

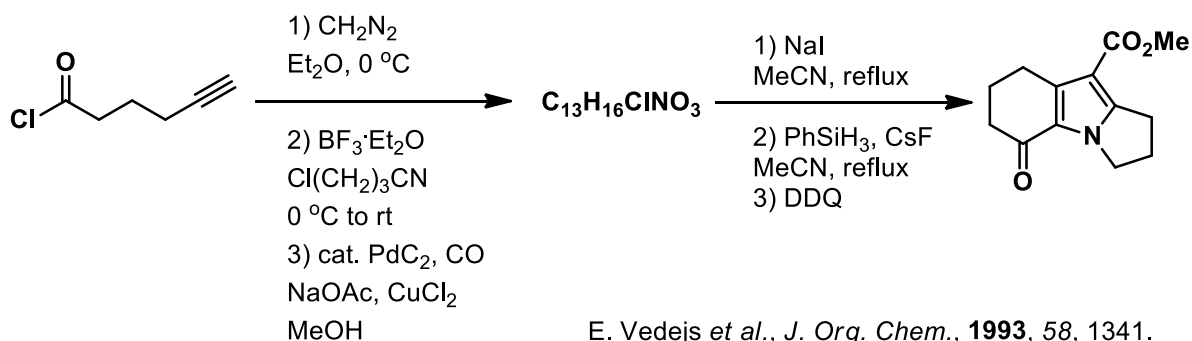


CHEM 8410_6410_4410 – Organic Synthesis

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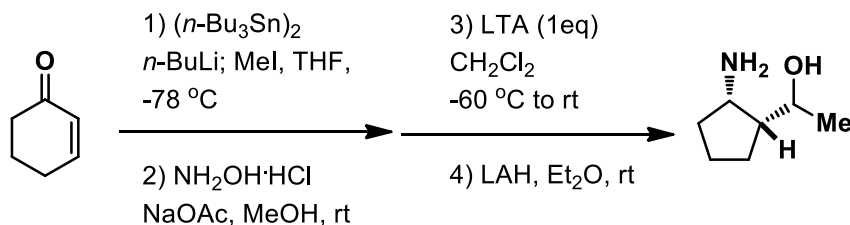
Problem Set 5: This problem set is now available at (www.blackboard.utoledo.edu). It will be due in class 17 days (05/08/20) from today (04/21/20). Grades will be administered as follows: 10 (exceptional effort), 8 (complete), 5 (incomplete or inadequate effort), 2 (poor effort), 0 (nonexistent). No late problem sets will be accepted.

1. **Problem:** Please draw the mechanisms for each and every reaction that is involved in the illustrated transformations. Please include any named reactions that are affiliated with the transformations?



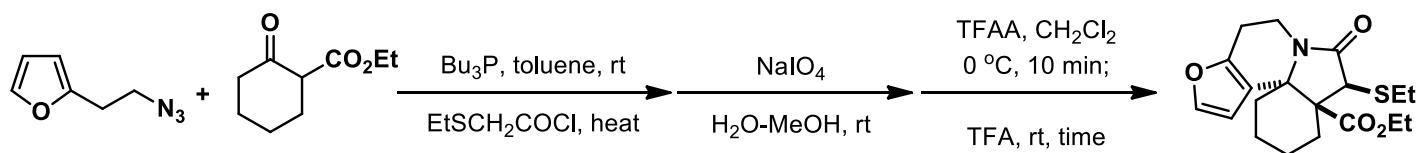
Answer:

2. **Problem: Part A:** Please draw the mechanisms for each and every reaction that is involved in the illustrated scheme. Please include any named reactions that are affiliated with the transformations?



Answer:

3. **Problem:** Please draw the mechanisms for each and every reaction that is involved in the illustrated scheme. Please include any named reactions that are affiliated with the transformations?



Answer: