

Lab Notebook

1. *Title and Reaction Mechanism* (if appropriate)
2. *Abstract* (2-3 sentences explaining the experiment)
3. *List of Compounds* (follow the template below)

	Compound name	Structure	F.W.	moles	Amount	Comments
Ex.	Allyl chloroformate	draw molecule	120.54	0.1	10.6 mL	1 equiv; d = 1.136

4. *Procedure* (you should be able to perform the experiment by following the procedure written in your notebook)
5. *Conclusion* (Short explanation of what happened during the experiment. You should include any observations (melting points, boiling points, color changes, any other important data derived from the experiment, etc...), problems encountered, and yields.

Write up

1. **Title**
2. **Abstract** (same as in notebook)
3. **Results and Discussion** (State any pertinent data and discuss the data. How well did the experiment go compared to what is discussed in the book. Did you get a good yield? If not, why? Were your melting points sharp (1-2 degrees) or did the compound melt over a broader range of temperature; why? Were there any particularly difficult steps in the procedure. If so, can you make suggestions as to make them easier.
4. **Experimental** (Procedure) This should be written in a formal manner emulating what you would find in a chemical journal. For examples, go to the chemistry library and look at an article in the Journal of the American Chemical Society and look at the Experimental Section.
Example : A round bottom flask, equipped with a stir bar and thermometer, was charge with 200 mg (1 mmol) of compound X. Ethanol (20 mL) was then added followed by compound Y (350 mg, 1.1 mmol) and the resulting solution stirred for 30 min. at room temperature. After which time, the ethanol was evaporated affording a pale yellow solid which was recrystallized from diethyl ether to yield 300 mg of a white solid (88% yield, m.p. 189° C.).
5. **Assigned Questions** (See Lab Syllabus)