

Aldehydes and Ketones, Problem Set #4

Due in lecture on 3/5/2003

No late homeworks accepted

Only the additional problems need to be turned in.

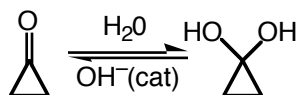
- ❖ Read Chapter 19: exclude section 19.13.

Exercises:

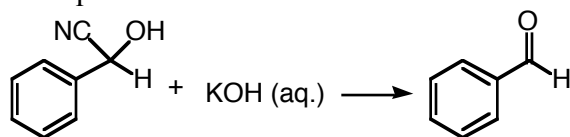
- ❖ McMurry 5th Ed Problems: 19.32, 19.33, 19.34, 19.35, 19.39, 19.40, 19.42, 19.45, 19.47, 19.55, 19.56

❖ Additional Problems:

1. Explain whether the equilibrium below will be on the left or right side of the arrow.



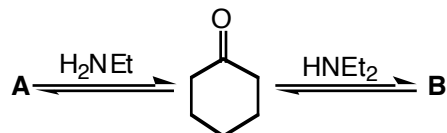
2. Write a mechanism for the equation that follows.



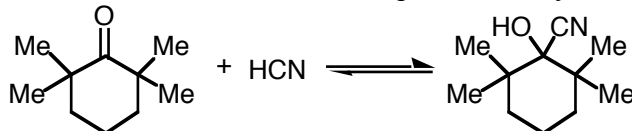
3. There are two regioisomers for the reaction below. Draw their structures and predict the one that will be the major product.



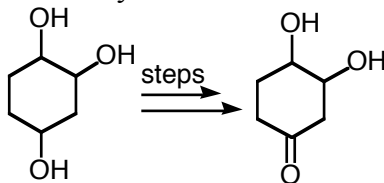
4. What are “A” and “B”? Write mechanisms of their formation.



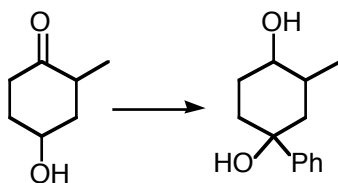
5. The equilibrium below falls to the left side of the equation. Why?



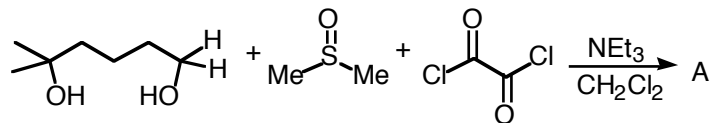
6. Show what reagents you would use to synthesize the following. Multiple steps are required.



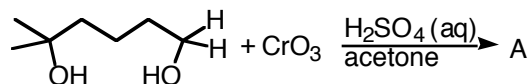
7. Show what reagents you would use to synthesize the following. Multiple steps are required.



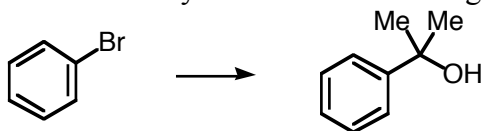
8. What is "A" below? Write a mechanism of its formation.



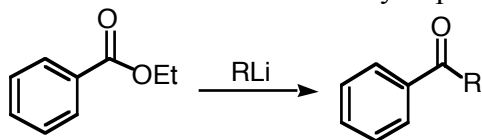
9. What is "A" below? Write a mechanism of its formation.



10. Show what reagents you would use to synthesize the following. Multiple steps are required.



11. The reaction below is flawed. Describe how and what you predict the major product to be.



12. The reaction below is flawed. Why?

