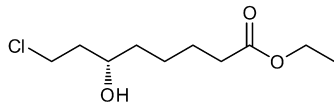


## Stereochemistry abstracts

Rui-Jie Chen, Gao-Wei Zheng\*, Yan Ni, Bu-Bing Zeng, Jian-He Xu\*

*Tetrahedron: Asymmetry* 25 (2014) 1501



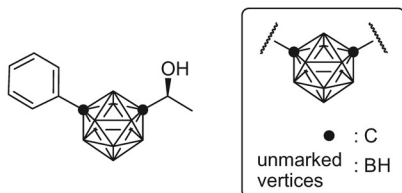
$C_{10}H_{19}ClO_3$

Ethyl (*S*)-8-chloro-6-hydroxyoctanoate

$[\alpha]_D^{22} = +19.8$  (c 1.0,  $CHCl_3$ )  
Source of chirality: enzymatic reduction  
Absolute configuration: (*S*)

Shuichi Mori, Ryohei Takagaki, Shinya Fujii, Mio Matsumura, Aya Tanatani, Hiroyuki Kagechika\*

*Tetrahedron: Asymmetry* 25 (2014) 1505



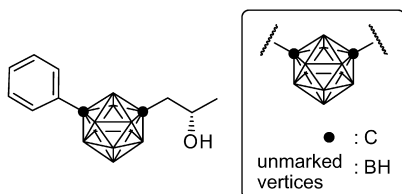
$C_{10}H_{20}B_{10}O$

(*1S*)-1-(7-Phenyl-1,7-dicarba-*closo*-dodecaboran-1-yl)ethanol

ee >99% (HPLC)  
 $[\alpha]_D^{25} = -12.3$  (c 0.54,  $CH_2Cl_2$ )  
Source of chirality: lipase-catalyzed optical resolution  
Absolute configuration: (*1S*)

Shuichi Mori, Ryohei Takagaki, Shinya Fujii, Mio Matsumura, Aya Tanatani, Hiroyuki Kagechika\*

*Tetrahedron: Asymmetry* 25 (2014) 1505



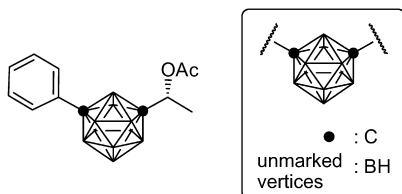
$C_{11}H_{22}B_{10}O$

(*2S*)-1-(7-Phenyl-1,7-dicarba-*closo*-dodecaboran-1-yl)-2-propanol

ee >99% (HPLC)  
 $[\alpha]_D^{25} = +23.5$  (c 0.3,  $CH_2Cl_2$ )  
Source of chirality: lipase-catalyzed optical resolution  
Absolute configuration: (*1S*)

Shuichi Mori, Ryohei Takagaki, Shinya Fujii, Mio Matsumura, Aya Tanatani, Hiroyuki Kagechika\*

*Tetrahedron: Asymmetry* 25 (2014) 1505



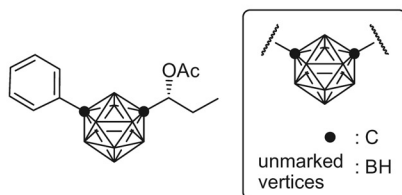
$C_{12}H_{22}B_{10}O_2$

(*1R*)-1-(7-Phenyl-1,7-dicarba-*closo*-dodecaboran-1-yl)ethyl acetate

ee >99% (HPLC)  
 $[\alpha]_D^{25} = +68.0$  (c 0.42,  $CH_2Cl_2$ )  
Source of chirality: lipase-catalyzed optical resolution  
Absolute configuration: (*1R*)

Shuichi Mori, Ryohei Takagaki, Shinya Fujii, Mio Matsumura, Aya Tanatani, Hiroyuki Kagechika\*

*Tetrahedron: Asymmetry* 25 (2014) 1505



$C_{13}H_{24}B_{10}O_2$

(1R)-1-(7-Phenyl-1,7-dicarba-closo-dodecaboran-1-yl)propan-1-yl acetate

ee >99% (HPLC)

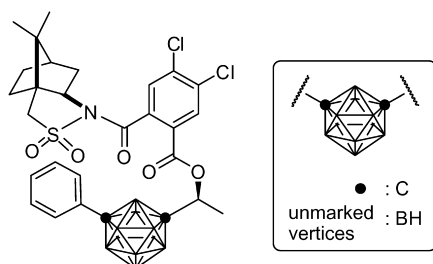
$[\alpha]_D^{25} = +52.9$  (c 0.22,  $CH_2Cl_2$ )

Source of chirality: lipase-catalyzed optical resolution

Absolute configuration: (1R)

Shuichi Mori, Ryohei Takagaki, Shinya Fujii, Mio Matsumura, Aya Tanatani, Hiroyuki Kagechika\*

*Tetrahedron: Asymmetry* 25 (2014) 1505



$C_{28}H_{37}B_{10}Cl_2NO_5S$

(1S)-1-(7-Phenyl-1,7-dicarba-closo-dodecaboran-1-yl)ethyl 2-((-)-10,2-camphorsultam-N-carbonyl)-4,5-dichlorobenzoate

ee >99% (HPLC)

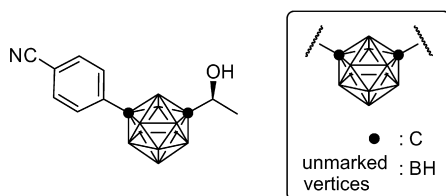
$[\alpha]_D^{25} = -82.1$  (c 0.2,  $CH_2Cl_2$ )

Source of chirality: lipase-catalyzed optical resolution

Absolute configuration: (1S) (1S, 2R, 4R)

Shuichi Mori, Ryohei Takagaki, Shinya Fujii, Mio Matsumura, Aya Tanatani, Hiroyuki Kagechika\*

*Tetrahedron: Asymmetry* 25 (2014) 1505



$C_{11}H_{19}B_{10}NO$

(1S)-1-(7-(4-Cyanophenyl)-1,7-dicarba-closo-dodecaboran-1-yl)ethanol

ee >99% (HPLC)

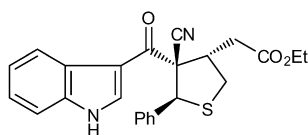
$[\alpha]_D^{25} = -10.8$  (c 1.0,  $CH_2Cl_2$ )

Source of chirality: lipase-catalyzed optical resolution

Absolute configuration: (1S)

Ying-He Li, Bo-Liang Zhao, Yu Gao, Da-Ming Du\*

*Tetrahedron: Asymmetry* 25 (2014) 1513



$C_{24}H_{22}N_2O_3S$

(3S,4R,5S)-[4-Cyano-4-(1H-indole-3-carbonyl)-5-phenyl-tetrahydrothiophen-3-yl]-acetic acid ethyl ester

ee = 63%, dr = 16:1

$[\alpha]_D^{25} = -28.3$  (c 1.76,  $CH_2Cl_2$ )

Source of chirality: Asymmetric synthesis

Absolute configuration: (3S,4R,5S)

Download English Version:

<https://daneshyari.com/en/article/1345052>

Download Persian Version:

<https://daneshyari.com/article/1345052>

[Daneshyari.com](https://daneshyari.com)