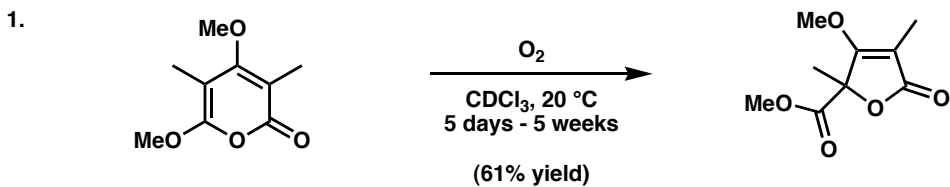


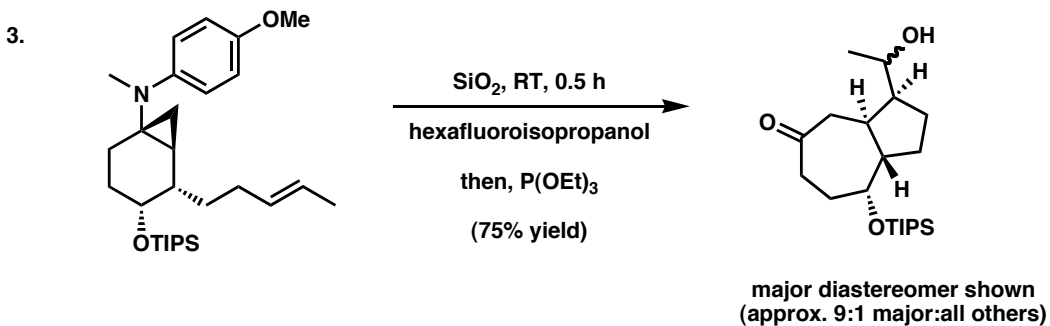
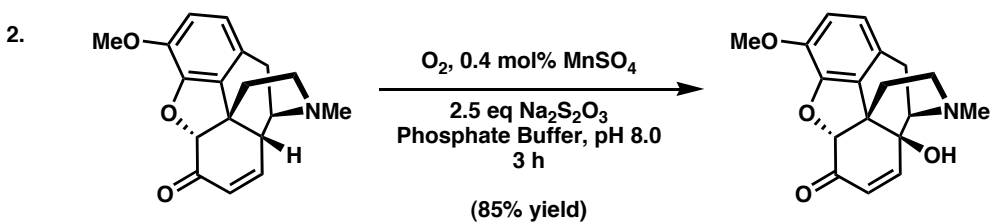
Mechanism Club

10/7/05

Please examine the following transformations involving molecular oxygen and try to figure out a mechanism that accounts for the formation of each product. The goal is to encourage discussion about the mechanisms, not to get the correct answer. Please do not consult any electronic resources.



Hint: A dimeric species is a proposed intermediate in this transformation.



Hint: SiO_2 and fluorocarbon solvents possess a high solubility of oxygen.