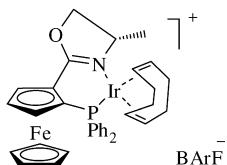


Stereochemistry abstracts

Xinsheng Li,* Qing Li, Xiaohua Wu, Yongguang Gao,
Dongcheng Xu and Lichun Kong

Tetrahedron: Asymmetry 18 (2007) 629



Ee = 100%

$[\alpha]_D^{20} = -336.7$ (*c* 0.28, CH₂Cl₂)

Source of chirality: asymmetric synthesis

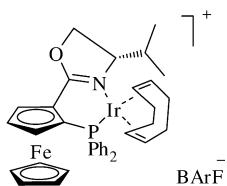
Absolute configuration: (S,S)

C₆₆H₄₈BF₂₄IrFeNOP

(η^4 -1,5-Cyclooctadiene) [(S,S)-(4,5-dihydro-4-methyl-2-oxazolyl)-2-diphenylphosphinoferrocene] iridium(I) tetrakis[3,5-bis(trifluoromethyl)phenyl]borate

Xinsheng Li,* Qing Li, Xiaohua Wu, Yongguang Gao,
Dongcheng Xu and Lichun Kong

Tetrahedron: Asymmetry 18 (2007) 629



Ee = 100%

$[\alpha]_D^{20} = -471.2$ (*c* 0.29, CH₂Cl₂)

Source of chirality: asymmetric synthesis

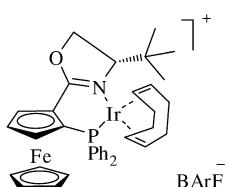
Absolute configuration: (S,S)

C₆₈H₅₂BF₂₄FeIrNOP

(η^4 -1,5-Cyclooctadiene) [(S,S)-(4,5-dihydro-4-isopropyl-2-oxazolyl)-2-diphenylphosphinoferrocene] iridium(I) tetrakis[3,5-bis(trifluoromethyl)phenyl]borate

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Tetrahedron: Asymmetry 18 (2007) 629



Ee = 100%

$[\alpha]_D^{20} = -641.1$ (*c* 0.18, CH₂Cl₂)

Source of chirality: asymmetric synthesis

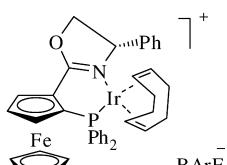
Absolute configuration: (S,S)

C₆₉H₅₄BF₂₄FeIrNOP

(η^4 -1,5-Cyclooctadiene) [(S,S)-(4,5-dihydro-4-tert-butyl-2-oxazolyl)-2-diphenylphosphinoferrocene] iridium(I) tetrakis[3,5-bis(trifluoromethyl)phenyl]borate

Xinsheng Li,* Qing Li, Xiaohua Wu, Yongguang Gao,
Dongcheng Xu and Lichun Kong

Tetrahedron: Asymmetry 18 (2007) 629



Ee = 100%

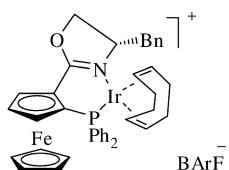
$[\alpha]_D^{20} = -578.0$ (*c* 0.20, CH₂Cl₂)

Source of chirality: asymmetric synthesis

Absolute configuration: (S,S)

C₇₁H₅₀BF₂₄FeIrNOP

(η^4 -1,5-Cyclooctadiene) [(S,S)-(4,5-dihydro-4-phenyl-2-oxazolyl)-2-diphenylphosphinoferrocene] iridium(I) tetrakis[3,5-bis(trifluoromethyl)phenyl]borate



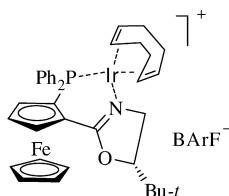
$C_{72}H_{52}BF_{24}FeIrNOP$
(η^4 -1,5-Cyclooctadiene) [(*S,S*)-(4,5-dihydro-4-benzyl-2-oxazolyl)-2-diphenylphosphinoferrocene] iridium(I) tetrakis[3,5-bis(trifluoromethyl)phenyl]borate

Ee = 100%

$[\alpha]_D^{20} = -397.4$ (*c* 0.20, CH_2Cl_2)

Source of chirality: asymmetric synthesis

Absolute configuration: (*S,S*)



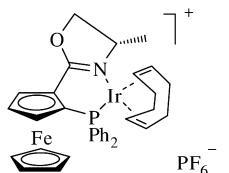
$C_{69}H_{54}BF_{24}FeIrNOP$
(η^4 -1,5-Cyclooctadiene) [(*S,R*)-(4,5-dihydro-4-*tert*-butyl-2-oxazolyl)-2-diphenylphosphinoferrocene] iridium(I) tetrakis[3,5-bis(trifluoromethyl)phenyl]borate

Ee = 100%

$[\alpha]_D^{20} = +217.2$ (*c* 0.14, CH_2Cl_2)

Source of chirality: asymmetric synthesis

Absolute configuration: (*S,R*)



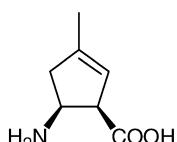
$C_{34}H_{36}F_6FeIrNOP_2$
(η^4 -1,5-Cyclooctadiene) [(*S,S*)-(4,5-dihydro-4-methyl-2-oxazolyl)-2-diphenylphosphinoferrocene] iridium(I) hexafluorophosphate

Ee = 100%

$[\alpha]_D^{20} = -160.1$ (*c* 0.1, CH_2Cl_2)

Source of chirality: asymmetric synthesis

Absolute configuration: (*S,S*)



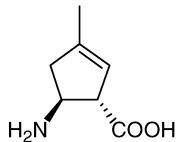
$C_7H_{11}NO_2$
(1*R,5S*)-5-Amino-3-methyl-cyclopent-2-enecarboxylic acid

Ee = 96%

$[\alpha]_D^{25} = -115$ (*c* 1, H_2O)

Source of chirality: asymmetric synthesis

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

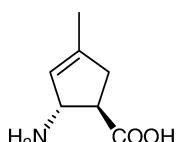


C₇H₁₁NO₂
(1*S*,5*S*)-5-Amino-3-methyl-cyclopent-2-enecarboxylic acid

Ee = 96%

[α]_D²⁵ = +216 (*c* 0.8, H₂O)

Source of chirality: asymmetric synthesis

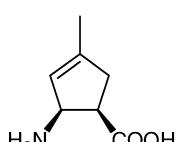
Absolute configuration: (1*S*,5*S*)

C₇H₁₁NO₂
(1*R*,2*R*)-2-Amino-4-methyl-cyclopent-3-enecarboxylic acid

Ee = 99%

[α]_D²⁵ = -180 (*c* 0.6, H₂O)

Source of chirality: asymmetric synthesis

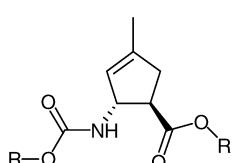
Absolute configuration: (1*R*,2*R*)

C₇H₁₁NO₂
(1*R*,2*S*)-2-Amino-4-methyl-cyclopent-3-enecarboxylic acid

Ee = 99%

[α]_D²⁵ = +65 (*c* 0.8, H₂O)

Source of chirality: asymmetric synthesis

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

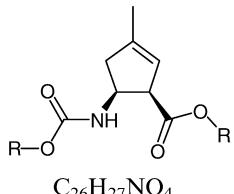
C₂₆H₂₇NO₄
(1*R*,2*R*)-4-Methyl-2-(3-phenyl-allyloxycarbonylamino)-cyclopent-3-enecarboxylic acid 3-phenyl-allyl ester

Ee = 99%

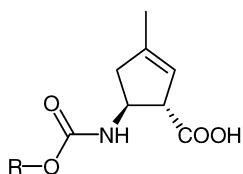
[α]_D²⁵ = -101 (*c* 1, CH₂Cl₂)

Source of chirality: asymmetric synthesis

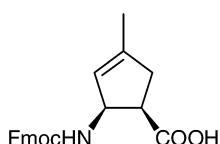
Absolute configuration: (1*R*,2*R*)

(1*R*,*S*)-3-Methyl-5-(3-phenyl-allyloxycarbonylamino)-cyclopent-2-enecarboxylic acid 3-phenyl-allyl ester $Ee = 96\%$ $[\alpha]_D^{25} = -129$ (*c* 1, CH_2Cl_2)

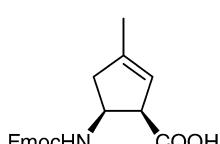
Source of chirality: asymmetric synthesis

