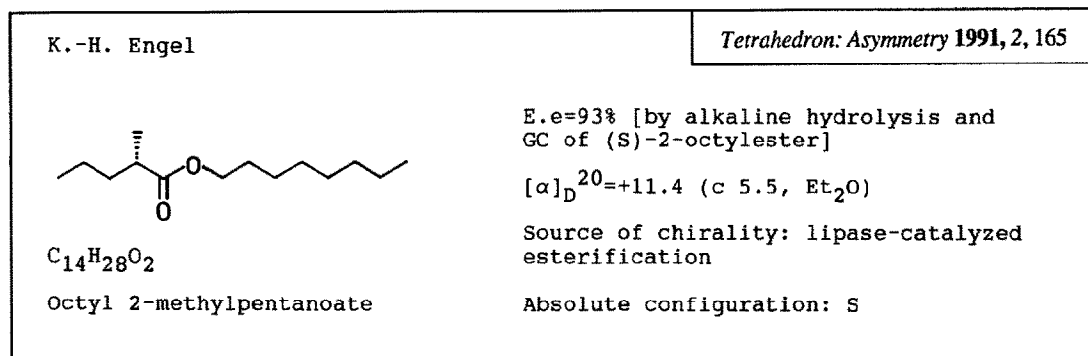
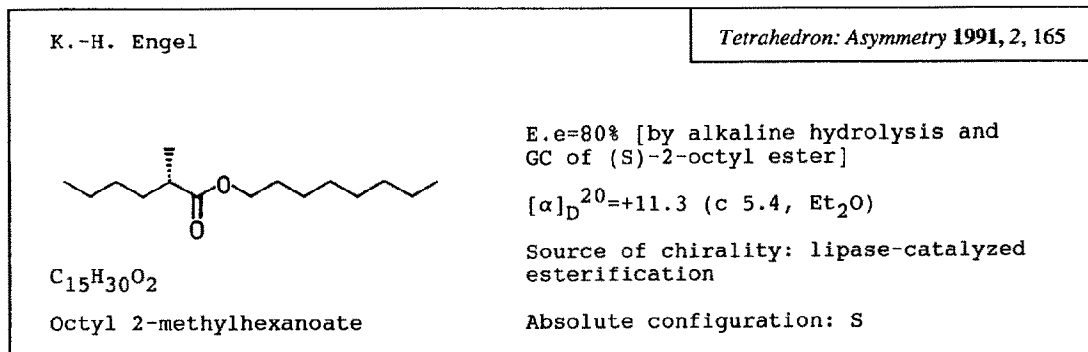
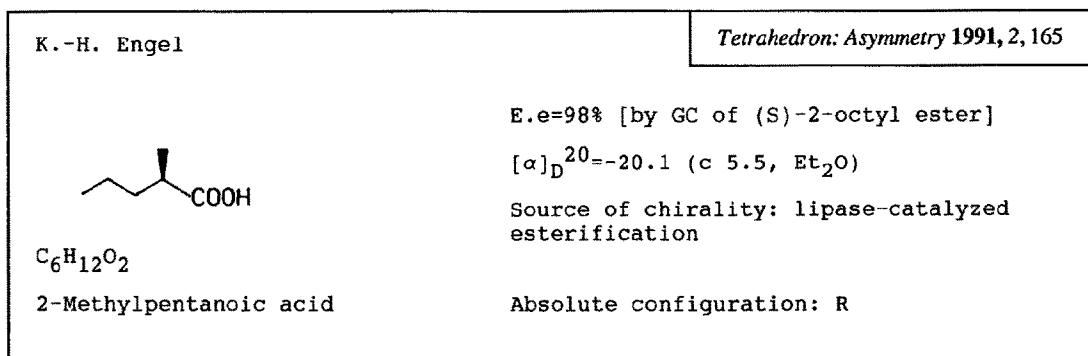
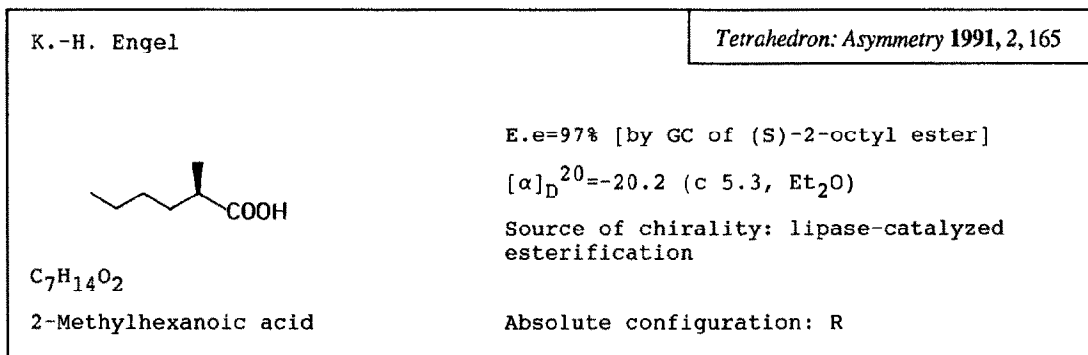
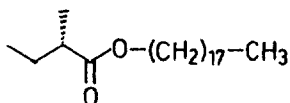


