

Elimination Reactions Notebook Guideline  
Projects 6.1, 6.3

Record a main reaction data table and any observations and results that are appropriate.

Discussion:

1. Provide a full mechanism for the acid catalyzed dehydration of 2-methyl-2-butanol to form both alkene products (project 6.1)
2. Provide a full mechanism for the base catalyzed dehydrochlorination of 2-chloro-2-methylbutane to form both alkene products (project 6.3).
3. Which product formed preferentially in the acid catalyzed reaction? Use data to quantify this product distribution. Does product stability or statistical factors determine the product distribution? Justify your answer using your data and referring to the mechanism.
4. Which product formed preferentially in the base catalyzed reaction? Use data to quantify this product distribution. Does product stability or steric factors determine the product distribution? Justify your answer using your data and referring to your mechanism.