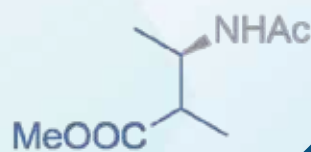
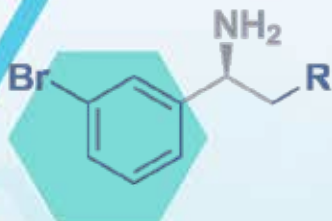
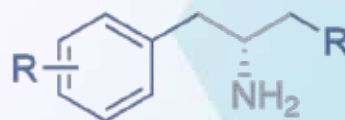
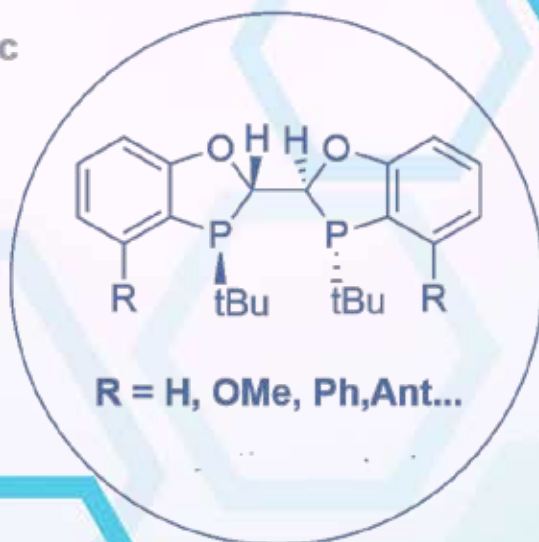
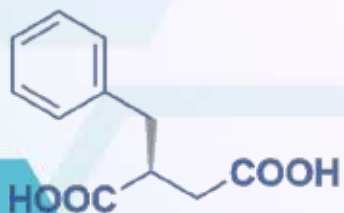
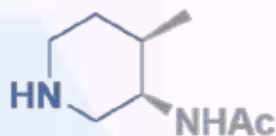
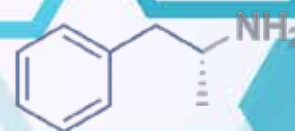
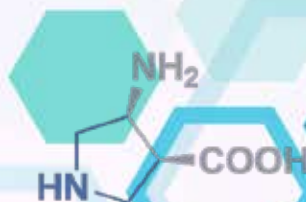
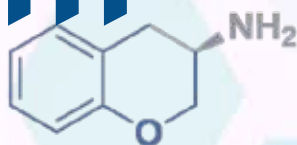


# 3AChem<sup>TM</sup>



## 膦配体

## PHOSPHINE LIGANDS



## 关于艾览

艾览（上海）化工科技有限公司成立于 2016 年 12 月，是一家致力于研发和生产精细化学品和高新材料的综合性科研服务公司。公司通过 ISO9001 体系认证，在北京、上海、广州、天津、武汉等地设有分公司和物流中心，通过高效的流程和强大的资源整合能力，为中国广大科研工作者和工业客户提供一站式的定制化服务。

公司拥有一支具有创业精神的专业化团队，经验丰富，开放创新。本着创世界一流科研服务公司的伟大理想，和让中国化学走向世界的光荣使命，创立“3A 化学”。新品牌“3A 化学”针对客户实际需求，以工匠精神，追求卓越品质，本着一切以客户为中心的原则，为世界的科技工作者提供最常用和最前沿的化学产品。目前，“3A 化学”已经建立 3AChem™ 和 3AMaterials™ 两大产品系列，产品种类多达 20000，全面覆盖有机化学、材料科学、分析化学、及生命科学四大领域。

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**更多产品请访问：[www.3Achem.com](http://www.3Achem.com) 或致电：400-668-9898**