Absolute configuration: (1*R*,*S*)(1*S*,*S*)-3-Methyl-5-(3-phenyl-allyloxycarbonylamino)-cyclopent-2-enecarboxylic acid $Ee = 96\%$ $[\alpha]_D^{25} = +46$ (*c* 1, CH_2Cl_2)

Source of chirality: asymmetric synthesis

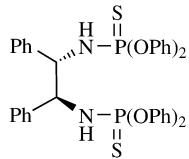
Absolute configuration: (1*R*,*S*)(1*R*,*S*)-2-(9*H*-Fluoren-9-ylmethoxycarbonylamino)-4-methyl-cyclopent-3-enecarboxylic acid $Ee = 99\%$ $[\alpha]_D^{25} = +78$ (*c* 1, CH_2Cl_2)

Source of chirality: asymmetric synthesis

Absolute configuration: (1*R*,*S*)(1*R*,*S*)-5-(9*H*-Fluoren-9-ylmethoxycarbonylamino)-3-methyl-cyclopent-2-enecarboxylic acid $Ee = 99\%$ $[\alpha]_D^{25} = -91$ (*c* 1, CH_2Cl_2)

Source of chirality: asymmetric synthesis

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

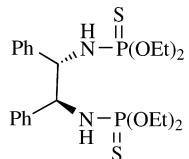


$C_{38}H_{34}N_2O_4P_2S_2$
[2-(Diphenoxothiophosphorylamino)-1,2-diphenylethyl]thiophosphoramidic acid O,O' -diphenyl ester

Ee = 100%

 $[\alpha]_D^{20} = -47.8$ (*c* 0.86, CH_2Cl_2)

Source of chirality: optical resolution

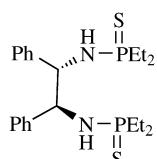
Absolute configuration: (*S,S*)

$C_{22}H_{34}N_2O_4P_2S_2$
[2-(Diethoxythiophosphorylamino)-1,2-diphenylethyl]thiophosphoramidic acid O,O' -diethyl ester

Ee = 100%

 $[\alpha]_D^{20} = -18.8$ (*c* 1.16, CH_2Cl_2)

Source of chirality: optical resolution.

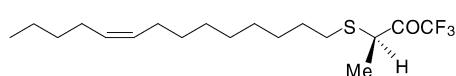
Absolute configuration: (*S,S*)

$C_{22}H_{34}N_2P_2S_2$
Diethylthiophosphoramides

Ee = 100%

 $[\alpha]_D^{20} = +76.5$ (*c* 0.87, CH_2Cl_2)

Source of chirality: optical resolution

Absolute configuration: (*S,S*)

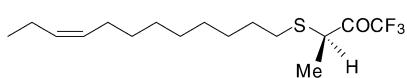
$C_{18}H_{31}F_3OS$
(*R*)-(-)-(Z)-1,1,1-Trifluoro-3-methyl-4-thia-13-octadecen-2-one

Ee = 90%

 $[\alpha]_D^{20} = -132.4$ (*c* 1.36, $CHCl_3$)

Source of chirality: asymmetric alkylation

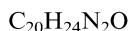
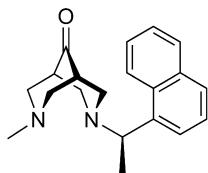
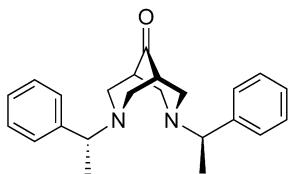
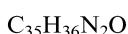
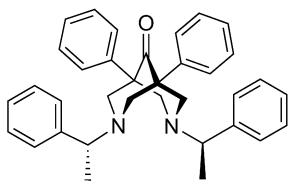
Absolute configuration: (*R*) (from the known absolute configuration of its precursor)

 $Ee = 93\%$ $[\alpha]_D^{20} = -182.5 (c \ 1.36, \text{CHCl}_3)$

Source of chirality: asymmetric alkylation

Absolute configuration: (*R*) (from the known absolute configuration of its precursor)

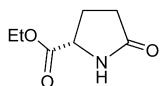
(R)-(-)-(Z)-1,1,1-Trifluoro-3-methyl-4-thia-13-hexadecen-2-one