STEREOCHEMISTRY ABSTRACTS



K. -H. Engel

Tetrahedron: Asymmetry **1991**, *2*, 165



C₂₃H₄₆O₂

Octadecyl 2-methylbutanoate

E.e.=51% [by alkaline hydrolysis and GC of (R)-1-phenylethylamide]

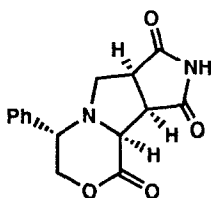
$[\alpha]_D^{20} = +4.2$ (c 5.5, Et₂O)

Source of chirality: lipase-catalyzed esterification

Absolute configuration: S

A. S. Anslow, L. M. Harwood, H. Phillips and D. Watkin

Tetrahedron: Asymmetry **1991**, *2*, 169



C₁₅H₁₄N₂O₄

2(R),6(S),7(R),8(R) 1-aza-4-oxa[4.3.0^{1,6}]bicyclononan-5-one-7,8-dicarboximide

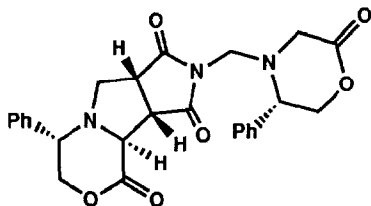
$[\alpha]_D^{20} = +45.3$ (c 1.0, CHCl₃)

Source of chirality (R)-2-phenylglycinol

Absolute configuration : 2(R), 6(S), 7(R), 8(R)

A. S. Anslow, L. M. Harwood, H. Phillips and D. Watkin

Tetrahedron: Asymmetry **1991**, *2*, 169



N-(5'(R)-phenylmorpholin-2-onyl)methyl 2(R),6(S),7(R),8(R)
1-aza-4-oxa[4.3.0^{1,6}]bicyclononan-5-one-7,8-dicarboximide

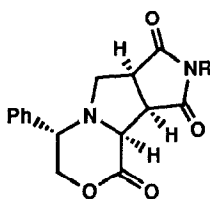
$[\alpha]_D^{20} = +13.0$ (c 1.0, CHCl₃)

Source of chirality (R)-2-phenylglycinol

Absolute configuration : 2(R), 6(S), 7(S), 8(S), 5'(R)

A. S. Anslow, L. M. Harwood, H. Phillips and D. Watkin

Tetrahedron: Asymmetry **1991**, *2*, 169



R = Me : C₁₆H₁₆N₂O₄ $[\alpha]_D^{20} = +45.0$ (c 1.0, CHCl₃)

R = Ph : C₂₁H₁₈N₂O₄ $[\alpha]_D^{20} = -42.3$ (c 0.6, CHCl₃)

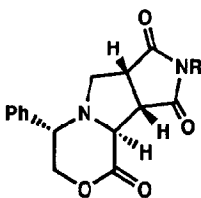
Source of chirality (R)-2-phenylglycinol

Absolute configuration : 2(R), 6(S), 7(R), 8(R)

N-methyl (or phenyl) 2(R),6(S),7(R),8(R) 1-aza-4-oxa[4.3.0^{1,6}]bicyclononan-5-one-7,8-dicarboximide

A. S. Anslow, L. M. Harwood, H. Phillips and D. Watkin

Tetrahedron: Asymmetry 1991, 2, 169



R = Me : C₁₆H₁₆N₂O₄ [α]₂₀^D = +30.9 (c 1.0, CHCl₃)

R = Ph : C₂₁H₁₈N₂O₄ [α]₂₀^D = +88.0 (c 0.25, CHCl₃)

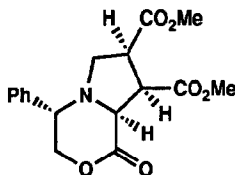
Source of chirality (*R*)-2-phenylglycinol