# 膦配体

3A化学为您提供60多种结构新颖的手性螺环膦配体及P-手性膦配体

膦配体的设计和合成，在催化反应和合成中是一个重要的研究课题。

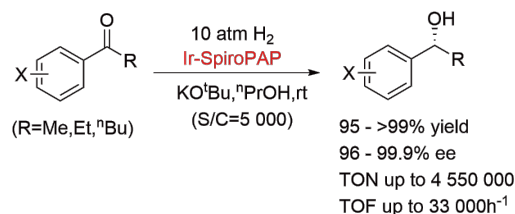
手性膦配体在过渡金属介入下的不对称反应对反应活性及对映选择性起着决定性的作用，其在医药、农药、香料和其他精细化工领域亦是构建光学纯手性化合物的最有效方法。从理论研究和工业生产上，膦配体都具有广泛的应用。

- 优秀的反应活性，反应TON/TOF高
- 优秀的对映选择性，多数ee ≥ 95%
- 广泛的底物适用性，适用于Suzuki、Sonogashira、C-N Cross-Coupling等类型的反应

## 一、手性螺环膦配体

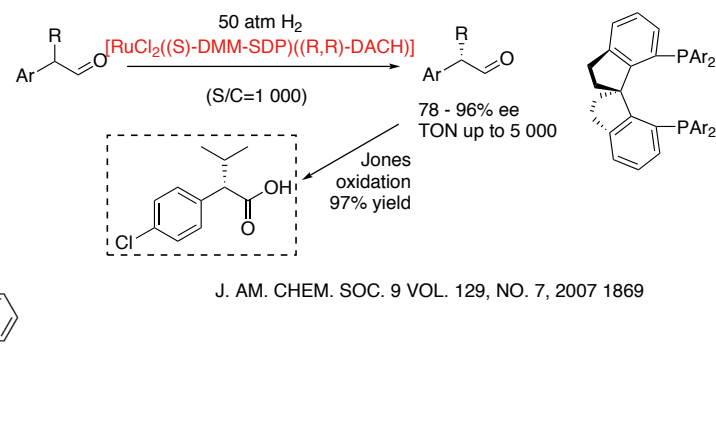
3A化学提供的原创性手性螺环膦配体用于不对称氢化反应，实现了潜手性酮、 $\alpha$ -取代羰基化合物、不饱和羧酸、非保护烯胺等四大类20多种不对称氢化反应。

