Name: _____

Locker Number: _____

Experiment 35

THE ALDOL CONDENSATION REACTION: PREPARATION OF BENZALACETONES AND BENZALACETOPHENONES

Pre-Lab Exercise

1. Draw the structural formula and provide a complete IUPAC name for the substituted aldehyde and the substituted acetophenone that you were assigned for this experiment.

2. Draw the structure and determine the **molecular formula** for the chalcone product that you expect will be formed from the reaction of your assigned aldehyde and acetophenone.

3. Outline the mechanism for the aldol condensation of **benzaldehyde** with **acetophenone**. Be sure to include the final dehydration step. You may use the back side of this sheet for your answer.