## STEREOCHEMISTRY ABSTRACTS

































J. Touet, C. Le Grumelec, F. Huet and E. Brown Et,, CH-CH<sub>2</sub>OH NHCOCF<sub>3</sub> C<sub>6</sub>H<sub>10</sub>F<sub>3</sub>NO<sub>2</sub> (R)-(+)-[1-(hydroxymethyl)propyl]tri-fluoroacetamide Tetrahedron: Asymmetry 1993, 4, 1469

**m.p. 90°**C

 $[\alpha]_{D}+22$  (c=1, MeOH) ce: 100% Chiral source : (R)-(-)-2-aminobutan-1-ol Absolute configuration : R

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Et,, CH-CH<sub>2</sub>OH NHCH<sub>2</sub>CF<sub>3</sub>

C<sub>6</sub>H<sub>12</sub>F<sub>3</sub>NO (R)-(-)-2-(2,2,2-trifluoroethylamino)butan-1-ol Tetrahedron: Asymmetry 1993, 4, 1469

 $[\alpha]_{D}$ -9.7 (c=6, MeOH) ce: 100% Chiral source : (R)-(-)-2-aminobutan-1-ol Absolute configuration : R

J. Touet, C. Le Grumelec, F. Huet and E. Brown Et,,, CH-CH<sub>2</sub>OH

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,,,,,,Et

H<sub>2</sub>CF<sub>3</sub>

CH<sub>2</sub>

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Tetrahedron: Asymmetry 1993, 4, 1469

m.p. 65°C  $[\alpha]_{D}$ -23.7 (c=3.25, MeOH) cc: 100% Chiral source : (R)-(-)-2-aminobutan-1-ol Absolute configuration : R

C11H16FNO

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(R)-(-)-2-(2-fluorobenzylamino)butan-1-ol

Tetrahedron: Asymmetry 1993, 4, 1469

 $[\alpha]_D+3$  (c=2, MeOH) ee: 100% Chiral source : (R)-(-)-2-aminobutan-1-ol Absolute configuration : R

C15H18F3NO2

Ph

NH

ĊH2

(R)-(+)-N-(2,2,2-trifluoroethyl)-N-[1-(hydroxymethyl)propyl]cinnamamide

















Tetrahedron: Asymmetry 1993, 4, 1501

Wei-Shan Zhou,\* Xue-You Zhu, and Jie-Fei Cheng



E.e.=91%(by <sup>1</sup>HNMR of MTPA amide of the corresponding  $\alpha$ -furfuryl amine)  $|\alpha|_D = -78.2$ (c 0.5, EtOH) Source of Chirality: Sharpless kinetic resolution Absolute Configuration: S

