

Chemistry 219
Organic Chemistry
Fall 2007

Lab Supervisor: Dr. Rick C. White
Office: CFS 317J
Phone: 294-1060
E-mail: chm_rcw@shsu.edu
Text: Organic Chemistry Lab Manual

This is the second semester of a two semester sequence in the manipulations involved in organic chemistry. Be sure to continue to take proper care of your equipment, keep your work area clean, and to exercise proper care of the chemicals and the community equipment such as rotary evaporators and melting point apparatuses.

Professional Behavior You are expected to act in the following manner while in the laboratory

- 1) Observe all safety rules. That is, neither food nor drink is allowed in the laboratory.
- 2) Safety goggles are required at all times.
- 3) Your work area is expected to be cleaned at the end of the laboratory period.
- 4) Your samples must be submitted with a label that describes the product, raw yield, per cent yield and mp.
- 5) Honesty is worth more than a good report. Dishonesty and disregard for laboratory equipment will result in expulsion from the laboratory.

Failure to observe rules 1 and 2 will result in expulsion from the laboratory.

Failure to observe rules 3 will result in a loss of 10 pts for each violation.

Failure to observe rule 4 will result in failure of the class

Tentative Schedule

Week of

September 17	Check in and clean up
September 24	Nitration of Methyl Benzoate
October 1	Preparation of 1,4-Di- <i>t</i> -butyl-2,5-dimethoxybenzene
October 8	Diels Alder Chemistry: <i>cis</i> -Norbornene-5,6- <i>endo</i> -dicarboxylic anhydride
October 15	Preparation of Potassium Benzohydroxamate
October 22	Acid Preparation by the Hydrolysis of an Ester
October 29	The Benzoin Condensation
November 5	The Beckmann Rearrangement
November 12	Chemistry of 3-Carboethoxycoumarin
November 26	The Aldol Reaction

During the semester, one of your reports must include a completely characterized NMR spectrum. You must be checked out on the NMR spectrum first.

Again, safety is very important as well as professional behavior. Sloppiness will not be tolerated as this is where one begins to develop professional behavior that will characterize your work ethic throughout your life.

Grades will be calculated as follows:

9 labs@50 pts each = 450 pts

I Final exam 100 pts

9 quizzes 90 pts

Total 640 pts

576 - 640 = A

512 - 575 = B

448 - 511 = C

384 - 557 = D