(1'*R*,1*R*,5*S*)-3-Methyl-7-(1'-naphthalen-1-yl-ethyl)-3,7-diaza-bicyclo[3.3.1]nonan-9-one $[\alpha]_D^{20} = -30.6 (c \ 1, \text{CHCl}_3)$ Source of asymmetry: (*R*)-1-naphthalen-1-yl-ethylamineAbsolute configuration: (1'*R*,1*R*,5*S*)3,7-Bis-((*R*)-1'-phenyl-ethyl)-3,7-diaza-bicyclo[3.3.1]nonan-9-one $[\alpha]_D^{20} = +4.2 (c \ 0.5, \text{CHCl}_3)$ Source of asymmetry: (*R*)-1-phenyl-ethylamineAbsolute configuration: (*R,R*)1,5-Diphenyl-3,7-bis-((*R*)-1'-phenyl-ethyl)-3,7-diaza-bicyclo[3.3.1]nonan-9-one $[\alpha]_D^{20} = -8.4 (c \ 1, \text{CHCl}_3)$ Source of asymmetry: (*R*)-1-phenyl-ethylamineAbsolute configuration: (*R,R*)

Ee = 100%

 $[\alpha]_D^{22} = -6.8$ (*c* 0.03, EtOH)

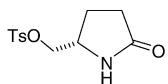
Source of chirality: enantiomerically pure starting material

Absolute configuration: (2*S*)Ethyl-(2*S*)-5-oxopyrrolidine

Ee = 100%

 $[\alpha]_D^{22} = -6.5$ (*c* 0.013, EtOH)

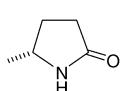
Source of chirality: enantiomerically pure starting material

Absolute configuration: (2*S*)[(2*S*)-5-Oxopyrrolidin-2-yl]methyl-4-methylbenzenesulfonate **4**

Ee = 100%

 $[\alpha]_D^{22} = +15.8$ (*c* 0.023, EtOH)

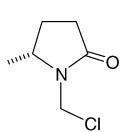
Source of chirality: enantiomerically pure starting material

Absolute configuration: (5*R*)(5*R*)-5-Methylpyrrolidin-2-one **5**

Ee = 100%

 $[\alpha]_D^{22} = +106.9$ (*c* 0.021, CHCl₃)

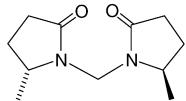
Source of chirality: enantiomerically pure starting material

Absolute configuration: (5*R*)(5*R*)-Methyl-1-(chloromethyl)-2-pyrrolidinone

Ee = 100%

 $[\alpha]_D^{22} = +207.7$ (*c* 0.48, CHCl₃)

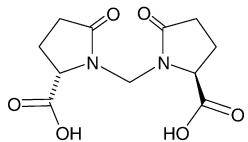
Source of chirality: enantiomerically pure starting material

Absolute configuration: (5*R*,2*R*)C₁₁H₁₈N₂O₂(5*R*)-5-Methyl-1-[(2*R*)-2-methyl-5-oxopyrrolidin-1-yl]methylpyrrolidin-2-one

Ee = 100%

 $[\alpha]_D^{22} = +104.0$ (*c* 0.022, H₂O)

Source of chirality: enantiomerically pure starting material

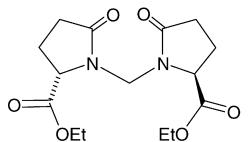
Absolute configuration: (2*S*,2'*S*)C₁₁H₁₄N₂O₆

L-(+)-1,1'-Methylenebis[5-oxo-2-pyrrolidinecarboxylic acid]

Ee = 100%

 $[\alpha]_D^{22} = +52.7$ (*c* 0.0204, EtOH)

Source of chirality: enantiomerically pure starting material

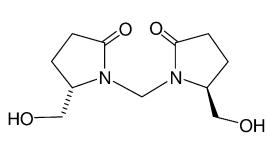
Absolute configuration: (2*S*,2'*S*)C₁₅H₂₂N₂O₆

L-(+)-1,1'-Methylenebis[5-oxo-2-pyrrolidinecarboxylic acid ethyl ester]

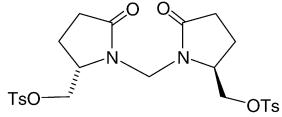
Ee = 100%

 $[\alpha]_D^{22} = +91.3$ (*c* 0.0145, H₂O)

