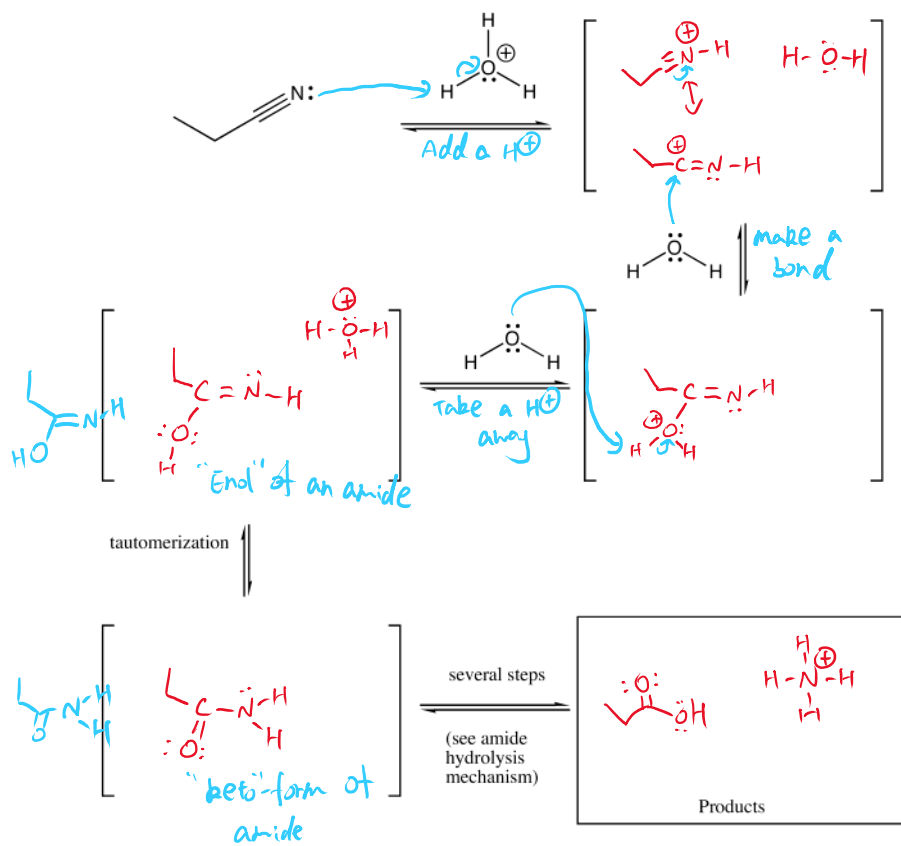




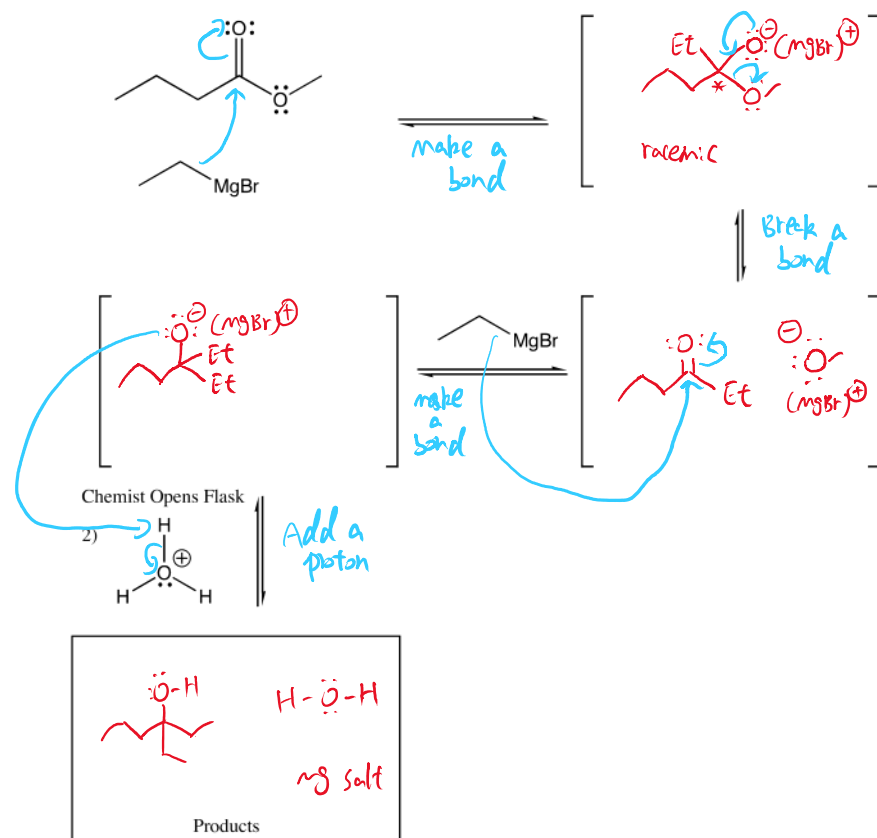
Week 7 Handouts