Absolute configuration : 2(*R*), 6(*S*), 7(*S*), 8(*S*)

N-methyl (or phenyl) 2(*R*),6(*S*),7(*S*),8(*S*) 1-aza-4-oxa[4.3.0^{1,6}]bicyclononan-5-one-7,8-dicarboximide

A. S. Anslow, L. M. Harwood, H. Phillips and D. Watkin

Tetrahedron: Asymmetry 1991, 2, 169



[α]₂₀^D = +6.0 (c 0.73, CHCl₃)

Source of chirality (*R*)-2-phenylglycinol

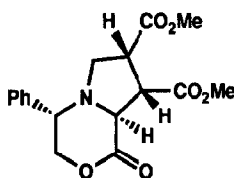
Absolute configuration : 2(*R*), 6(*S*), 7(*R*), 8(*R*)

C₁₇H₁₉NO₆

2(*R*),6(*S*),7(*R*),8(*R*) dimethyl 1-aza-4-oxa[4.3.0^{1,6}]bicyclononan-5-one-7,8-dicarboxylate

A. S. Anslow, L. M. Harwood, H. Phillips and D. Watkin

Tetrahedron: Asymmetry 1991, 2, 169



[α]₂₀^D = -14.7 (c 0.87, CHCl₃)

Source of chirality (*R*)-2-phenylglycinol

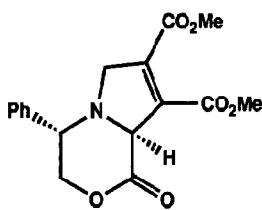
Absolute configuration : 2(*R*), 6(*S*), 7(*S*), 8(*S*)

C₁₇H₁₉NO₆

2(*R*),6(*S*),7(*S*),8(*S*) dimethyl 1-aza-4-oxa[4.3.0^{1,6}]bicyclononan-5-one-7,8-dicarboxylate

A. S. Anslow, L. M. Harwood, H. Phillips and D. Watkin

Tetrahedron: Asymmetry 1991, 2, 169



[α]₂₀^D = -76.0 (c 0.82, CHCl₃)

Source of chirality (*R*)-2-phenylglycinol

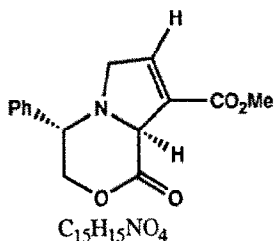
Absolute configuration : 2(*R*), 6(*S*)

C₁₇H₁₇NO₆

2(*R*), 6(*S*) dimethyl 1-aza-4-oxa[4.3.0^{1,6}]bicyclononan-7-en-5-one-7,8-dicarboxylate

A. S. Anslow, L. M. Harwood, H. Phillips and D. Watkin

Tetrahedron: Asymmetry 1991, 2, 169



$$[\alpha]_{20}^D = -32.8 \text{ (c 0.83, } CHCl_3)$$

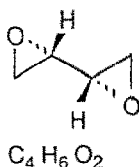
Source of chirality (*R*)-2-phenylglycinol

Absolute configuration : 2(*R*), 6(*S*)

2(*R*), 6(*S*) methyl 1-aza-4-oxa[4.3.0^{1,6}]bicyclononan-7-en-5-one-7-carboxylate

S-q. Zhang, S-y. Zhang and R. Feng

Tetrahedron: Asymmetry 1991, 2, 173



(*S,S*)-1,2:3,4-diepoxy-butane

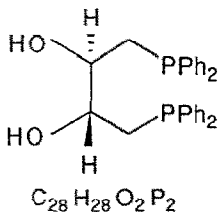
E.e. = 100 %

$$[\alpha]_D^{22} = -24 \text{ (c, 4.5 in } CCl_4)$$

Source of chirality: (*R,R*)-tartaric acid

S-q. Zhang, S-y. Zhang and R. Feng

Tetrahedron: Asymmetry 1991, 2, 173



(2*R*,3*R*)-1,4-bis(diphenylphosphino)-2,3-butanediol

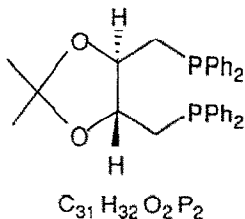
E.e. = 100 %

$$[\alpha]_D^{22} = -34.2 \text{ (c, 0.76 in } CHCl_3)$$

Source of chirality: (*R,R*)-tartaric acid

S-q. Zhang, S-y. Zhang and R. Feng

Tetrahedron: Asymmetry 1991, 2, 173



(2*R*,3*R*)-2,3-O-isopropylidene-2,3-dihydroxy-1,4-bis-
(diphenylphosphino) butane (DIOP)

