marta G. Nuñez,
Narciso M. Garrido, Rosalina F. Moro, Isidro S. Marcos,
Pilar Basabe and Julio G. Urones

Tetrahedron: Asymmetry 17 (2006) 2260

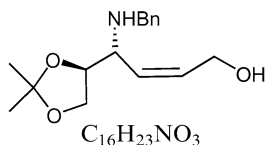


Tetrahydropyranyl derivative of (*S,Z*)-4-(benzylamino)-4-((*S*)-2',2'-dimethyl-1',3'-dioxolan-4'-yl)but-2-en-1-ol

Ee, de: >95% (NMR)
 $[\alpha]_D^{20} = -13.9$ (*c* 1.02, CHCl₃)
Source of chirality: asymmetric synthesis
Absolute configuration: 4*S*,4'*S*

David Díez,* Ana B. Antón, Pilar García, Marta G. Nuñez,
Narciso M. Garrido, Rosalina F. Moro, Isidro S. Marcos,
Pilar Basabe and Julio G. Urones

Tetrahedron: Asymmetry 17 (2006) 2260

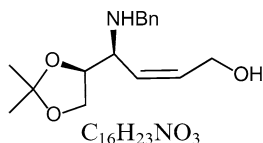


(*R,Z*)-4-(Benzylamino)-4-((*S*)-2',2'-dimethyl-1',3'-dioxolan-4'-yl)but-2-en-1-ol

Ee, de: >95% (NMR)
 $[\alpha]_D^{20} = -99.2$ (*c* 1.27, CHCl₃)
Source of chirality: asymmetric synthesis
Absolute configuration: 4*R*,4'*S*

David Díez,* Ana B. Antón, Pilar García, Marta G. Nuñez,
Narciso M. Garrido, Rosalina F. Moro, Isidro S. Marcos,
Pilar Basabe and Julio G. Urones

Tetrahedron: Asymmetry 17 (2006) 2260



C₁₆H₂₃NO₃

(*S,Z*)-4-(Benzylamino)-4-((*S*)-2',2'-dimethyl-1',3'-dioxolan-4'-yl)but-2-en-1-ol

Ee, de: >95% (NMR)

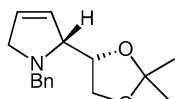
[α]_D²⁰ = -0.7 (c 0.67, CHCl₃)

Source of chirality: asymmetric synthesis

Absolute configuration: 4*S*,4'*S*

David Díez,* Ana B. Antón, Pilar García, Marta G. Nuñez,
Narciso M. Garrido, Rosalina F. Moro, Isidro S. Marcos,
Pilar Basabe and Julio G. Urones

Tetrahedron: Asymmetry 17 (2006) 2260



C₁₆H₂₁NO₂

(*S*)-1-Benzyl-2,5-dihydro-2-((*S*)-2',2'-dimethyl-1',3'-dioxolan-4'-yl)-1*H*-pyrrole

Ee, de: >95% (NMR)

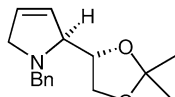
[α]_D²⁰ = +138.4 (c 0.41, CHCl₃)

Source of chirality: asymmetric synthesis

Absolute configuration: 2*S*,4'*S*

David Díez,* Ana B. Antón, Pilar García, Marta G. Nuñez,
Narciso M. Garrido, Rosalina F. Moro, Isidro S. Marcos,
Pilar Basabe and Julio G. Urones

Tetrahedron: Asymmetry 17 (2006) 2260



C₁₆H₂₁NO₂

(*R*)-1-Benzyl-2,5-dihydro-2-((*S*)-2',2'-dimethyl-1',3'-dioxolan-4'-yl)-1*H*-pyrrole

Ee, de: >95% (NMR)

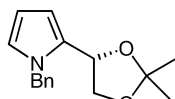
[α]_D²⁰ = -73.0 (c 0.63, CHCl₃)

