

## Lab 12: Michael Reaction

### Reading

- Pavia, et al., Expt. 36, pp. 320-323.

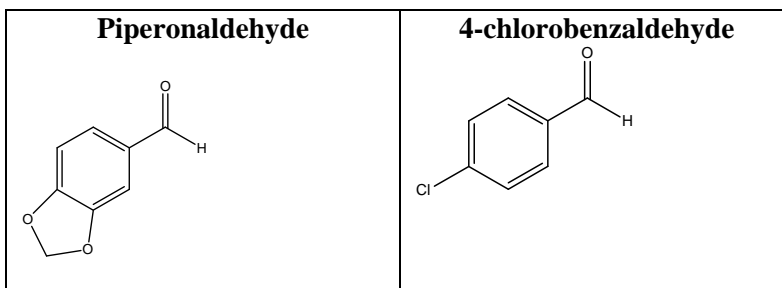
### Prelab Assignmet

Your prelab should include the following: Date, Introduction, Haz-Mat, Reactant Table, Chemical Equation, and Procedures.

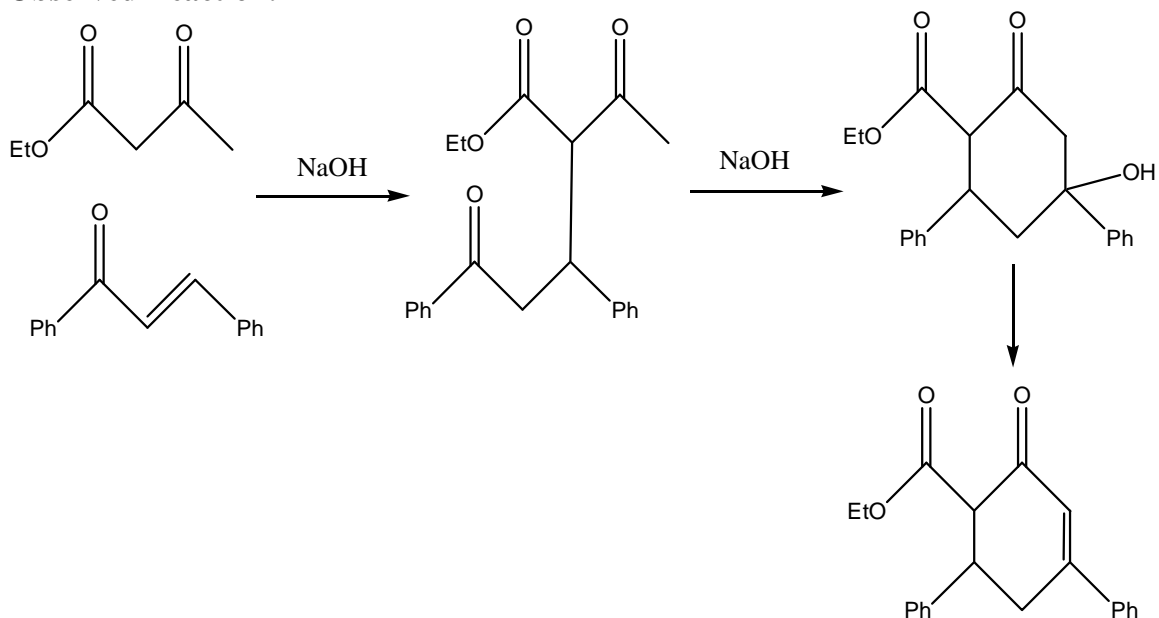
### Procedural Notes

- We will follow the procedure in the lab book.
- You will use the *trans*-chalcone that you prepared from the previous experiment.
- You will need ~ 0.24 grams of the chalcone. If you do not have this quantity, see your instructor for supplemental chalcone.

Aldehyde	Chalcone (MP °C)	Michael Product (MP °C)
Piperonaldehyde	121-122	146-147
4-chlorobenzaldehyde	114-115	141-143



### Observed Reaction:



**Post-Lab Questions**

*Answer these questions in your lab notebook after your conclusions in a section titled "Post-Lab Questions".*

1. Draw a complete mechanism showing the formation of your product using your substituted chalcone as the starting material.
2. Why is it possible to separate your product from NaOH using acetone?