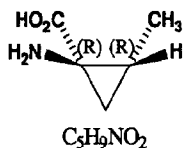
E.e. = 100 %

$$[\alpha]_D^{22} = -12.5 \text{ (c, 4.19 in benzene)}$$

Source of chirality: (*R,R*)-tartaric acid

A. Alami, M. Calmes, J. Daunis, F. Escale, R. Jacquier
M-L. Roumestant and P. Viallefont

Tetrahedron: Asymmetry 1991, 2, 175



2-Methyl-1-aminocyclopropane-1-carboxylic acid

ee \Rightarrow 99%

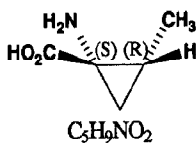
$[\alpha]_D^{20}$ -45 (c = 0.4, H₂O)

Absolute configuration : 1R,2R

Source of chirality : asymmetric synthesis

A. Alami, M. Calmes, J. Daunis, F. Escale, R. Jacquier
M-L. Roumestant and P. Viallefont

Tetrahedron: Asymmetry 1991, 2, 175



2-Methyl-1-aminocyclopropane-1-carboxylic acid

ee = 99%

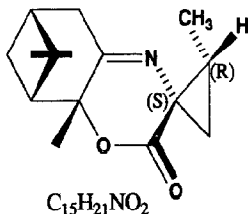
$[\alpha]_D^{20}$ -75 (c = 0.3, H₂O)

Absolute configuration : 1S,2R

Source of chirality : asymmetric synthesis

A. Alami, M. Calmes, J. Daunis, F. Escale, R. Jacquier
M-L. Roumestant and P. Viallefont

Tetrahedron: Asymmetry 1991, 2, 175



3-(Pinano[2,3-b]4,5-dehydro-morpholine-2-one)-spiro-1'-(2'-methyl cyclopropane)

ee = 99%

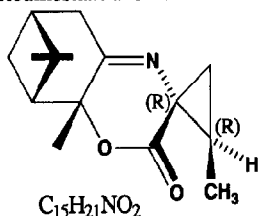
$[\alpha]_D^{20}$ -272 (c = 5, CH₂Cl₂)

Absolute configuration : 3S,5aR,6aR,6bR,8R

Source of chirality : Asymmetric synthesis

A. Alami, M. Calmes, J. Daunis, F. Escale, R. Jacquier
M-L. Roumestant and P. Viallefont

Tetrahedron: Asymmetry 1991, 2, 175



3-(Pinano[2,3-b]4,5-dehydro-morpholine-2-one)-spiro-1'-(2'-methyl cyclopropane)

ee = 99%

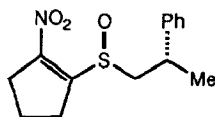
$[\alpha]_D^{20}$ -192 (c = 5, CH₂Cl₂)

Absolute configuration : 3R,5aR,6aR,6bR,8R

Source of chirality : Asymmetric synthesis

K. Fuji, K. Tanaka, H. Abe, M. Node, T. Taga, Y. Miwa, M. Shiro

Tetrahedron: Asymmetry **1991**, *2*, 179



$C_{14}H_{17}NO_3S$

(*SS,2S*)-1-(2-phenylpropylsulfinyl)-2-nitrocyclopentene

E.e. = 100%

$[\alpha]_D^{20} = -72.9$ ($c = 1.68$, $CHCl_3$)

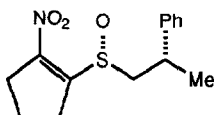
Source of chirality: (*S*)-Phenylpropionic acid

Absolute configuration: *SS, 2S*

Use: Chiral dienophile for asymmetric Diels-Alder reaction

K. Fuji, K. Tanaka, H. Abe, M. Node, T. Taga, Y. Miwa, M. Shiro

Tetrahedron: Asymmetry **1991**, *2*, 179



$C_{14}H_{17}NO_3S$

(*SR,2S*)-1-(2-phenylpropylsulfinyl)-2-nitrocyclopentene

E.e. = 100%

$[\alpha]_D^{20} = +388.3$ ($c = 0.84$, $CHCl_3$)

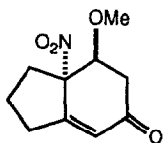
Source of chirality: (*S*)-Phenylpropionic acid

