1. Show all fundamental steps of the mechanism for the following reaction.



1. Show all products and fundamental steps of the mechanism for the following reaction.



1. Show all products and fundamental steps of the mechanism for the following reaction.



1. Indicate the order of reactivity of the following esters in the first step of nucleophilic acyl substitution. Explain.



1. Show all products and fundamental steps of the mechanisms for the following reactions.



1. Indicate what reagents you would use for the following transformations.



1. Propose all fundamental steps of the mechanisms for the following reactions.

 

1. Show all fundamental steps of the mechanism to explain why the amount of product varies. No carbonyl side products are formed.



1. Show all fundamental steps of the mechanisms for the following reactions.



1. Propose all fundamental steps of the mechanism for the following reaction.



1. Which of the following reactions will not give the product shown. Explain



1. Show all fundamental steps of the mechanisms for the following reactions.

 

1. Show all fundamental steps of the mechanisms for the following reactions.



1. Which of the following reactions will not give the product shown. Explain



1. Propose a mechanism for all fundamental steps for each of the following.



1. Show all fundamental steps of the mechanisms for the following reactions.



1. Order the following compounds in decreasing Keq for hydration (germinal diol formation) and explain.



1. Show all fundamental steps of the mechanism for the following reaction.



1. Show all fundamental steps of the mechanism for the following reactions.



1. Show all fundamental steps of the mechanisms for the following reactions



1. Show all fundamental steps of the mechanisms for the following reactions



1. Show all fundamental steps of the mechanisms for the following reactions



1. Show all fundamental steps of the mechanisms for the following reactions.



1. Show all fundamental steps of the mechanisms for the following reactions



1. Show all fundamental steps of the mechanisms for the following reactions



1. Show all fundamental steps of the mechanisms for the following reactions



1. Show all fundamental steps of the mechanisms for the following reactions