### 简单酮的超高效不对称催化氢化

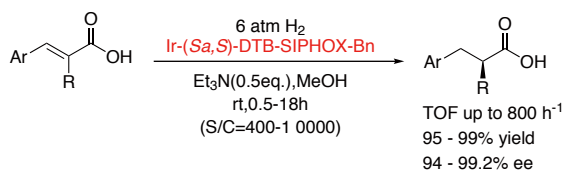


Angew. Chem. Int. Ed. 2011, 50, 7329 -7332

### 芳基醛的不对称催化氢化

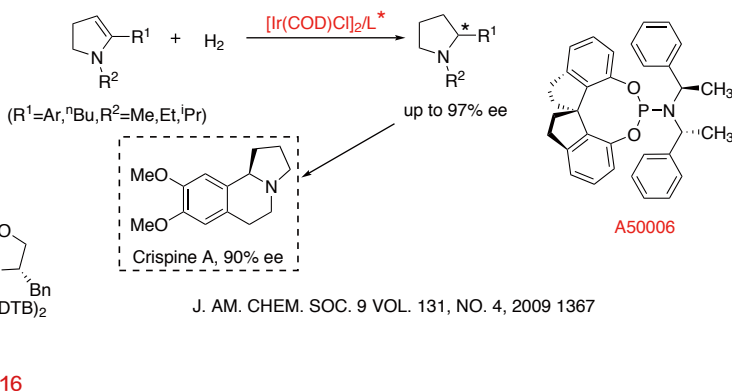


### 不饱和羧酸的不对称催化氢化



J. AM. CHEM. SOC. 9 VOL. 130, NO. 27, 2008 8585

### 非保护烯胺的不对称催化氢化

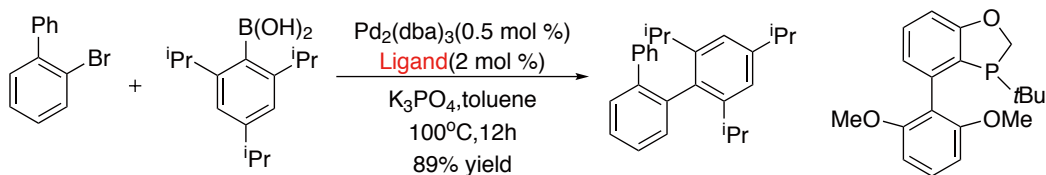


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## 二、P-手性磷配体

此类配体具有显著的结构特征，在大位阻偶联、不对称偶联、不对称环化、以及不对称催化氢化中表现出优异的效率，为复杂天然产物和药物的高效合成提供了实用、绿色的催化反应方法。

**大位阻Suzuki偶联:** BI-DIME在Pd催化交叉偶合上表现出广谱的应用性，对位阻很大的底物表现出特效性。

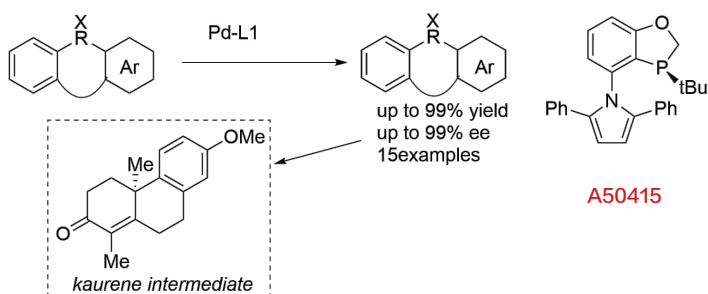


Angew. Chem., Int. Ed. 2010, 49, 5879-5883.  
(Highlighted as;Synfact of the month; by Synfacts in Nov. 2010)

A50398

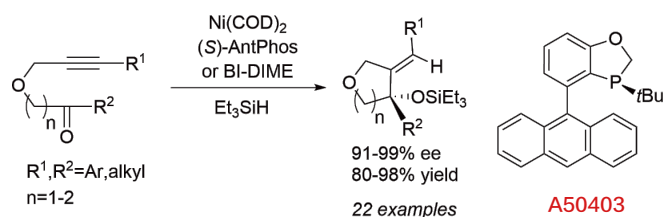
**不对称去芳偶联:** Pd介入下的此类配体可实现含有手性

季碳中心的菲酮类三环结构的高效不对称构筑，为萜类天然产物和甾体类药物分子高效合成提供了新的思路。



Angew. Chem. Int. Ed. 2015, 54, 3033-3037

**不对称环化:** 利用这类手性配体，可以高效的合成一系列含手性叔醇的呋喃类化合物，实现联苯环辛二烯骨架的高效构筑。

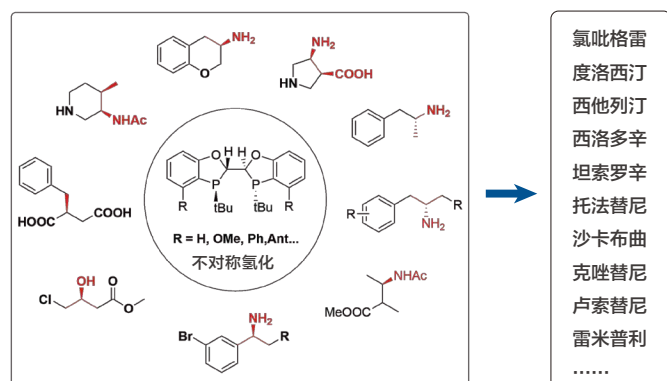


Angew. Chem., Int. Ed. 2015, 54, 2520-2524. (highlighted by Synfacts).