Source of chirality: asymmetric synthesis

Absolute configuration: 2*R*,4'*S*

David Díez,* Ana B. Antón, Pilar García, Marta G. Nuñez,
Narciso M. Garrido, Rosalina F. Moro, Isidro S. Marcos,
Pilar Basabe and Julio G. Urones

Tetrahedron: Asymmetry 17 (2006) 2260



C₁₆H₁₉NO₂

1-Benzyl-2-((*S*)-2',2',2'-dimethyl-1',3'-dioxolan-4'-yl)-1*H*-pyrrole

Ee, de: >95% (NMR)

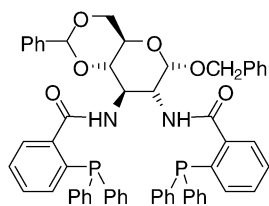
[α]_D²⁰ = -20.7 (c 0.83, CHCl₃)

Source of chirality: asymmetric synthesis

Absolute configuration: 4'*S*

Francesco Ruffo,* Raffaella Del Litto, Antonella De Roma,
Alessandra D'Errico and Santo Magnolia

Tetrahedron: Asymmetry 17 (2006) 2265



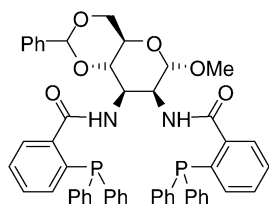
$[\alpha]_D = +23$ (*c* 1.0, CH₂Cl₂)

C₅₈H₅₀N₂O₂P₂

Benzyl-4,6-*O*-benzylidene-2,3-deoxy-2,3-diamino- α -D-glucoside-*N,N'*-bis(2'-diphenylphosho)benzoyl

Francesco Ruffo,* Raffaella Del Litto, Antonella De Roma,
Alessandra D'Errico and Santo Magnolia

Tetrahedron: Asymmetry 17 (2006) 2265



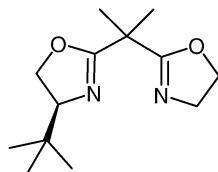
$[\alpha]_D = -29$ (*c* 1.0, CH₂Cl₂)

C₅₂H₄₆N₂O₆P₂

Methyl-4,6-*O*-benzylidene-2,3-deoxy-2,3-diamino- α -D-mannoside-*N,N'*-bis(2'-diphenylphosho)benzoyl

José I. García,* José A. Mayoral, Elisabet Pires* and Isabel Villalba

Tetrahedron: Asymmetry 17 (2006) 2270



$[\alpha]_D = -44.6$ (*c* 1, CH₂Cl₂)

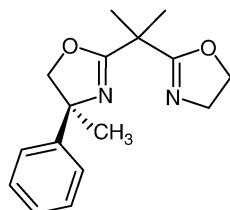
Source of chirality: (*S*)-2-amino-3,3-dimethyl-1-butanol

C₁₃H₂₂N₂O₂

(4*S*)-4-*tert*-Butyl-2-[1-(4,5-dihydro-1,3-oxazol-2-yl)-1-methylethyl]-4,5-dihydro-1,3-oxazole

José I. García,* José A. Mayoral, Elisabet Pires* and Isabel Villalba

Tetrahedron: Asymmetry 17 (2006) 2270



$[\alpha]_D = +4.6$ (*c* 1, EtOH)

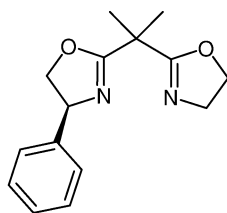
Source of chirality: (*S*)-2-amino-2-phenylpropan-1-ol

C₁₆H₂₀N₂O₂

(4*S*)-2-[1-(4,5-Dihydro-1,3-oxazol-2-yl)-1-methylethyl]-4-methyl-4-phenyl-4,5-dihydro-1,3-oxazole

José I. García,* José A. Mayoral, Elisabet Pires* and Isabel Villalba

Tetrahedron: Asymmetry 17 (2006) 2270



$[\alpha]_{\text{D}} = -124.6$ (*c* 1, CH₂Cl₂)

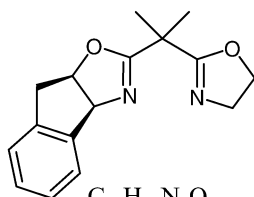
Source of chirality: (*S*)-2-amino-2-phenylethanol

C₁₅H₁₈N₂O₂

(4*S*)-2-[1-(4,5-Dihydro-1,3-oxazol-2-yl)-1-methylethyl]-4-phenyl-4,5-dihydro-1,3-oxazole

José I. García,* José A. Mayoral, Elisabet Pires* and Isabel Villalba

Tetrahedron: Asymmetry 17 (2006) 2270



$[\alpha]_{\text{D}} = -206.3$ (*c* 1, EtOH)

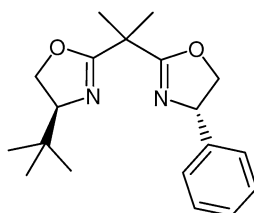
Source of chirality: (1*S*,2*R*)-(-)-*cis*-1-amino-2-indanol

C₁₆H₁₈N₂O₂

(3*aS*,8*aR*)-2-[1-(4,5-Dihydro-1,3-oxazol-2-yl)-1-methylethyl]-8,8*a*-dihydro-3*aH*-indeno[1,2-*d*][1,3]oxazole

José I. García,* José A. Mayoral, Elisabet Pires* and Isabel Villalba

Tetrahedron: Asymmetry 17 (2006) 2270



$[\alpha]_{\text{D}} = -173.3$ (*c* 1, CH₂Cl₂)

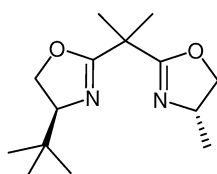
Source of chirality: (*S*)-2-amino-3,3-dimethyl-1-butanol
(*S*)-2-amino-2-phenylethanol

C₁₉H₂₆N₂O₂

(4*S*)-4-*tert*-Butyl-2-{1-methyl-1-[(4*S*)-4-phenyl-4,5-dihydro-1,3-oxazol-2-yl]ethyl}-4,5-dihydro-1,3-oxazole

José I. García,* José A. Mayoral, Elisabet Pires* and Isabel Villalba

Tetrahedron: Asymmetry 17 (2006) 2270



$[\alpha]_{\text{D}} = -86.9$ (*c* 0.8, CH₂Cl₂)

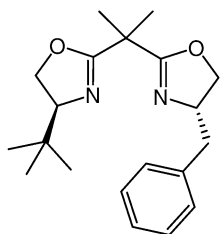
Source of chirality: (*S*)-2-amino-3,3-dimethyl-1-butanol
(*S*)-2-aminopropan-1-ol

C₁₄H₂₄N₂O₂

(4*S*)-4-*tert*-Butyl-2-{1-methyl-1-[(4*S*)-4-methyl-4,5-dihydro-1,3-oxazol-2-yl]ethyl}-4,5-dihydro-1,3-oxazole

José I. García,* José A. Mayoral, Elisabet Pires* and Isabel Villalba

Tetrahedron: Asymmetry 17 (2006) 2270



$C_{20}H_{28}N_2O_2$

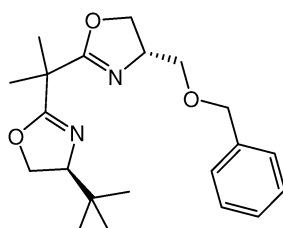
(4S)-4-Benzyl-2-{1-[(4S)-4-*tert*-Butyl-4,5-dihydro-1,3-oxazol-2-yl]-1-methylethyl}-4,5-dihydro-1,3-oxazole

$[\alpha]_D = -91.1$ (*c* 1, CH_2Cl_2)

Source of chirality: (*S*)-2-amino-3,3-dimethyl-1-butanol
(*S*)-2-amino-3-phenylpropan-1-ol

