

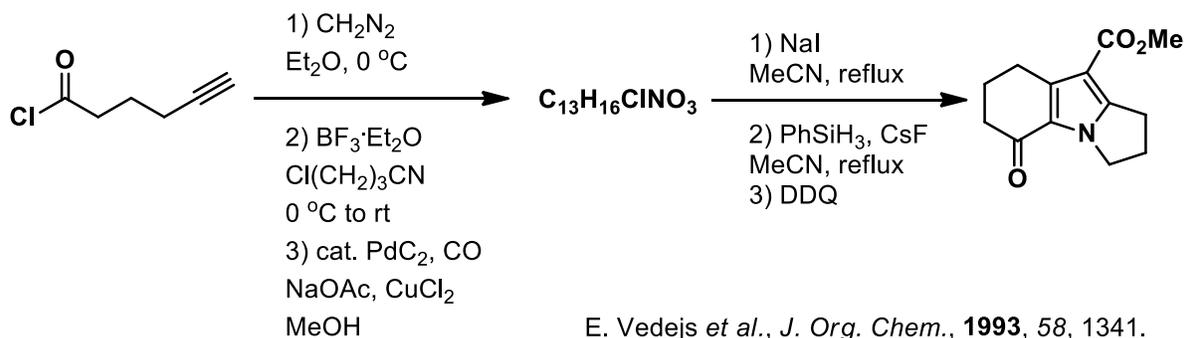


CHEM 8410_6410_4410 – Organic Synthesis

THE UNIVERSITY OF
TOLEDO
1872

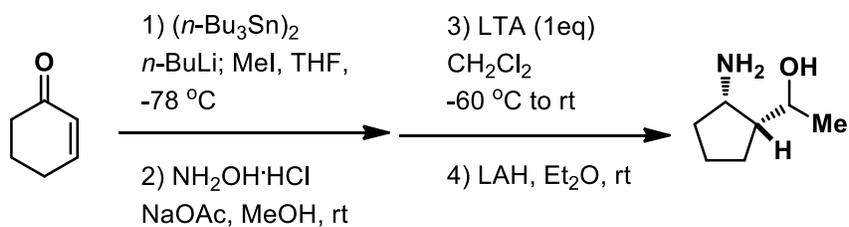
Problem Set 5: This problem set is now available at (www.blackboard.utdl.edu). It will be due in class 20 days (04/30/19) from today (04/10/19). Grades will be administered as follows: 10 (exceptional effort), 8 (complete), 5 (incomplete or inadequate effort), 2 (poor effort), 0 (nonexistent). **No late problem sets will be accepted.** Total PTS = 30

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:

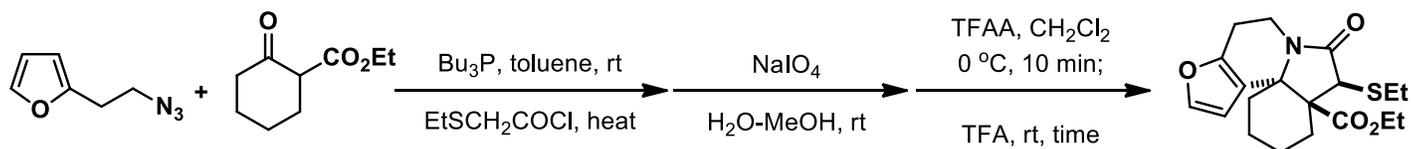
2. **Problem: Part A:** Please draw the mechanisms for each and every reaction that is involved in the illustrated scheme. Please include any named reactions that are affiliated with the transformations?



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?



A. Padwa *et al.*, *Org. Lett.* **2005**, *7*, 1339.

Answer: