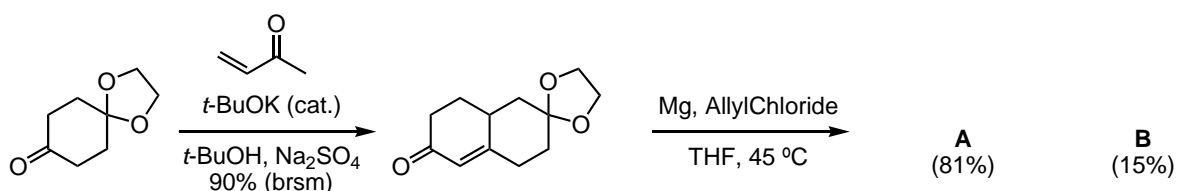
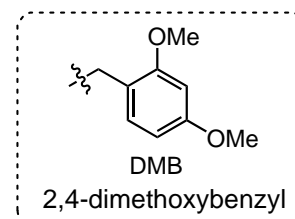


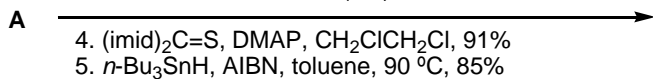
Q1: Propose a reaction mechanism to give **B**.

Q2: Propose a synthetic route from **B** to hirsutellone B.

Sorensen, E. J. *et al. J. Org. Chem.* **2013**, *78*, 9584-9607.



1. KH, 18-Crown-6, THF, 65%
2. OsO₄, NaIO₄, 2,6-lutidine, dioxane-H₂O (3:1), 92%
3. t-BuOK, THF-t-BuOH (3:1), 99%



1. KH, 18-Crown-6, THF, 62%
2. OsO₄, NaIO₄, 2,6-lutidine, dioxane-H₂O (3:1), 92%
3. t-BuOK, THF-t-BuOH (1:1), 99%

