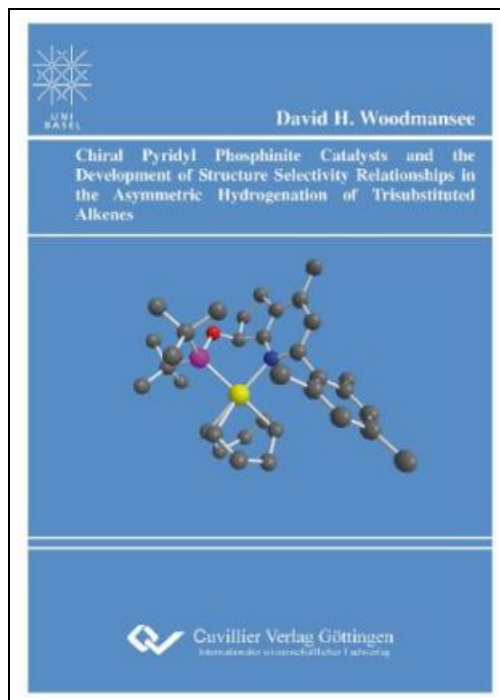


## Chiral Pyridyl Phosphinite Catalysts and the Development of Structure Selectivity Relationships in the Asymmetric Hydrogenation of Trisubstituted Alkenes



Filesize: 3.64 MB

### Reviews

*Extremely helpful to all of category of men and women. it had been writtern extremely completely and helpful. You are going to like the way the blogger compose this publication.*

**(Johathan Haag)**

## CHIRAL PYRIDYL PHOSPHINITE CATALYSTS AND THE DEVELOPMENT OF STRUCTURE SELECTIVITY RELATIONSHIPS IN THE ASYMMETRIC HYDROGENATION OF TRISUBSTITUTED ALKENES

[DOWNLOAD PDF](#)

Cuvillier Verlag Sep 2010, 2010. Taschenbuch. Condition: Neu. Neuware - The current trend in developing asymmetric catalysts is towards creating specialized molecules with tailored functions for increased selectivity in classes of substrates rather than general catalysts capable of broad application. In addition, the capacity to generate groups of catalysts with incremental changes to overall structure allows for a more detailed analysis of contributions to the structure selectivity relationships for a variety of substrates. This information can then be used to identify ideal catalysts or improve selectivity and activity of for a particular system. Asymmetric hydrogenation of substituted alkenes with chiral iridium N,P complexes that were developed from the achiral Crabtree Complex have proven to be extraordinary selective and active catalysts. Screening a series of trisubstituted alkenes on 1st and 2nd generation catalysts indicated a strong enantioselectivity dependence on the phosphorus and pyridine substituents. In particular, the substituents in the ortho position of the pyridine ring were found to have significant control over the catalyst. The synthesis of the 3rd generation of chiral pyridyl phosphinite catalysts takes advantage of a flexible late phase incorporation of the functional groups which govern the selectivity of the asymmetric hydrogenation to span a range of steric and electronic properties. The screening of these catalysts in the asymmetric hydrogenation of several classes of trisubstituted alkenes provided clear insight to the factors controlling enantioselectivity which were proven to vary greatly with the nature of the substrate and catalyst. Several catalysts with exceptional selectivity were identified for multiple examples of trisubstituted alkenes which had proven difficult with previous system. 214 pp. Englisch.

[Read Chiral Pyridyl Phosphinite Catalysts and the Development of Structure Selectivity Relationships in the Asymmetric Hydrogenation of Trisubstituted Alkenes Online](#)[Download PDF Chiral Pyridyl Phosphinite Catalysts and the Development of Structure Selectivity Relationships in the Asymmetric Hydrogenation of Trisubstituted Alkenes](#)

## Other PDFs



### **Bully, the Bullied, and the Not-So Innocent Bystander: From Preschool to High School and Beyond: Breaking the Cycle of Violence and Creating More Deeply Caring Communities**

HarperCollins Publishers Inc, United States, 2016. Paperback. Book Condition: New. Reprint. 203 x 135 mm. Language: English . Brand New Book. An international bestseller, Barbara Coloroso's groundbreaking and trusted guide on bullying-including cyberbullying-arms parents...

[Download eBook »](#)



### **Two Treatises: The Pearle of the Gospell, and the Pilgrims Profession to Which Is Added a Glasse for Gentlewomen to Dresse Themselves By. by Thomas Taylor Preacher of Gods Word to the Towne of Reding. (1624-1625)**

Proquest, Eebo Editions, United States, 2010. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.EARLY HISTORY OF RELIGION. Imagine holding history in your hands. Now...

[Download eBook »](#)



### **Two Treatises: The Pearle of the Gospell, and the Pilgrims Profession to Which Is Added a Glasse for Gentlewomen to Dresse Themselves By. by Thomas Taylor Preacher of Gods Word to the Towne of Reding. (1625)**

Proquest, Eebo Editions, United States, 2010. Paperback. Book Condition: New. 246 x 189 mm. Language: English Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.EARLY HISTORY OF RELIGION. Imagine holding history in your hands. Now you...

[Download eBook »](#)



### **Accused: My Fight for Truth, Justice and the Strength to Forgive**

BenBella Books. Hardback. Book Condition: new. BRAND NEW, Accused: My Fight for Truth, Justice and the Strength to Forgive, Tonya Craft, Mark Dagostino, This is the true story of a woman who prevailed against the...

[Download eBook »](#)



### **The Princess and the Frog - Read it Yourself with Ladybird**

Paperback. Book Condition: New. Not Signed; A kind frog helps a princess and she makes him a promise. What happens when the king tells her that she has keep her promise? Read it yourself with...

[Download eBook »](#)