José I. García,* José A. Mayoral, Elisabet Pires* and Isabel Villalba

Tetrahedron: Asymmetry 17 (2006) 2270



$C_{21}H_{30}N_2O_3$

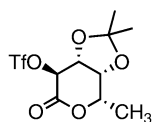
(4S)-4-[(Benzyloxy)methyl]-2-{1-[(4S)-4-*tert*-Butyl-4,5-dihydro-1,3-oxazol-2-yl]-1-methylethyl}-4,5-dihydro-1,3-oxazole

$[\alpha]_D = -96.9$ (*c* 1, CH_2Cl_2)

Source of chirality: (*S*)-2-amino-3,3-dimethyl-1-butanol
(*R*)-2-amino-3-(benzyloxy)propan-1-ol

Yves Blériot,* Michela I. Simone, Mark R. Wormald,
Raymond A. Dwek, David J. Watkin and George W. J. Fleet*

Tetrahedron: Asymmetry 17 (2006) 2276



$C_{10}H_{13}F_3O_7S$

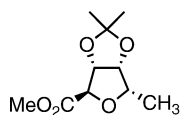
2-Trifluoromethanesulfonyl-3,4-*O*-isopropylidene-L-fucono-1,5-lactone

$[\alpha]_D^{22} = -64.3$ (*c* 1.11, $CHCl_3$)

Source of chirality: L-fucose

Yves Blériot,* Michela I. Simone, Mark R. Wormald,
Raymond A. Dwek, David J. Watkin and George W. J. Fleet*

Tetrahedron: Asymmetry 17 (2006) 2276



$C_{12}H_{22}O_5$

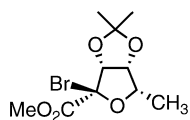
Methyl 2,5-anhydro-6-deoxy-3,4-*O*-isopropylidene-L-talonate

$[\alpha]_D^{22} = -33.8$ (*c* 1.95, $CHCl_3$)

Source of chirality: L-fucose

Yves Blériot,* Michela I. Simone, Mark R. Wormald,
Raymond A. Dwek, David J. Watkin and George W. J. Fleet*

Tetrahedron: Asymmetry 17 (2006) 2276

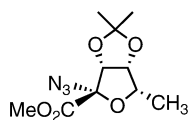


Methyl 2,5-anhydro-2-bromo-6-deoxy-3,4-*O*-isopropylidene-L-galactonate

$[\alpha]_{\text{D}}^{22} = -199$ (*c* 1.60, CHCl_3)
Source of chirality: L-fucose

Yves Blériot,* Michela I. Simone, Mark R. Wormald,
Raymond A. Dwek, David J. Watkin and George W. J. Fleet*

Tetrahedron: Asymmetry 17 (2006) 2276

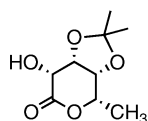


Methyl 2,5-anhydro-2-azido-6-deoxy-3,4-*O*-isopropylidene-L-talonate

$[\alpha]_{\text{D}}^{22} = -35.3$ (*c* 1.23, CHCl_3)
Source of chirality: L-fucose

Yves Blériot,* Michela I. Simone, Mark R. Wormald,
Raymond A. Dwek, David J. Watkin and George W. J. Fleet*

Tetrahedron: Asymmetry 17 (2006) 2276

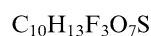
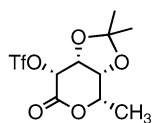


3,4-*O*-Isopropylidene-L-talono-1,5-lactone

$[\alpha]_{\text{D}}^{22} = -105.4$ (*c* 0.74, CHCl_3)
Source of chirality: L-fucose

Yves Blériot,* Michela I. Simone, Mark R. Wormald,
Raymond A. Dwek, David J. Watkin and George W. J. Fleet*

Tetrahedron: Asymmetry 17 (2006) 2276

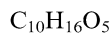
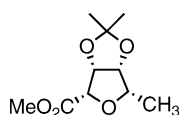


