

# Epoxydes



## 1. Epoxidation of Alkenes



Reaction is stereospecific  
(trans alkenes give trans epoxides,  
cis alkenes give cis epoxides)



$\text{H}_2\text{O}_2$  only works for electron-depleted  $\text{C}=\text{C}$  (needs an EWG next to the  $\text{C}=\text{C}$ ).

## 2. Closure of Halohydrins



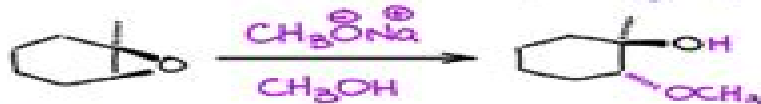
$\text{S}_\text{N}2 \Rightarrow -\text{X}$  &  $-\text{OH}$  must be able to assume an anti conformation

## 3. Acid-Catalyzed Opening of Epoxides



Nucleophile attacks the **most** substituted C of the epoxide from the back-side.

## 4. Basic / Nucleophilic Opening of Epoxides



Nucleophile attacks the **least** substituted C of the epoxide from the back-side.

## 5. Reaction with Grignard & R-Li Reagents



Reaction works just like a regular epoxide opening with a nucleophile

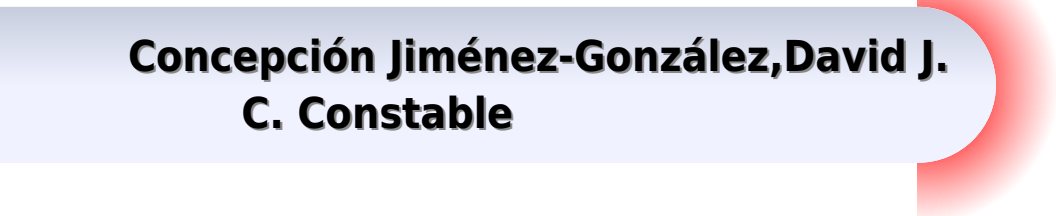
## 6. Opening of Epoxides with $\text{LiAlH}_4$



Same as a nucleophilic opening with " $\text{H}^-$ " acting as a nucleophile in this reaction

# Organic Chemistry Synthesis Guide

**Concepción Jiménez-González, David J.  
C. Constable**



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*Multi-Step Organic Synthesis* Nicolas Bogliotti, Roba Mounné, 2017-12-04 Combining theoretical knowledge of synthetic transformations practical considerations structural elucidation by interpretation of spectroscopic data as well as rationalization of structure property relations this textbook presents a series of 16 independent exercises including detailed descriptions of experimental procedures questions and answers The experimental descriptions are very helpful for guiding less experienced students towards a better understanding of practical aspects in synthetic organic chemistry while the broad scope of the questions and answers is excellent for learning purposes The exercises are based on published research articles adapted for didactic purposes and will thus inspire students by way of having to solve real life problems in chemistry A must have for MSc and PhD students as well as postdocs in organic chemistry and related disciplines and lecturers and organizers of lab courses in organic chemistry

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*organischen Chemie (Houben-Weyl)* K. H. Büchel, Jürgen Falbe, H. Hagemann, M. Hanack, Dieter Klamann, R. Kreher, Manfred Regitz, 1982      Methoden der organischen Chemie (Houben-Weyl) , 1982      **Peterson's Guide to Graduate Programs in the Physical Sciences and Mathematics** ,1991      Catalogs of the Scripps Institution of Oceanography Library: Subject Catalog, Shelf List, Shelf List of Documents and Reports Collection Scripps Institution of Oceanography. Library, 1973

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