Source of chirality: enantiomerically pure starting material

Absolute configuration: (2*S*,2'*S*)C₁₁H₁₈N₂O₄

L-(+)-1,1'-Methylenebis[5-hydroxymethyl-2-pyrrolidinone]



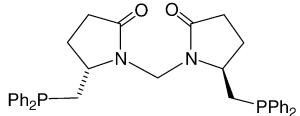
L-(+)-1,1'-Methylenebis[toluene-4-sulfonic acid (S)-5-oxo-pyrrolidin-2-ylmethyl ester]

Ee = 100%

$[\alpha]_D^{22} = +52.6$ (*c* 0.0204, EtOH)

Source of chirality: enantiomerically pure starting material

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



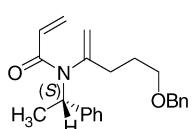
Methylenebis[5-diphenylphosphino-2-pyrrolidinone]

Ee = 100%

$[\alpha]_D^{22} = +83.6$ (*c* 0.031, EtOH)

Source of chirality: enantiomerically pure starting material

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

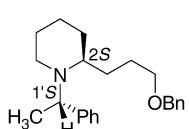


N-(4-(Benzylxyloxy-1-methylene-butyl)-N-(1-(S)-phenyl-ethyl)-acrylamide

$[\alpha]_D^{22} = -82.8$ (*c* 1.50, MeOH)

Source of chirality: chiral starting material

Absolute configuration: (S)



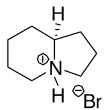
(S)-2-(3-Benzylxyloxy-propyl)-1-(1'-(S)-phenyl-ethyl)-piperidine

Ee >97% (vide infra)

$[\alpha]_D^{22} = -68.4$ (*c* 1.00, MeOH)

Source of chirality: asymmetric synthesis (reductive photocyclization of chiral dienamide)

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

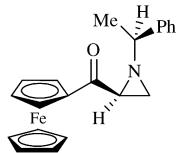


C₈H₁₆BrN
(+)-Coniceine hydrobromide

Ee > 97% (determined by NMR-experiments)

[α]_D²² = +5.5 (c 0.88, EtOH)

Source of chirality: asymmetric synthesis (reductive photocyclization of chiral dienamide)



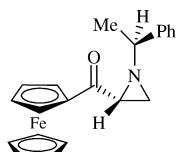
C₂₁H₂₁FeNO
Ferrocenyl((S)-1-((S)-1-phenylethyl)aziridin-2-yl)methanone

Ee = 99%

[α]_D²⁵ = -90.0 (c 1.00, CHCl₃)

Source of chirality: L- α -methylbenzylamine 99% ee

Absolute configuration: (S,S)



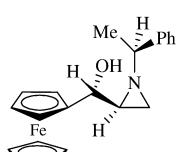
C₂₁H₂₁FeNO
Ferrocenyl((R)-1-((S)-1-phenylethyl)aziridin-2-yl)methanone

Ee = 99%

[α]_D²⁵ = -220.0 (c 1.00, CHCl₃)

Source of chirality: L- α -methylbenzylamine 99% ee

Absolute configuration: (R,S)



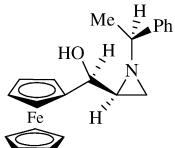
C₂₁H₂₃FeNO
(R)-Ferrocenyl((S)-1-((S)-1-phenylethyl)aziridin-2-yl)methanol

Ee = 99%

[α]_D²⁵ = -45.2 (c 1.00, CHCl₃)

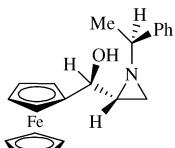
Source of chirality: L- α -methylbenzylamine 99% ee

Absolute configuration: (R,S,S)



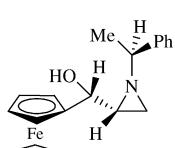
$C_{21}H_{23}FeNO$
(*S*)-Ferrocetyl((*S*)-1-((*S*)-1-phenylethyl)aziridin-2-yl)methanol

Ee = 99%

 $[\alpha]_D^{25} = -46.3$ (*c* 1.00, CHCl₃)Source of chirality: L- α -methylbenzylamine 99% eeAbsolute configuration: (*S,S,S*)