Absolute configuration: *SR, 2S*

Use: Chiral dienophile for asymmetric Diels-Alder reaction

K. Fuji, K. Tanaka, H. Abe, M. Node, T. Taga, Y. Miwa, M. Shiro

Tetrahedron: Asymmetry **1991**, *2*, 179



$C_{10}H_{13}NO_4$

(*1S,2S*)-Bicyclo[4,3,0]-1-nitro-2-methoxy-5-nonene-4-one

E.e. = >95% [1H -NMR with $Eu(hfc)_3$]

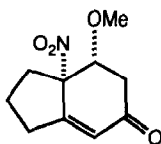
$[\alpha]_D^{22} = +87.1$ ($c = 1.00$, $CHCl_3$)

Source of chirality: Asymmetric Diels-Alder reaction with chiral sulfoxide

Absolute configuration: *1S, 2S*

K. Fuji, K. Tanaka, H. Abe, M. Node, T. Taga, Y. Miwa, M. Shiro

Tetrahedron: Asymmetry **1991**, *2*, 179



$C_{10}H_{13}NO_4$

(*1S,2R*)-Bicyclo[4,3,0]-1-nitro-2-methoxy-5-nonene-4-one

E.e. = >95% [1H -NMR with $Eu(hfc)_3$]

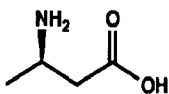
$[\alpha]_D^{22} = +302.5$ ($c = 1.62$, $CHCl_3$)

Source of chirality: Asymmetric Diels-Alder reaction with chiral sulfoxide

Absolute configuration: *1S, 2R*

S.G. Davies and O. Ichihara

Tetrahedron: Asymmetry 1991, 2, 183



$C_{14}H_{19}NO_2$

3-Amino butanoic acid

E.e. = 100%

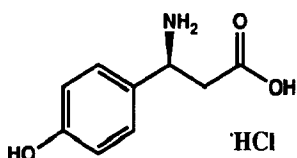
$[\alpha]_D^{19} -39.8$ (c = 0.47, H₂O)

Source of chirality: asymmetric synthesis

Absolute configuration: R.

S.G. Davies and O. Ichihara

Tetrahedron: Asymmetry 1991, 2, 183



$C_9H_{12}ClNO_3$

β -Tyrosine HCl

E.e. = >99%

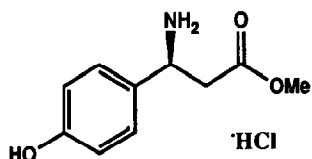
$[\alpha]_D^{25} +3.55$ (c = 1.38, H₂O)

Source of chirality: asymmetric synthesis

Absolute configuration: S

S.G. Davies and O. Ichihara

Tetrahedron: Asymmetry 1991, 2, 183



$C_{10}H_{14}ClNO_3$

β -Tyrosine methyl ester.HCl

E.e. = >99%

(by ¹H nmr with S-2,2,2-trifluoro-1-(9-anthryl)ethanol

$[\alpha]_D^{20} +10.55$ (c = 1.9, H₂O)

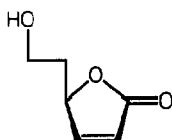
Source of chirality: asymmetric synthesis

Absolute configuration: S established by correlation with

S- β -tyrosine.HCl

B. Herradon

Tetrahedron: Asymmetry 1991, 2, 191



$C_6H_8O_3$

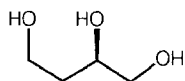
(R)-5-(2-Hydroxyethyl)-2(5H)-furanone

$[\alpha]_D^{25} = -48.2$ (c 2.2, CHCl₃)

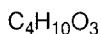
Source of chirality: synthesis from (R)-malic acid

B. Herradon

Tetrahedron: Asymmetry **1991**, 2, 191



$$[\alpha]_D^{25} = +27.5 \text{ (c 1.1, MeOH)}$$

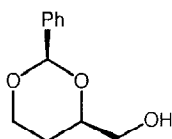


Source of chirality: synthesis from (R)-malic acid

(R)-1,2,4-Butanetriol

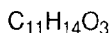
B. Herradon

Tetrahedron: Asymmetry **1991**, 2, 191



$$[\alpha]_D^{25} = -9.4 \text{ (c 1.2, CHCl}_3\text{)}$$

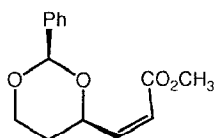
Source of chirality: synthesis from (R)-malic acid