2-Trifluoromethanesulfonyl-3,4-*O*-isopropylidene-L-talono-1,5-lactone

$[\alpha]_{\text{D}}^{22} = -56.9$ (*c* 0.91, CHCl_3)
Source of chirality: L-fucose

Yves Blériot,* Michela I. Simone, Mark R. Wormald,
Raymond A. Dwek, David J. Watkin and George W. J. Fleet*

Tetrahedron: Asymmetry 17 (2006) 2276

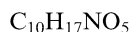
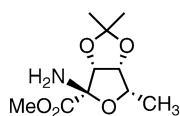


Methyl 2,5-anhydro-6-deoxy-3,4-*O*-isopropylidene-L-galactonate

$[\alpha]_{\text{D}}^{22} = -53.9$ (*c* 1.21, CHCl_3)
Source of chirality: L-fucose

Yves Blériot,* Michela I. Simone, Mark R. Wormald,
Raymond A. Dwek, David J. Watkin and George W. J. Fleet*

Tetrahedron: Asymmetry 17 (2006) 2276

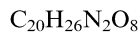
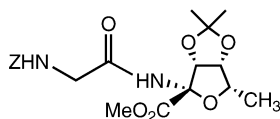


Methyl 2-amino-2,5-anhydro-6-deoxy-3,4-*O*-isopropylidene-L-galactonate

$[\alpha]_{\text{D}}^{23} = -27.7$ (*c* 0.95, CHCl_3)
Source of chirality: L-fucose

Yves Blériot,* Michela I. Simone, Mark R. Wormald,
Raymond A. Dwek, David J. Watkin and George W. J. Fleet*

Tetrahedron: Asymmetry 17 (2006) 2276

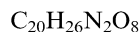
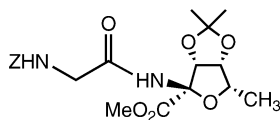


Methyl *N*-2-(benzyloxycarbonyl)glycylamino-2,5-anhydro-3,4-*O*-isopropylidene-6-deoxy-L-talonate

$[\alpha]_{\text{D}}^{22} = -3.2$ (*c* 1.19, CHCl_3)
Source of chirality: L-fucose

Yves Blériot,* Michela I. Simone, Mark R. Wormald,
Raymond A. Dwek, David J. Watkin and George W. J. Fleet*

Tetrahedron: Asymmetry 17 (2006) 2276

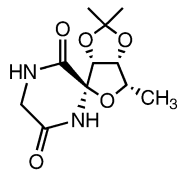


Methyl *N*-2-(benzyloxycarbonyl)glycylamino-2,5-anhydro-3,4-*O*-isopropylidene-6-deoxy-L-galactonate

$[\alpha]_{\text{D}}^{22} = -49$ (*c* 0.42, CHCl_3)
Source of chirality: L-fucose

Yves Blériot,* Michela I. Simone, Mark R. Wormald,
Raymond A. Dwek, David J. Watkin and George W. J. Fleet*

Tetrahedron: Asymmetry 17 (2006) 2276



C₁₁H₁₆N₂O₅

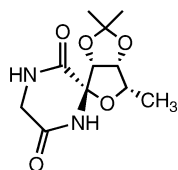
(2*S*,3*R*,4*R*,5*R*)-3,4-*O*-Isopropylidene-2-methyl-6,9-diaza-1-oxaspiro-[4.5]-decane-7,10-dione

$[\alpha]_D^{22} = -56.1$ (*c* 0.51, CHCl₃)

Source of chirality: L-fucose

Yves Blériot,* Michela I. Simone, Mark R. Wormald,
Raymond A. Dwek, David J. Watkin and George W. J. Fleet*

Tetrahedron: Asymmetry 17 (2006) 2276



C₁₁H₁₆N₂O₅

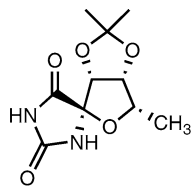
(2*S*,3*R*,4*R*,5*S*)-3,4-*O*-Isopropylidene-2-methyl-6,9-diaza-1-oxaspiro-[4.5]-decane-7,10-dione