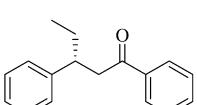
$C_{21}H_{23}FeNO$
(*S*)-Ferrocetyl((*R*)-1-((*S*)-1-phenylethyl)aziridin-2-yl)methanol

Ee = 99%

 $[\alpha]_D^{25} = -20.9$ (*c* 1.00, CHCl₃)Source of chirality: L- α -methylbenzylamine 99% eeAbsolute configuration: (*S,R,S*)

$C_{21}H_{23}FeNO$
(*R*)-Ferrocetyl((*R*)-1-((*S*)-1-phenylethyl)aziridin-2-yl)methanol

Ee = 99%

 $[\alpha]_D^{25} = -3.0$ (*c* 1.00, CHCl₃)Source of chirality: L- α -methylbenzylamine 99% eeAbsolute configuration: (*R,R,S*)

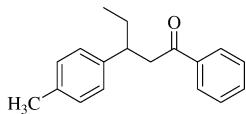
$C_{17}H_{18}O$
(*R*)-1,3-Diphenylpentan-1-one

Ee = 80%

 $[\alpha]_D^{25} = -4.3$ (*c* 1.35, EtOH)

Source of chirality: asymmetric synthesis

Absolute configuration: (*R*)

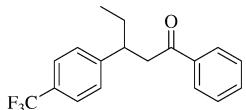


C₁₈H₂₀O
(-) -1-Phenyl-3-p-tolylpentan-1-one

Ee = 72%

[α]_D²⁵ = -9.4 (c 2.22, EtOH)

Source of chirality: asymmetric synthesis

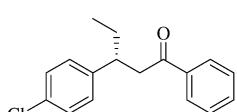


C₁₈H₁₇F₃O
(+) -3-(4-(Trifluoromethyl)phenyl)-1-phenylpentan-1-one

Ee = 70%

[α]_D²⁵ = +4.2 (c 1.92, EtOH)

Source of chirality: asymmetric synthesis



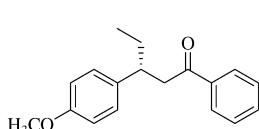
C₁₇H₁₇ClO
(R) -3-(4-Chlorophenyl)-1-phenylpentan-1-one

Ee = 70%

[α]_D²⁵ = -1.8 (c 1.97, EtOH)

Source of chirality: asymmetric synthesis

Absolute configuration: (R)



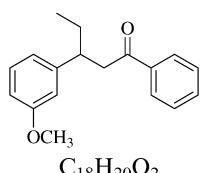
C₁₈H₂₀O₂
(R) -3-(4-Methoxyphenyl)-1-phenylpentan-1-one

Ee = 76%

[α]_D²⁵ = -12.4 (c 1.49, EtOH)

Source of chirality: asymmetric synthesis

Absolute configuration: (R)

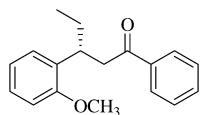
 $C_{18}H_{20}O_2$

(-)-3-(3-Methoxyphenyl)-1-phenylpentan-1-one

Ee = 80%

 $[\alpha]_D^{25} = -3.4$ (*c* 2.06, EtOH)

Source of chirality: asymmetric synthesis

 $C_{18}H_{20}O_2$

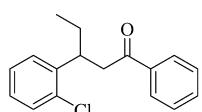
(R)-3-(2-Methoxyphenyl)-1-phenylpentan-1-one

Ee = 66%

 $[\alpha]_D^{25} = -5.7$ (*c* 1.80, EtOH)

Source of chirality: asymmetric synthesis

Absolute configuration: (R)

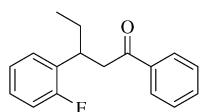
 $C_{17}H_{17}ClO$

(+)-3-(2-Chlorophenyl)-1-phenylpentan-1-one

Ee = 50%

 $[\alpha]_D^{25} = +16.4$ (*c* 1.30, EtOH)

Source of chirality: asymmetric synthesis

 $C_{17}H_{17}FO$

(+)-3-(2-Fluorophenyl)-1-phenylpentan-1-one

Ee = 76%

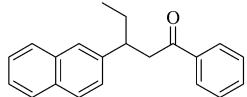
 $[\alpha]_D^{25} = +10.0$ (*c* 2.19, EtOH)