(R,R)-4-Hydroxymethyl-2-phenyl-1,3-dioxane

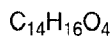
B. Herradon

Tetrahedron: Asymmetry **1991**, 2, 191



$$[\alpha]_D^{25} = -63.2 \text{ (c 1.2, CHCl}_3\text{)}$$

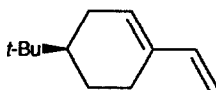
Source of chirality: synthesis from (R)-malic



Methyl (Z)-3-[(R,R)-2-phenyl-1,3-dioxan-4-yl]propenoate

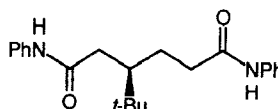
T. Hayashi, K. Kishi, and Y. Uozumi

Tetrahedron: Asymmetry **1991**, 2, 195



$C_{12}H_{20}$
4-*tert*-butyl-1-vinylcyclohexene

E.e. = 21% [by converting into



and HPLC with chiral stationary phase column, Sumipax OA-3100]

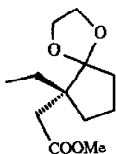
$$[\alpha]_D^{21} -23.4 \text{ (c 1.0, chloroform)}$$

Source of chirality: catalytic asymmetric elimination of 4-*tert*-butyl-1-vinylcyclohexyl acetate

Absolute configuration: *R* (oxidized into (*R*)-3-*tert*-butylhexanedioic acid)

J. d'Angelo, G. Revial, P.R.R. Costa, R.N. Castro, O.A.C. Antunes

Tetrahedron: Asymmetry 1991, 2, 199



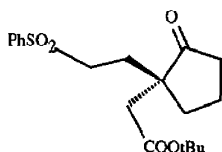
ee 86% (by ^1H NMR)
 $[\alpha]_{\text{D}}^{20} = -1.9^\circ$ (c 10.5 MeOH)
source of chirality : asymm. Michael
absolute configuration : 6 R

$\text{C}_{12}\text{H}_{20}\text{O}_4$

2,5-dioxaspiro[4,4]decane-6-ethyl-6-acetic acid, methyl ester

J. d'Angelo, G. Revial, P.R.R. Costa, R.N. Castro, O.A.C. Antunes

Tetrahedron: Asymmetry 1991, 2, 199



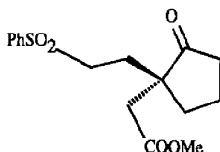
ee 86% (by ^1H NMR)
 $[\alpha]_{\text{D}}^{20} = -0.6^\circ$ (c 5, MeOH)
source of chirality : asymm. Michael
absolute configuration : 1 S

$\text{C}_{19}\text{H}_{26}\text{O}_5\text{S}$

2-oxo-1-(2-phenylsulfonyl-ethyl)-cyclopentylacetic acid, t-butyl ester

J. d'Angelo, G. Revial, P.R.R. Costa, R.N. Castro, O.A.C. Antunes

Tetrahedron: Asymmetry 1991, 2, 199



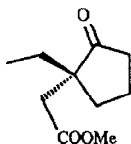
ee 86% (by ^1H NMR)
 $[\alpha]_{\text{D}}^{20} = -1.0^\circ$ (c 5.0, MeOH)
source of chirality : asymm. Michael
absolute configuration : 1 S

$\text{C}_{16}\text{H}_{20}\text{O}_5\text{S}$

2-oxo-1-(2-phenylsulfonyl-ethyl)-cyclopentylacetic acid, methyl ester

J. d'Angelo, G. Revial, P.R.R. Costa, R.N. Castro, O.A.C. Antunes

Tetrahedron: Asymmetry 1991, 2, 199



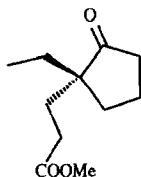
ee 86% (by capillary VPC)
 $[\alpha]_{\text{D}}^{20} = -2.3^\circ$ (c 6.2, CCl_4)
source of chirality : asymm. Michael
absolute configuration : 1 R

$\text{C}_{10}\text{H}_{16}\text{O}_3$

1-ethyl-2-oxo-cyclopentylacetic acid, methyl ester

J. d'Angelo, G. Revial, P.R.R. Costa, R.N. Castro, O.A.C. Antunes

Tetrahedron: Asymmetry **1991**, 2, 199



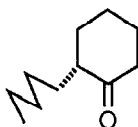
ee 90 % (by capillary VPC)
[α]_D²⁰ = -8.4° (c 3, EtOH)
source of chirality : asymm. Michael
absolute configuration : 1 R