$[\alpha]_D^{22} = -152.1$ (*c* 0.61, CH₃OH)

Source of chirality: L-fucose

Yves Blériot,* Michela I. Simone, Mark R. Wormald,
Raymond A. Dwek, David J. Watkin and George W. J. Fleet*

Tetrahedron: Asymmetry 17 (2006) 2276



C₁₀H₁₄N₂O₅

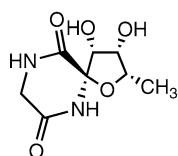
(2*S*,3*R*,4*R*,5*R*)-3,4-*O*-Isopropylidene-2-methyl-6,8-diaza-1-oxaspiro-[4.4]-nonane-7,9-dione

$[\alpha]_D^{22} = -72.6$ (*c* 0.58, CHCl₃)

Source of chirality: L-fucose

Yves Blériot,* Michela I. Simone, Mark R. Wormald,
Raymond A. Dwek, David J. Watkin and George W. J. Fleet*

Tetrahedron: Asymmetry 17 (2006) 2276



C₁₀H₁₈N₂O₅

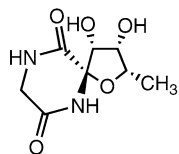
(2*S*,3*R*,4*R*,5*R*)-2-Methyl-6,9-diaza-1-oxaspiro-[4.5]-decane-7,10-dione

$[\alpha]_D^{22} = -1.1$ (*c* 0.43, CH₃OH)

Source of chirality: L-fucose

Yves Blériot,* Michela I. Simone, Mark R. Wormald,
Raymond A. Dwek, David J. Watkin and George W. J. Fleet*

Tetrahedron: Asymmetry 17 (2006) 2276



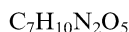
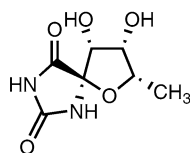
(2*S*,3*R*,4*R*,5*S*)-2-Methyl-6,9-diaza-1-oxaspiro-[4.5]-decane-7,10-dione

$$[\alpha]_D^{22} = -0.3 \text{ (} c \text{ 0.41, CH}_3\text{OH)}$$

Source of chirality: L-fucose

Yves Blériot,* Michela I. Simone, Mark R. Wormald,
Raymond A. Dwek, David J. Watkin and George W. J. Fleet*

Tetrahedron: Asymmetry 17 (2006) 2276



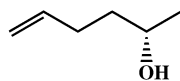
(2*S*,3*R*,4*R*,5*R*)-2-Methyl-6,8-diaza-1-oxaspiro-[4.4]-nonane-7,9-dione

$$[\alpha]_D^{22} = -23.2 \text{ (} c \text{ 0.57, CH}_3\text{OH)}$$

Source of chirality: L-fucose

Renato Bruni, Giancarlo Fantin, Silvia Maietti, Alessandro Medici,
Paola Pedrini* and Gianni Sacchetti

Tetrahedron: Asymmetry 17 (2006) 2287



5-Hexen-2-ol

Ee = 80% [by GLC analysis on a 25 m dimethyl-*n*-pentyl-cyclodextrin in OV 1701]

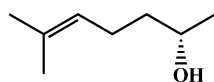
$$[\alpha]_D^{25} = +10 \text{ (} c \text{ 4.6, CHCl}_3\text{)}$$

Source of chirality: plant reduction

Absolute configuration: *S*

Renato Bruni, Giancarlo Fantin, Silvia Maietti, Alessandro Medici,
Paola Pedrini* and Gianni Sacchetti

Tetrahedron: Asymmetry 17 (2006) 2287



6-Methyl-5-hepten-2-ol

Ee = 90% [by GLC analysis on a 25 m dimethyl-*n*-pentyl-cyclodextrin in OV 1701]

$$[\alpha]_D^{25} = +13 \text{ (} c \text{ 1.3, EtOH)}$$

Source of chirality: plant reduction

Absolute configuration: *S*

Renato Bruni, Giancarlo Fantin, Silvia Maietti, Alessandro Medici,
Paola Pedrini* and Gianni Sacchetti