Source of chirality: asymmetric synthesis

Ee = 78%

 $[\alpha]_D^{25} = +1.1$ (*c* 1.99, EtOH)

Source of chirality: asymmetric synthesis

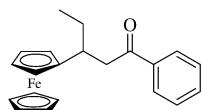
 $C_{21}H_{20}O$

(+) -3-(Naphthalen-2-yl)-1-phenylpentan-1-one

Ee = 56%

 $[\alpha]_D^{25} = +42.9$ (*c* 0.84, EtOH)

Source of chirality: asymmetric synthesis

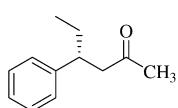
 $C_{21}H_{22}FeO$

(+) -3-Ferrocenyl-1-phenylpentan-1-one

Ee = 22%

 $[\alpha]_D^{25} = -3.5$ (*c* 1.61, EtOH)

Source of chirality: asymmetric synthesis

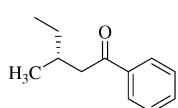
Absolute configuration: (*R*) $C_{14}H_{22}O$

(R)-4-Phenylhexan-2-one

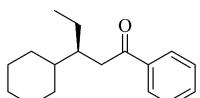
Ee = 60%

 $[\alpha]_D^{25} = -10.4$ (*c* 1.87, Et₂O)

Source of chirality: asymmetric synthesis

Absolute configuration: (*R*) $C_{14}H_{22}O$

(R)-3-Methyl-1-phenylpentan-1-one



$C_{17}H_{24}O$
(*S*)-3-Cyclohexyl-1-phenylpentan-1-one

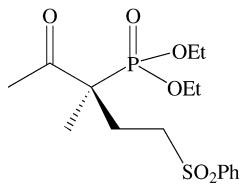
Ee = 70%

 $[\alpha]_D^{25} = +0.7$ (*c* 1.54, EtOH)

Source of chirality: asymmetric synthesis

Absolute configuration: (*S*)

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$C_{16}H_{25}O_6PS$
Diethyl (*S*)-[2-(2-benzenesulfonylethyl)-3-oxo-but-2-yl]-phosphonate

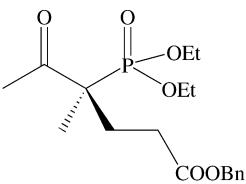
Ee = 94%

 $[\alpha]_D^{20} = -26$ (*c* 2.0, CH_2Cl_2)

Source of chirality: asymmetric synthesis

Absolute configuration: (*S*)

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$C_{18}H_{28}O_6P$
Diethyl (*S*)-[2-(2-benzyloxycarbonylethyl)-3-oxo-but-2-yl]-phosphonate

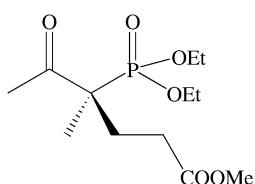
Ee = 88%

 $[\alpha]_D^{20} = +11$ (*c* 2.0, CH_2Cl_2)

Source of chirality: asymmetric synthesis

Absolute configuration: (*S*)

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$C_{12}H_{23}O_6P$
Diethyl (*S*)-[2-(2-methoxycarbonylethyl)-3-oxo-but-2-yl]-phosphonate

Ee = 88%

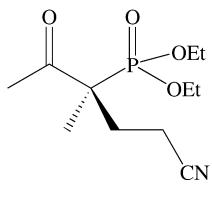
 $[\alpha]_D^{20} = -10$ (*c* 1.9, CH_2Cl_2)

Source of chirality: asymmetric synthesis

Absolute configuration: (*S*)

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Diethyl (S)-[2-(2-cyanoethyl)-3-oxo-but-2-yl]-phosphonate

Ee = 85%

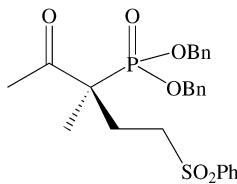
[α]_D²⁰ = -45 (c 1.5, CH₂Cl₂)

Source of chirality: asymmetric synthesis

Absolute configuration: (S)

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Tetrahedron: Asymmetry 18 (2007) 685



Dibenzyl (S)-[2-(2-benzenesulfonylethyl)-3-oxo-but-2-yl]-phosphonate

Ee = 70%

[α]_D²⁰ = +8 (c 1.0, CH₂Cl₂)

Source of chirality: asymmetric synthesis

Absolute configuration: (S)