C₁₁H₁₈O₃

3-(1-ethyl-2-oxo-cyclopentyl)-propionic acid, methyl ester

P. DUHAMEL, M. KOTERA and B. MARABOUT

Tetrahedron: Asymmetry **1991**, 2, 203



C₁₁H₂₀O

2-Pentylcyclohexanone

E.e. = 78% [by Wynberg's method]

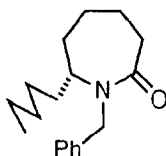
[α]_D²⁵ = -17.8 (c=5, MeOH)

Source of chirality: asymmetric synthesis

Absolute configuration: R (assigned by analogy
to J. Amer. Chem. Soc., 1976, **98**, 3032)

P. DUHAMEL, M. KOTERA and B. MARABOUT

Tetrahedron: Asymmetry **1991**, 2, 203



C₁₈H₂₇NO

N-Benzyl-7-pentylhexahydroazepin-2-one

E.e. = 74% [by nmr with Eu(hfc)₃]

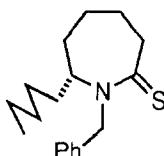
[α]_D²⁵ = +13.0 (c=6, MeOH)

Source of chirality: asymmetric synthesis

Absolute configuration: R

P. DUHAMEL, M. KOTERA and B. MARABOUT

Tetrahedron: Asymmetry **1991**, 2, 203



C₁₈H₂₇NS

N-Benzyl-7-pentylhexahydroazepin-2-thione

E.e. = >95% [by nmr of a derivative with Eu(hfc)₃]

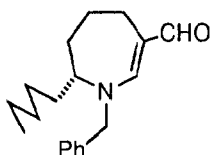
[α]_D²⁵ = +65.8 (c=5, MeOH)

Source of chirality: asymmetric synthesis

Absolute configuration: R

P. DUHAMEL, M. KOTERA and B. MARABOUT

Tetrahedron: Asymmetry **1991**, 2, 203



C₁₉H₂₇NO

N-Benzyl-7-pentyl-[1H]-4,5,6,7-tetrahydroazepine-3-carbaldehyde

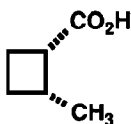
E.e. = >95% [by nmr with Eu(hfc)₃]

[α]_D²⁵ = +164 (c=5, MeOH)

Source of chirality: asymmetric synthesis

Absolute configuration: R

E. J. Toone and J. B. Jones



C₆H₁₀O₂

(+)-(1*S*,2*R*)-1-carboxy-2-methylcyclobutane

E.e. = >97% (by NMR with (+)-1-methylbenzylamine)

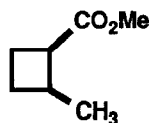
[α]_D²⁵ = +6.8 (c 16.2, CHCl₃)

Source of chirality: Enantioselective enzymic hydrolysis

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

Tetrahedron: Asymmetry **1991**, 2, 207

E. J. Toone and J. B. Jones



C₇H₁₂O₂

(-)-(1*R*,2*S*)-1-carbomethoxy-2-methylcyclobutane

E.e. = >97% (by NMR with Eu(hfc)₃)

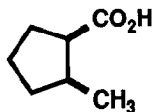
[α]_D²⁵ = -19.4 (c 5.0, CHCl₃)

Source of chirality: Enantioselective enzymic hydrolysis

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

Tetrahedron: Asymmetry **1991**, 2, 207

E. J. Toone and J. B. Jones



C₇H₁₂O₂

(+)-(1*R*,2*S*)-1-carboxy-2-methylcyclopentane

E.e. = 22 % (by NMR with (+)-1-methylbenzylamine)

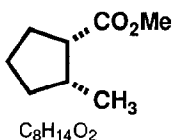
[α]_D²⁵ = +2.4 (c 24.9, CHCl₃)

Source of chirality: Enantioselective enzymic hydrolysis

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

Tetrahedron: Asymmetry **1991**, 2, 207

E. J. Toone and J. B. Jones



(+)-(1*S*,2*R*)-1-carbomethoxy-2-methylcyclopentane

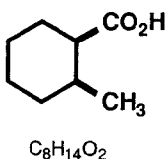
E e. = 17% (by NMR with $Eu(hfc)_3$)

$[\alpha]_D^{25} = +5.6$ (c 14.8, $CHCl_3$)

Source of chirality: Enantioselective enzymic hydrolysis

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

E. J. Toone and J. B. Jones



(+)-(1*R*,2*S*)-1-carboxy-2-methylcyclohexane

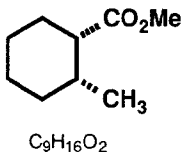
E.e. = >97% (by NMR with (+)-1-methylbenzylamine)