Tetrahedron: Asymmetry 17 (2006) 2287



C₇H₁₀O

endo-Bicyclo[3.2.0]hept-2-en-6-ol

Ee = 85% [by GLC analysis on a 25 m dimethyl-*n*-pentyl-cyclodextrin in OV 1701]

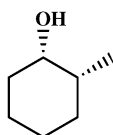
$[\alpha]_D^{25} = +57$ (*c* 1.1, CHCl₃)

Source of chirality: plant reduction

Absolute configuration: 1*S*,5*R*,6*S*

Renato Bruni, Giancarlo Fantin, Silvia Maietti, Alessandro Medici,
Paola Pedrini* and Gianni Sacchetti

Tetrahedron: Asymmetry 17 (2006) 2287



C₇H₁₄O

cis-2-Methylcyclohexanol

Ee = 24% [by GLC analysis on a 25 m diethyl-*tert*-butylsilyl-cyclodextrin in OV 1701]

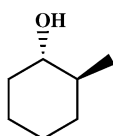
$[\alpha]_D^{25} = +5$ (*c* 1, MeOH)

Source of chirality: plant reduction

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

Renato Bruni, Giancarlo Fantin, Silvia Maietti, Alessandro Medici,
Paola Pedrini* and Gianni Sacchetti

Tetrahedron: Asymmetry 17 (2006) 2287



C₇H₁₄O

trans-2-Methylcyclohexanol

Ee = 92% [by GLC analysis on a 25 m diethyl-*tert*-butylsilyl-cyclodextrin in OV 1701]

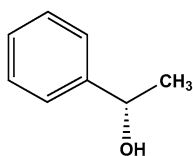
$[\alpha]_D^{25} = +37$ (*c* 9.6, EtOH)

Source of chirality: plant reduction

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

Renato Bruni, Giancarlo Fantin, Silvia Maietti, Alessandro Medici,
Paola Pedrini* and Gianni Sacchetti

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C₈H₁₀O

1-Phenylethanol

Ee = 100% [by GLC analysis on a 25 m permethylated-cyclodextrin in OV 1701]

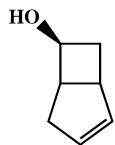
$[\alpha]_D^{25} = -43$ (*c* 5.1, CHCl₃)

Source of chirality: plant reduction

Absolute configuration: *S*

Renato Bruni, Giancarlo Fantin, Silvia Maietti, Alessandro Medici,
Paola Pedrini* and Gianni Sacchetti

Tetrahedron: Asymmetry 17 (2006) 2287



C₇H₁₀O

exo-Bicyclo[3.2.0]hept-2-en-6-ol

Ee = 100% [by GLC analysis on a 25 m dimethyl-*n*-pentyl-cyclodextrin in OV 1701]

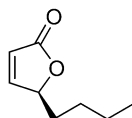
$[\alpha]_D^{25} = -91$ (*c* 2.6, CHCl₃)

Source of chirality: plant reduction

Absolute configuration: 1*R*,5*S*,6*S*

Mikio Fujii,* Motonori Fukumura, Yumiko Hori, Yasuaki Hirai,
Hiroyuki Akita, Kaoru Nakamura, Kazuo Toriizuka and Yoshiteru Ida

Tetrahedron: Asymmetry 17 (2006) 2292



C₈H₁₂O₂

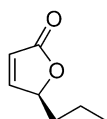
(*S*)-Oct-2-en-4-olide

$[\alpha]_D^{25} = +100.4$ (*c* 1.01, CHCl₃)

Source of chirality: (3*S*)-hept-1-en-3-yl crotonate

Mikio Fujii,* Motonori Fukumura, Yumiko Hori, Yasuaki Hirai,
Hiroyuki Akita, Kaoru Nakamura, Kazuo Toriizuka and Yoshiteru Ida