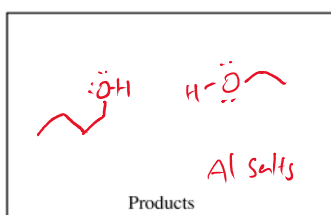
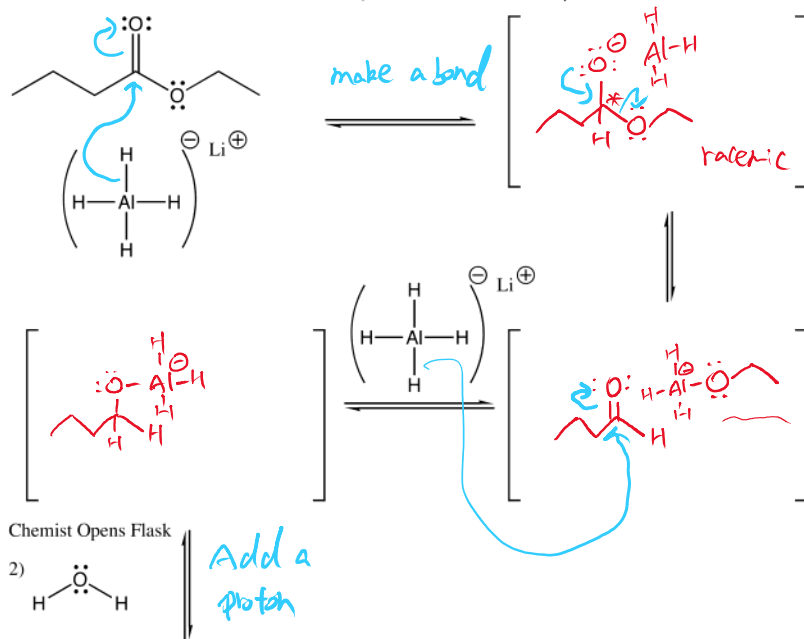
Acid Promoted Nitrile Hydrolysis