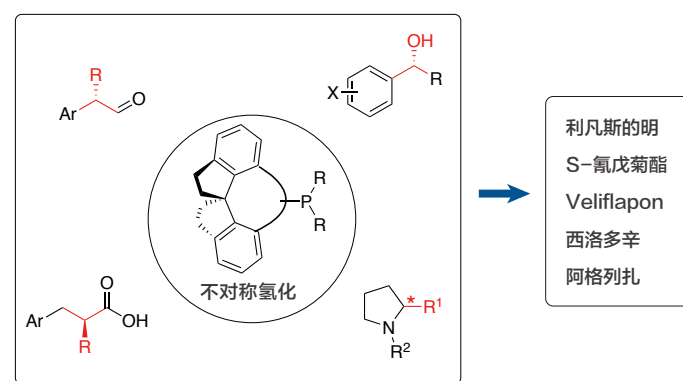
A50403

## 三、应用

**应用一**

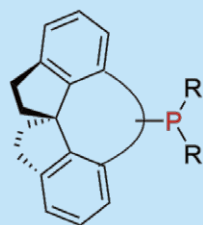


**应用二**

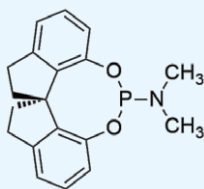


3A 轻松买 放心用

## 骨架1

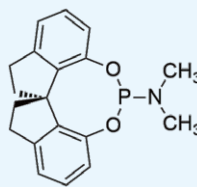


443965-14-8 98%, 99% ee



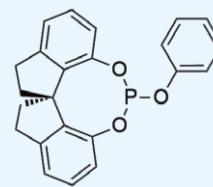
货号: A50001  
(R)-SIPHOS

443965-10-4 98%, 99% ee



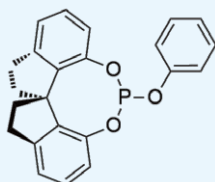
货号: A50002  
(S)-SIPHOS

656233-53-3 98%, 99% ee



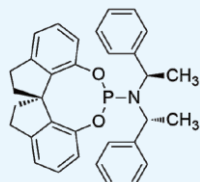
货号: A50003  
(R)-ShiP

885701-71-3 98%, 99% ee



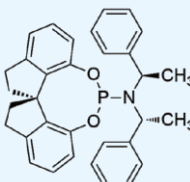
货号: A50004  
(S)-ShiP

500997-69-3 98%, 99% ee



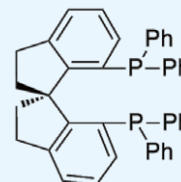
货号: A50005  
(Ra,R,R)-SIPHOS-PE

500997-70-6 98%, 99% ee



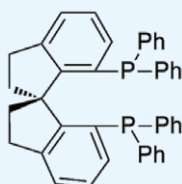
货号: A50006  
(Sa,R,R)-SIPHOS-PE

917377-74-3 98%, 99% ee



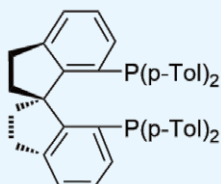
货号: A50007  
(R)-SDP

528521-86-0 98%, 99% ee



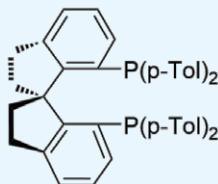
货号: A50008  
(S)-SDP

528521-87-1 98%, 99% ee



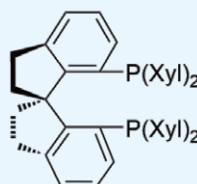
货号: A50009  
(R)-Tol-SDP

817176-80-0 98%, 99% ee



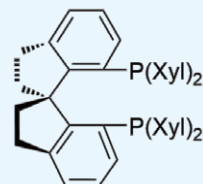
货号: A50010  
(S)-Tol-SDP

917377-75-4 98%, 99% ee



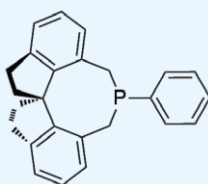
货号: A50011  
(R)-Xyl-SDP

528521-89-3 98%, 99% ee



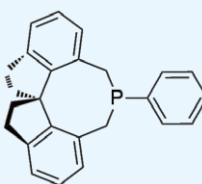
货号: A50012  
(S)-Xyl-SDP

856407-37-9 98%, 99% ee



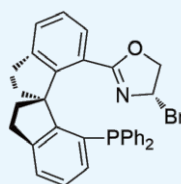
货号: A50013  
(R)-SITCP

