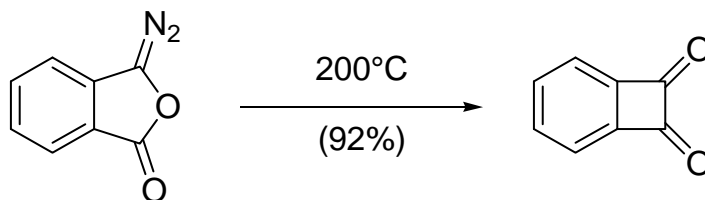


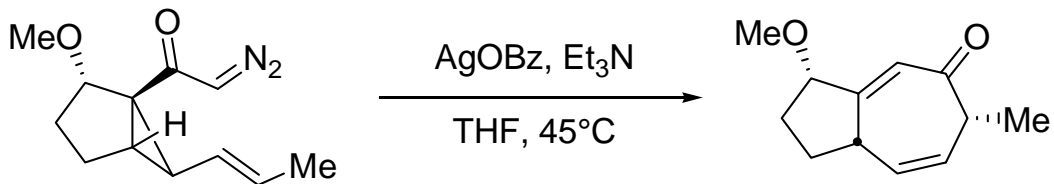
Group Meeting Problems

May 14, 2008

1. Provide a mechanism for the following transformation.



2. Stoltz *et.al.* recently reported an interesting rearrangement. Provide a mechanism for the illustrated transformation. The answer should include clear 3-D drawings where relevant.



3. Provide a mechanism for the following set of transformations. It should be noted that compound **A** exhibits a strong carbonyl frequency in the infrared spectrum. Clearly indicate the structure of compound **A** and the relative stereochemistry of any chiral intermediates.