Tetrahedron: Asymmetry 17 (2006) 2292



C₇H₁₀O₂

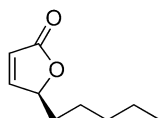
(*S*)-Hept-2-en-4-olide

$[\alpha]_D^{25} = +110.0$ (*c* 1.16, CHCl₃)

Source of chirality: (3*S*)-hex-1-en-3-yl crotonate

Mikio Fujii,* Motonori Fukumura, Yumiko Hori, Yasuaki Hirai,
Hiroyuki Akita, Kaoru Nakamura, Kazuo Toriizuka and Yoshiteru Ida

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C₉H₁₄O₂

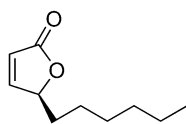
(*S*)-Non-2-en-4-olide

$[\alpha]_D^{25} = +94.0$ (*c* 1.05, CHCl₃)

Source of chirality: (3*S*)-oct-1-en-3-yl crotonate

Mikio Fujii,* Motonori Fukumura, Yumiko Hori, Yasuaki Hirai,
Hiroyuki Akita, Kaoru Nakamura, Kazuo Toriizuka and Yoshiteru Ida

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C₁₀H₁₆O₂

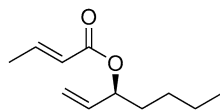
(S)-Dec-2-en-4-olide

$[\alpha]_D^{25} = +89.4$ (*c* 1.01, CHCl₃)

Source of chirality: (3S)-non-1-en-3-yl crotonate

Mikio Fujii,* Motonori Fukumura, Yumiko Hori, Yasuaki Hirai,
Hiroyuki Akita, Kaoru Nakamura, Kazuo Toriizuka and Yoshiteru Ida

Tetrahedron: Asymmetry 17 (2006) 2292



C₁₁H₁₈O₂

(3S)-Hept-1-en-3-yl crotonate

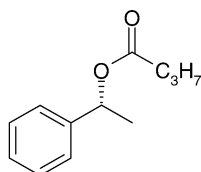
Ee >99%

$[\alpha]_D^{25} = +6.9$ (*c* 1.16, CHCl₃)

Source of chirality: resolution by lipase-catalyzed esterification

Sjoerd F. G. M. van Nispen, Jeroen van Buijtenen,
Jef A. J. M. Vekemans, Jan Meuldijk and Lumbertus A. Hulshof*

Tetrahedron: Asymmetry 17 (2006) 2299



C₁₂H₁₆O₂

(R)-1-Phenylethyl butyrate

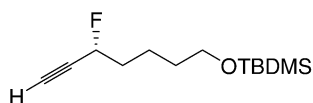
Ee >99%

$[\alpha]_D^{25} = +91.3$ (*c* 0.98, CHCl₃)

Source of chirality: dynamic kinetic resolution
Absolute configuration: (R)

Vijaya Lingam Manthati, A. Sai Krishna Murthy, Frédéric Caijo,
Delphine Drouin, Philippe Lesot, Danielle Grée and René Grée*

Tetrahedron: Asymmetry 17 (2006) 2306



C₁₄H₂₈FOSi

tert-Butyl[(3(R)-fluorohept-1-yn-7-yl)oxy]dimethylsilane

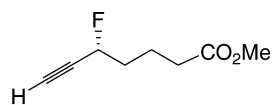
Ee: 96%

$[\alpha]_D^{21} = +3.0$ (*c* 1.00, CHCl₃)

Absolute configuration: R

Vijaya Lingam Manthathi, A. Sai Krishna Murthy, Frédéric Caijo,
Delphine Drouin, Philippe Lesot, Danielle Grée and René Grée*

Tetrahedron: Asymmetry 17 (2006) 2306



Methyl 5(*R*)-fluorohept-6-ynoate

Ee: 96%

$[\alpha]_D^{21} = +14.5$ (*c* 0.44, $CHCl_3$)

Absolute configuration: *R*