885701-78-0 98%, 99% ee



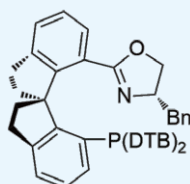
货号: A50014  
(S)-SITCP

913829-88-6 98%, 99% ee



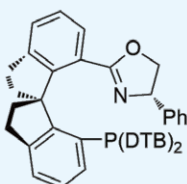
货号: A50015  
(Sa,S)-Ph-Bn-SIPHOX

1040274-10-9 98%, 99% ee



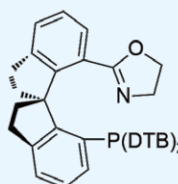
货号: A50016  
(Sa,S)-DTB-Bn-SIPHOX

1040274-12-1 98%, 99% ee



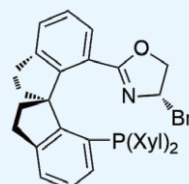
货号: A50017  
(Sa,S)-DTB-Ph-SIPHOX

1040274-18-7 98%, 99% ee



货号: A50018  
(S)-DTB-SIPHOX

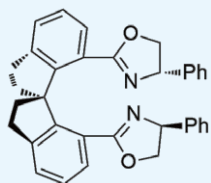
913829-90-0 98%, 99% ee



货号: A50019  
(Sa,S)-Xyl-Bn-SIPHOX

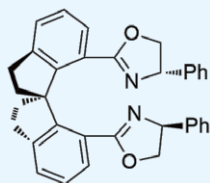


940880-69-3 98%, 99% ee



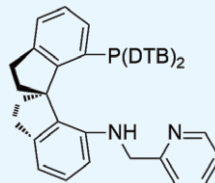
货号: A50020  
(Sa,S,S)-SpiroBOX

890090-21-8 98%, 99% ee



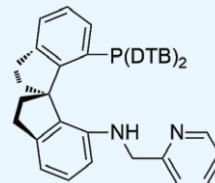
货号: A50021  
(Ra,S,S)-SpiroBOX

1298133-21-7 98%, 99% ee



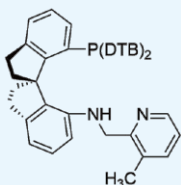
货号: A50022  
(R)-DTB-SpiroPAP

1415636-82-6 98%, 99% ee



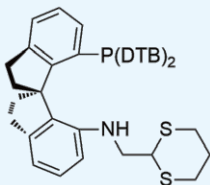
货号: A50023  
(S)-DTB-SpiroPAP

1298133-36-4 98%, 99% ee



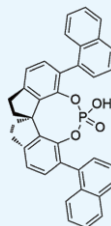
货号: A50024  
(R)-DTB-SpiroPAP-3-Me

1809609-53-7 98%, 99% ee



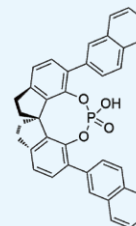
货号: A50025  
(R)-DTB-SpiroSAP

1297613-73-0 98%, 99% ee



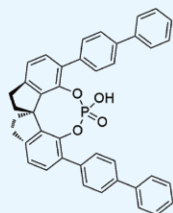
货号: A50026  
(R)-1-NaP-SPA

1297613-74-1 98%, 99% ee



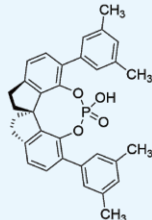
货号: A50027  
(R)-2-NaP-SPA

1297613-77-4 98%, 99% ee



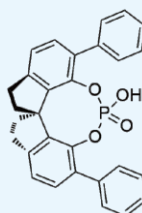