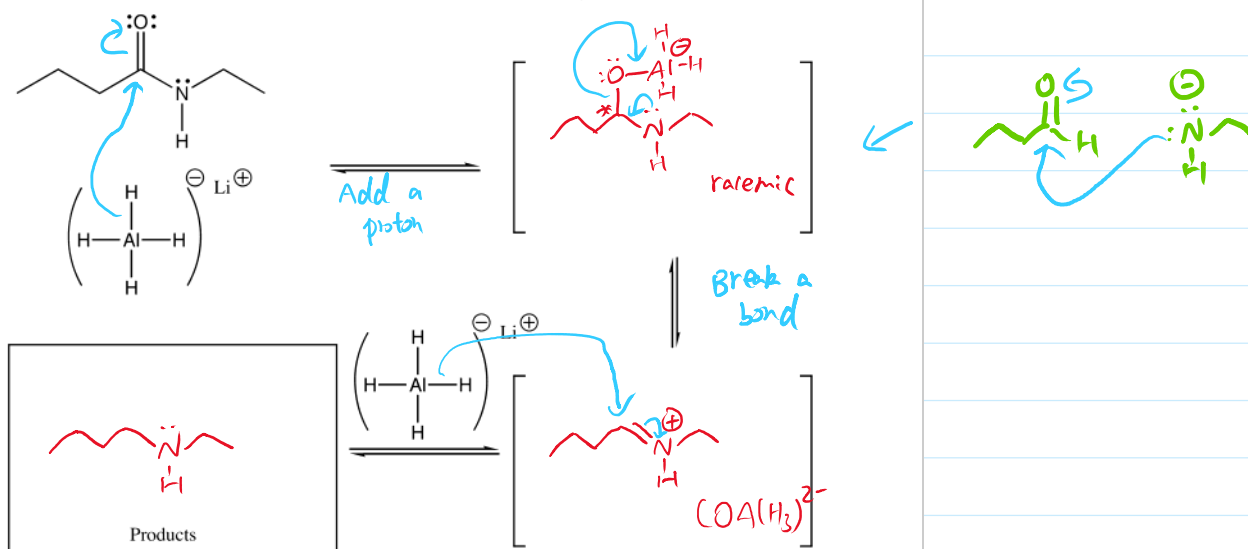
Grignard Reacting with Esters



Reduction of Esters with LiAlH_4

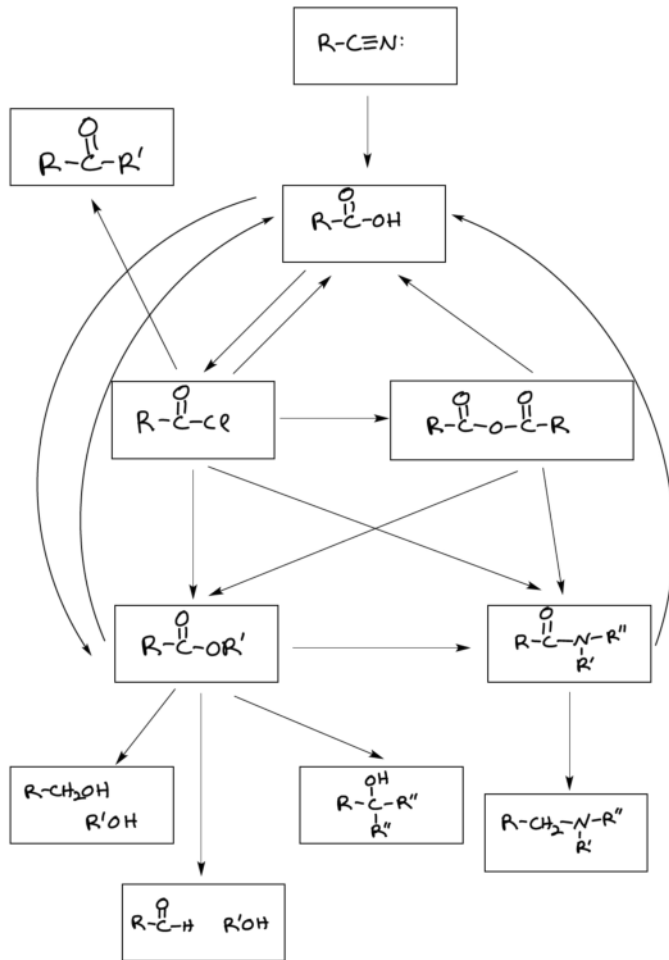


Reduction of Amides with LiAlH_4



Note: In this reaction the chemist opens the flask and adds water in a second step that quenches any excess LiAlH_4 . Therefore, you need a second step to add water when using this reaction in synthesis even though it is not shown in the mechanism above.

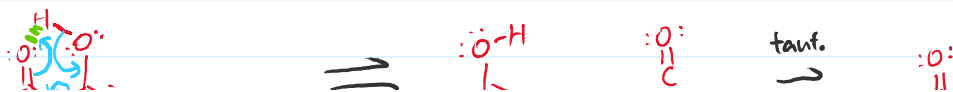
Interconversion of Carboxylic Acid Derivatives

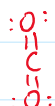
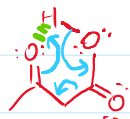


β -keto acid



\uparrow blue band rotate





reactive conformation

