

ORGANIC CHEMISTRY 1 LAB SCHEDULE, FALL 2009

WEEK	DATES	TOPIC	WRITEUP DUE FOR WEEK #	ASSIGNED READINGS	QUIZ
1	9/1,3	Intro, check-in	-	Chp. 1-3	
2	9/8,10	The Reaction of Isoamyl Alcohol with Acetic Acid	-	Chp. 31,13,17	
3	9/15,17	The Reaction of Isoamyl Alcohol with Acetic Acid	-	Chp. 31, 15	
4	9/22,24	Recrystallization of Benzoic Acid and Naphthalene	2,3 (isoamyl alcohol rxn)	Chp. 9-11	
5	9/29,10/1	Solubility Tests	-	Chp. 9-11,4	QUIZ 1
6	10/6,8	Separation of a Mixture Containing Acidic, Basic, and Neutral Components	4 (recrystallization)	Chp. 12,14	
7	10/13,15	Separation of a Mixture Containing Acidic, Basic, and Neutral Components	5 (solubility tests)	Chp. 12,14	
8	10/20,22	Separation of a Mixture Containing Acidic, Basic, and Neutral Components	-	Chp. 12,14	
9	10/27,29	Synthesis of Benzil	6-8 (extraction)	Chp. 18,19	
10	11/3,5	Synthesis of Dilantin	-	Chp. 19	QUIZ 2
11	11,10,12	Limonene (Part 1)	9 (benzil)	Chp. 24,26	
12	11/17,19	Limonene (Part 2), An Oxidation Puzzle	10 (dilantin)	Chp. 25,26, handout	
13	11/24,26	no lab	-	-	
14	12/1,3	An Oxidation Puzzle	11,12 (limonene)	handout	
15	12/8,10	clean hood/bench, checkout	12,14 (oxidation)	-	QUIZ 3

GRADING: The lab component of your grade is 110 points out of the 600 for the course. There will be 8 grades for writeups, 10 points each, for 80 points. A typical grade for a writeup can be broken down into three parts: content of the writeup (60%), yield of the product (20%), purity of the product (20%). Late lab writeups will cost you 5 % per school day. Lab writeups cannot be turned in after the graded labs have been returned. There will also be three 10 point lab quizzes. Students who do not conform to our notions of laboratory etiquette (Chp. 1, p. 2 in the lab manual) can expect to have points deducted from their lab score. This can be done either within individual writeups for isolated incidents or as a deduction from the total score for semester-long offenses. In cases where common areas of the lab (balances, melting point apparatus.....) are abused or left messy, an entire lab section may have points deducted.

USEFUL SUPPLEMENTARY SOURCES: One part of your lab writeup requires you to list several physical properties for the compounds involved in that particular experiment. This information can be obtained most conveniently from one of the following:

- 1) The Merck Index - located in the lab, the reading room, and the library reference collection (RS.51);
- 2) The CRC Handbook of Chemistry and Physics - located in the lab, the reading room, and the library reference collection (QD.65);
- 3) The Aldrich Catalog - located in the lab and the reading room;
- 4) Lange's Handbook of Chemistry - located in the reading room;
- 5) <http://chemfinder.cambridgesoft.com/> (useful for lab writeup info),
- 6) www.mdli.com (a FREE chemical drawing program!!)

