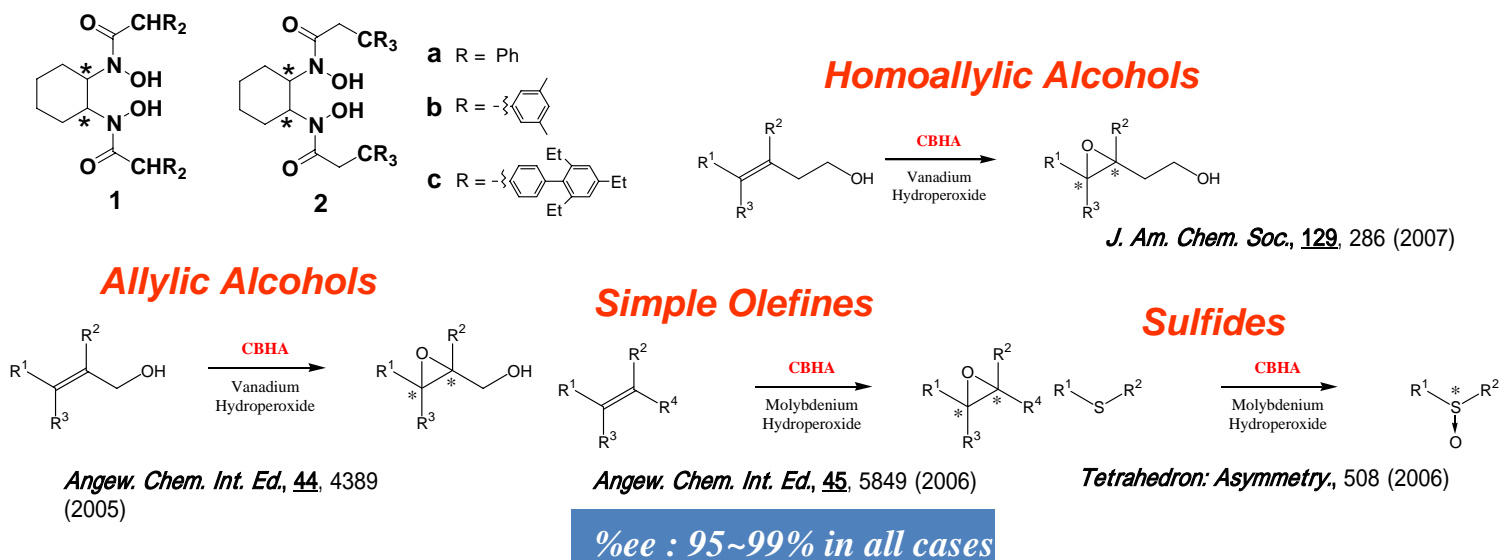


Catalytic Asymmetric Epoxidation

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1. Technology Overview

Asymmetric epoxidation is one of the most important modern chiral technology and widely used in pharmaceutical and material applications. However, the presently available procedures are several limitations for industrial uses. Our new technology based on bis-hydroxamic acid ligand is able to provide an easy access of various chiral epoxides with much wider and safer systems.



2. Benefits

High selectivity
for wide range substrate

Homoallyl alcohols
Cis allyl alcohols
Small molecules
Simple olefines sulfides

Mild condition
and simple work up

No need for low temperature
below -20°C
Easy work up
Low catalyst loading (less than 1mol%)

High safety process
and environment

Low risk of explosion
No dehydration of the oxidizer
No halogenated solvents

3. Market Potential / Applications

Pharmaceutical and agrochemical and material applications

4. Keywords

Chiral epoxide, cumene peroxide, vanadium, molybdenum catalysis

5. International Patents & Patent Owner Contact

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