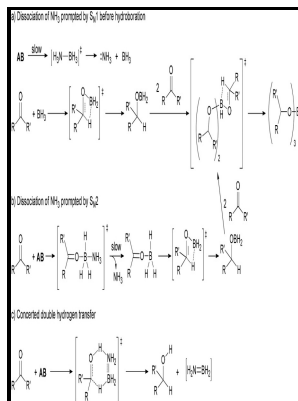


# Preparation and use of chiral borane Lewis acids.

University of Salford - Catalytic asymmetric aldol reactions. Use of a chiral (acyloxy)borane complex as a versatile Lewis



Description: -

-Preparation and use of chiral borane Lewis acids.

-

Research paper NE -- 215.

Zhizn' zamechatel'nykh liudei (Molodaia gvardiia (Firm)) -- 1978,

vyp. 7

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D83054Preparation and use of chiral borane Lewis acids.

Notes: PhD thesis, Chemistry and Applied Chemistry.

This edition was published in 1988



Filesize: 66.84 MB

Tags: #Chiral #Borane

## Defunctionalisation catalysed by boron Lewis acids

They concluded that the cationic Cu II -box complexes are superior to their Zn II counterparts as chiral Lewis acid catalysts for the imide Diels-Alder reactions 116b. Corey developed an asymmetric Diels-Alder approach to prostaglandin synthesis based on a chiral aluminum catalyst 46. The data clearly indicate the proximity of H1 to H a, Me1 to H b, and Me2 of t-butyl to Me1.

## Borane

Most preferably, the concentration of borohydride species in the borane-tetrahydrofuran complex is below approximately 0.

## Chiral borane complexes catalyse new synthesis opportunities

Of the two possible transition states leading to the cis-product, the syn-endo transition state A should be less favorable because of the steric repulsion in the sterically demanding titanium complex.

## Chiral borane complexes catalyse new synthesis opportunities

The reaction occurs via the favorable transition state assembly for one directional diene-approach from the site proximal to the sulfonyl amino group. Stabilized deuteroborane-tetrahydrofuran complex 2006-02-10 2010-07-06 Sigma-Aldrich Co. This review covers recent progress in chiral Lewis acids catalyzed Diels-Alder reactions 9,10.

## Chiral Lewis acid

A mixture of 3-pyridylaldimine 79 and Danishefsky diene was treated at -78 °C with the chiral boron complex derived from S -Binaphthol to obtain dihydropyridone 80 in 68% yield and 90% ee. Keywords: asymmetric Diels-Alder cycloaddition reaction, chiral Lewis acids, asymmetric catalysis, dienophile-Lewis acid complex Introduction Nature is asymmetric and molecular asymmetry in particular plays a crucial role in science and technology 1. Guinea pig ileum adds the amount effect curve that six kinds of medicines front and back make ACh, and the tension force

percentage change is seen shown in the Table.

### **Evans Aldol Reaction**

Chiral spiroborate esters catalyzed highly enantioselective direct aldol reaction.

### **CN103012231A**

Uncomplexed methacrolein and CAB catalyst must reside primarily in the s-trans conformation as shown by NOE difference spectra.

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