$[\alpha]_D^{25} = +7.4$ (c 37.2, $CHCl_3$)

Source of chirality: Enantioselective enzymic hydrolysis

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

E. J. Toone and J. B. Jones



(-)-(1*S*,2*R*)-1-carbomethoxy-2-methylcyclohexane

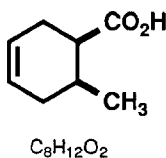
E.e. = >97% (by NMR with $Eu(hfc)_3$)

$[\alpha]_D^{25} = -0.41$ (c 32.4, $CHCl_3$)

Source of chirality: Enantioselective enzymic hydrolysis

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

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(-)-(1*R*,2*S*)-1-carboxy-2-methyl-4-cyclohexene

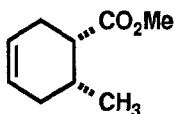
E.e. =>97% (by NMR with (+)-1-methylbenzylamine)

$[\alpha]_D^{25} = -26.9$ (c 26, $CHCl_3$)

Source of chirality: Enantioselective enzymic hydrolysis

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

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$C_9H_{14}O_2$

(-)-(1*S*,2*R*)-1-carbomethoxy-2-methyl-4-cyclohexene

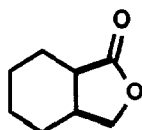
E.e. = >97% (by NMR withEu(hfc)₃)

$[\alpha]_D^{25} = +18.1$ (c 34, CHCl₃)

Source of chirality: Enantioselective enzymic hydrolysis

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

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(-)-(1*R*,6*S*)-11

98%, ≥97% ee

$C_8H_{12}O_2$

(-)-(1*R*,6*S*)-8-oxabicyclo[4.3.0]nonan-9-one

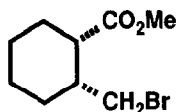
E.e. = >97% (by NMR withEu(hfc)₃)

$[\alpha]_D^{25} = -38.0$ (c 2.37, CHCl₃)

Source of chirality: Enantioselective enzymic hydrolysis

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

E. J. Toone and J. B. Jones



$C_9H_{15}O_2Br$

(+)-(1*S*,2*R*)-1-carbomethoxy-2-bromomethylcyclohexane

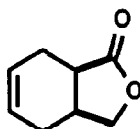
E.e. = >97% (by NMR withEu(hfc)₃)

$[\alpha]_D^{25} = +11.3$ (c 41.0, CHCl₃)

Source of chirality: Enantioselective enzymic hydrolysis

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

E. J. Toone and J. B. Jones



$C_8H_{10}O_2$

(+)-(1*R*,6*S*)-8-oxabicyclo[4.3.0]non-3-ene-9-one

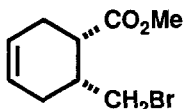
E.e. =>97% (by NMR withEu(hfc)₃)

$[\alpha]_D^{25} = +50.9$ (c 18.1, CHCl₃)

Source of chirality: Enantioselective enzymic hydrolysis

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

E. J. Toone and J. B. Jones



C₉H₁₃O₂Br

(+)-(1*S*,2*R*)-1-carbomethoxy-2-bromomethyl-4-cyclohexene

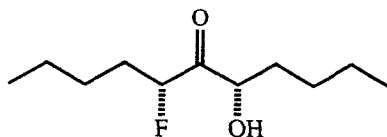
E.e. = >97% (by NMR with Eu(hfc)₃)

[α]_D²⁵ = +29.0 (c 31, CHCl₃)

Source of chirality: Enantioselective enzymic hydrolysis

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

C. Gosmini, T. Dubuffet, R. Sauvêtre, J.-F. Normant.



7-fluoro undecan-5-ol-6-one

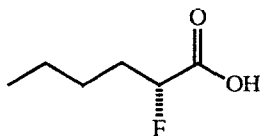
E.e. > 95% [NMR]

[α]_D²⁴ = + 128.84 (c = 6.9, CHCl₃)

Source of chirality : asymmetric epoxidation of fluorinated allylic alcohols

Absolute configuration : 5*S*, 7*R*.

C. Gosmini, T. Dubuffet, R. Sauvêtre, J.-F. Normant.



2-fluorohexanoic acid

E.e. > 95% [NMR]

[α]_D²⁵ = + 14.06 (c = 1.7, CHCl₃)

Source of chirality : asymmetric epoxidation of fluorinated allylic alcohols

Absolute configuration : R