(S)-N-Benzoyl-1-(α-furyl)-3-methylbutylamine

































R. Kula	Tetrahedron: Asymmetry 1993, 4, 1683
Absolute configuration	: <i>S</i>
E.e.	: 99% (GC, $\gamma$ -cyclodextrin phase)
Source of chirality	: enzymatic reduction
-	
. Kula	Tetrahedron: Asymmetry 1993, 4, 1683
Absolute configuration	: <b>S</b>
E.e.	: >99% (GC, y-cyclodextrin phase)
Source of chirality	: enzymatic reduction
	Tatrahadran: 4 symmetry 1993, 4, 1683
47 1	1 En uneuron. Asymmetry 1990, 1, 1000
. Kula	1en aneuron. Asynancu y 1990, 1, 1000
. Kula	· 28 35
Absolute configuration	: 2R, 3S
. Kula Absolute configuration D.e.	$2R, 3S$ $> 95\% (GC, \gamma-cyclodextrin phase)$ $+7 (c = 1, CHCl_2)$
. Kula Absolute configuration D.e. [α] <sub>D</sub>	: $2R$ , $3S$ : > 95% (GC, $\gamma$ -cyclodextrin phase) : +7 (c = 1, CHCl <sub>3</sub> ) : enzymatic reduction
<ul> <li>Kula</li> <li>Absolute configuration</li> <li>D.e.</li> <li>[α]<sub>D</sub></li> <li>Source of chirality</li> </ul>	<ul> <li>2R, 3S</li> <li>&gt; 95% (GC, γ-cyclodextrin phase)</li> <li>+7 (c = 1, CHCl<sub>3</sub>)</li> <li>enzymatic reduction</li> </ul>
<ul> <li>Kula</li> <li>Absolute configuration</li> <li>D.e.</li> <li>[α]<sub>D</sub></li> <li>Source of chirality</li> </ul>	<ul> <li>2R, 3S</li> <li>&gt; 95% (GC, γ-cyclodextrin phase)</li> <li>+7 (c = 1, CHCl<sub>3</sub>)</li> <li>enzymatic reduction</li> </ul>
Kula         Absolute configuration         D.e.         [α]D         Source of chirality         .         Kula	<ul> <li>2R, 3S</li> <li>&gt; 95% (GC, γ-cyclodextrin phase)</li> <li>+7 (c = 1, CHCl<sub>3</sub>)</li> <li>enzymatic reduction</li> </ul> Tetrahedron: Asymmetry 1993, 4, 1683
. Kula Absolute configuration D.e. [α] <sub>D</sub> Source of chirality 2. Kula	<ul> <li>2R, 3S</li> <li>&gt; 95% (GC, γ-cyclodextrin phase)</li> <li>+7 (c = 1, CHCl<sub>3</sub>)</li> <li>enzymatic reduction</li> </ul> Tetrahedron: Asymmetry 1993, 4, 1683
Kula Absolute configuration D.e. [α]D Source of chirality	<ul> <li>2R, 3S</li> <li>&gt; 95% (GC, γ-cyclodextrin phase)</li> <li>+7 (c = 1, CHCl<sub>3</sub>)</li> <li>enzymatic reduction</li> </ul> Tetrahedron: Asymmetry 1993, 4, 1683
<ul> <li>Kula</li> <li>Absolute configuration</li> <li>D.e.</li> <li>[α]<sub>D</sub></li> <li>Source of chirality</li> <li>Kula</li> <li>Absolute configuration</li> </ul>	<ul> <li>2R, 3S</li> <li>&gt; 95% (GC, γ-cyclodextrin phase)</li> <li>+7 (c = 1, CHCl<sub>3</sub>)</li> <li>enzymatic reduction</li> </ul> Tetrahedron: Asymmetry 1993, 4, 1683
<ul> <li>Kula</li> <li>Absolute configuration</li> <li>D.e.</li> <li>[α]<sub>D</sub></li> <li>Source of chirality</li> <li>R. Kula</li> <li>Absolute configuration</li> <li>E.e.</li> </ul>	<ul> <li>2R, 3S</li> <li>&gt; 95% (GC, γ-cyclodextrin phase)</li> <li>+7 (c = 1, CHCl<sub>3</sub>)</li> <li>enzymatic reduction</li> </ul> Tetrahedron: Asymmetry 1993, 4, 1683 : S : > 99% (GC, γ-cyclodextrin phase)
<ul> <li>Kula</li> <li>Absolute configuration</li> <li>D.e.</li> <li>[α]<sub>D</sub></li> <li>Source of chirality</li> <li>X. Kula</li> <li>Absolute configuration</li> <li>E.e.</li> <li>Source of chirality</li> </ul>	<ul> <li>2R, 3S</li> <li>&gt; 95% (GC, γ-cyclodextrin phase)</li> <li>+7 (c = 1, CHCl<sub>3</sub>)</li> <li>enzymatic reduction</li> </ul> Tetrahedron: Asymmetry 1993, 4, 1683 S <ul> <li>&gt; 99% (GC, γ-cyclodextrin phase)</li> <li>enzymatic reduction</li> </ul>
	<ul> <li>Kula</li> <li>Absolute configuration</li> <li>E.e.</li> <li>Source of chirality</li> <li>Kula</li> <li>Absolute configuration</li> <li>E.e.</li> <li>Source of chirality</li> </ul>





Tetrahedron: Asymmetry 1993, 4, 1703

D. O'Hagan, N. A. Zaidi and R. B. Lamont



 $C_{11}H_9F_3O_2$ γ-Phenyl-γ-(trifluoromethyl)butyrolactone

Tetrahedron: Asymmetry 1993, 4, 1703

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C<sub>10</sub>H<sub>9</sub>F<sub>3</sub>O 1,1,1-Trifluoro-2-phenylbut-3-ene-2-ol

E.e. = >98%

 $[\alpha]_D^{20} = -63.2$  (c0.9, CH<sub>2</sub>Cl<sub>2</sub>)

 $[\alpha]_D^{20} = -58.6$  (c0.6, CH<sub>2</sub>Cl<sub>2</sub>)

Absolute configuration (R) (follows from lipase resolution)

Source of chirality: Lipase resolution.

E.e. = >98%

Source of chirality: Lipase resolution. Absolute configuration (S) (follows from lipase resolution)

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E.e. = >98%  $[\alpha]_D^{20} = -48.8$  (c1.6, CH<sub>2</sub>Cl<sub>2</sub>)

Source of chirality: Lipase resolution. Absolute configuration (2R,3S) (follows from lipase resolution)

C10H9F3O2 1,1,1-Trifluoro-2-phenyl-3,4-epoxybutane-2-ol

Tetrahedron: Asymmetry 1993, 4, 1703

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E.e. = >98%  $[\alpha]_D^{20} = -80$  (c0.44, CH<sub>2</sub>Cl<sub>2</sub>)

Source of chirality: Lipase resolution. Absolute configuration (2R,3S) (follows from lipase resolution)

C11H11F3O2 1,1,1-Trifluoro-2-methoxy-2-phenyl-3,4-epoxybutane