

Homework 11

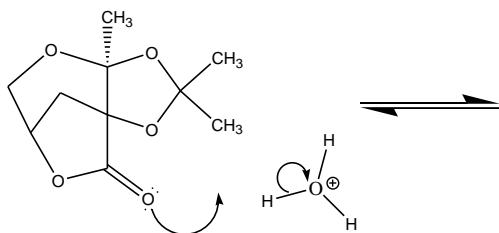
Due: Monday 4/11/16 by 5PM...in the Box

Read: Chapter 19 pages 784-796 and Chapter 20, pages 848-856 (Diels Alder Reaction)

Do: 18.26, 18.63c, 19.18, 19.19a and c, 19.26, 19.31b and c, 19.35, 19.38, 19.47, 19.53 and 20.7.

Supplemental Problem:

1. The messy looking, highly oxygenated tricyclic compound below undergoes hydrolysis in hot aqueous acid to produce a gas and two other products. Write the structure of the gas and the other products first then find a large sheet of paper, sharpen your pencil and use the curved arrow convention to rationalize the mechanism of the reactions that lead to these products. Take your time and please BE NEAT!!!



2. Using only the substances in your stock room (below) as sources of carbon, show a synthetic path to the compounds below. You may use any other substances you choose to help in the synthesis, but all of the carbon in the product must come from the stock room. I encourage you to look for the signatures of reactions we have studied and to work backwards.

