Alkynes
Learning Objectives

Here are the skills you should have for your chapter on alkynes:

1) Understand the differences between internal and terminal alkynes
2) Be able to name compounds containing alkyne functional groups
3) Be able to name compounds with more than one functional group
4) Be able to compare the physical properties of alkynes with that of other compounds
5) Be able to compare the acidity of terminal alkynes with the acidity of other functional groups
6) Know the relative acid strengths of several common acids
7) Understand what a π complex is, know what reactions involve them, and understand how they affect the stereochemistry of a reaction
8) Be able to recognize when keto-enol tautomerization will occur
9) Reactions of alkynes: for each of the reactions shown on the back of this page, be able to:
   a) provide a mechanism for the reactions (unless otherwise noted in class) and for slight variations of these reactions
   b) predict the product(s) of the reactions
   c) predict the regiochemistry and stereochemistry of the products
   d) use the reaction in a synthesis