Name:	Section:
Data and Calculations for Experiment 14	
Weight of salicylic acid added	
Volume of acetic anhydride	
Density of acetic anhydride from CRC	
Molecular Weight of acetic anhydride	
Molecular Weight of salicylic acid	
Theoretical Yield of aspirin	
Actual Yield of crude aspirin	
Actual Yield of recrystallized aspirin	
Percent Yield of recrystallized aspirin	

Test Tube No.	Sample	Color	Intensity
1	Salicylic acid		
2	Your synthesized aspirin		
3	Commercial aspirin		

<u>Questions</u>

1. Determine the percentage yield of your crude product.

2. 2.0 grams of salicylic acid and 5.0 mL of acetic anhydride (density = 1.08 g/mL) are mixed to produce aspirin. Determine the percentage yield of the reaction if 1.9 g of aspirin is actually obtained in this experiment.

3. In your own words, write a one-half page, well-written abstract of the entire experiment, making sure to briefly state the overall purpose or goal as well as any conclusions. (For additional guidelines on writing this abstract, please refer to the **Moorpark College Chemistry Department Laboratory Report Rubric** found in the lab manual and department website.)