货号: A50028  
(R)-BiPh-SPA

1297613-75-2 98%, 99% ee



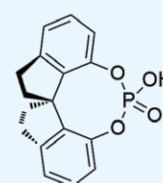
货号: A50029  
(R)-Xyl-SPA

1297613-72-9 98%, 99% ee



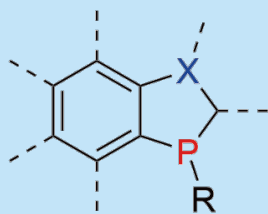
货号: A50030  
(R)-Ph-SPA

1352810-35-5 98%, 99% ee

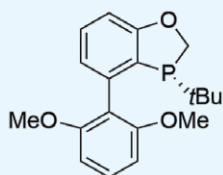


货号: A50031  
(R)-SPA

## 骨架2

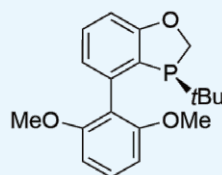


1338454-03-7 97%, 99% ee



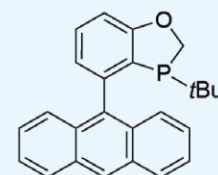
货号: A50399  
(R)-BIDIME

1373432-09-7 97%, 99% ee



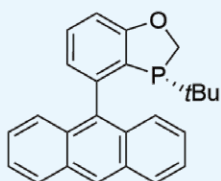
货号: A50400  
(S)-BIDIME

1268693-24-8 97%



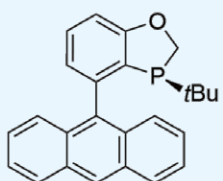
货号: A50401  
rac-AntPhos

1456816-37-7 97%, 99% ee



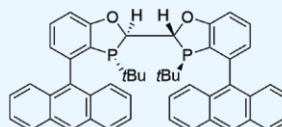
货号: A50402  
(R)-AntPhos

1807740-34-6 97%, 99% ee



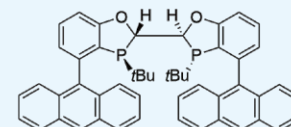
货号: A50403  
(S)-AntPhos

1884680-45-8 97%, 99% ee



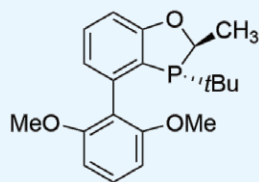
货号: A50404  
(2R,2R',3R,3R')-WingPhos

1435940-19-4 97%, 99% ee



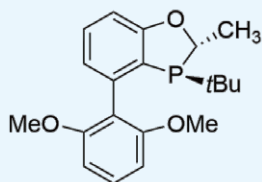
货号: A50405  
(2S,2S',3S,3S')-WingPhos

1477517-18-2 97%, 99% ee



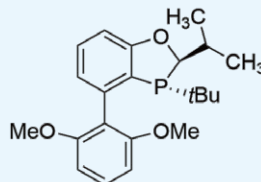
货号: A50406  
(2R,3R)-Me-BIDIME

1373432-11-1 97%, 99% ee



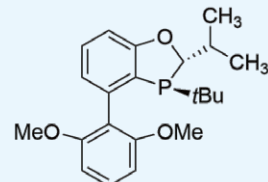
货号: A50407  
(2S,3S)-Me-BIDIME

1477517-19-3 97%, 99% ee



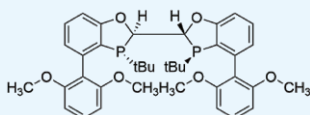
货号: A50408  
(2R,3R)-iPr-BIDIME

1477517-21-7 97%, 99% ee



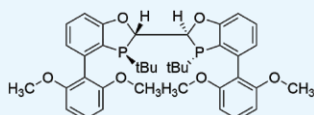
货号: A50409  
(2S,3S)-iPr-BIDIME

1884680-48-1 97%, 99% ee



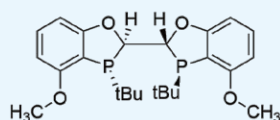
货号: A50410  
(2R,2'R,3R,3'R)-Bis-BIDIME

1435940-21-8 97%, 99% ee



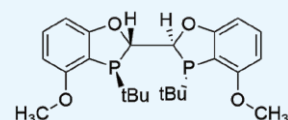
货号: A50411  
(2S,2'S,3S,3'S)-Bis-BIDIME

1228758-57-3 97%, 99% ee



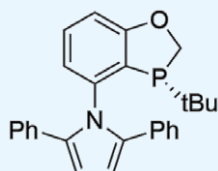
货号: A50412  
(2R,2'R,3R,3'R)-MeO-BIBOP

1202033-19-9 97%, 99% ee



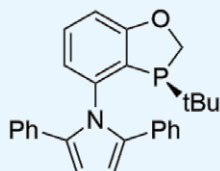
货号: A50413  
(2S,2'S,3S,3'S)-MeO-BIBOP

1884457-40-2 97%, 99% ee



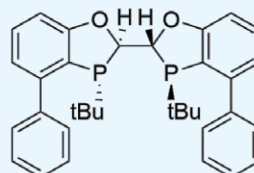
货号: A50414

1683581-58-9 97%, 99% ee



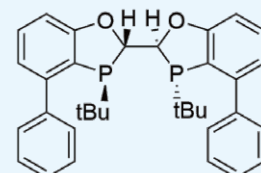
货号: A50415

97%, 99% ee



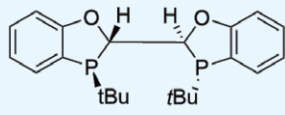
货号: A50416  
(2R,2'R,3R,3'R)-Ph-BIBOP

1202033-21-3 97%, 99% ee



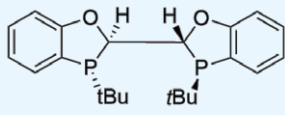
货号: A50417  
(2S,2'S,3S,3'S)-Ph-BIBOP

1202033-17-7 97%, 99% ee



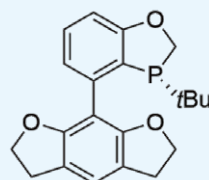
货号: A50418  
(2S,2'S,3S,3'S)-BIBOP

1610785-35-7 97%, 99% ee



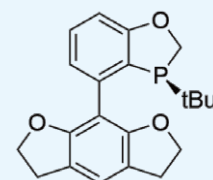
货号: A50419  
(2R,2'R,3R,3'R)-BIBOP

1835717-07-1 97%, 99% ee



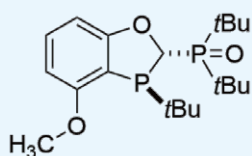
货号: A50420

97%, 99% ee



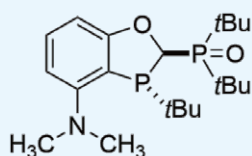
货号: A50421

1788085-46-0 97%



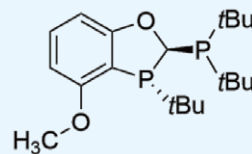
货号: A50422

1788085-47-1 97%



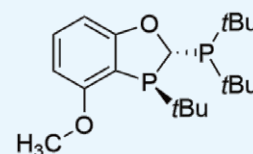
货号: A50423

1215081-28-9 97%, 99% ee



货号: A50424  
(2S,3R)-MeO-POP

97%, 99% ee



货号: A50425  
(2R,3S)-MeO-POP

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