

Organic Chemistry Laboratory I

Chemistry 155

Section: D100

Term: 1998 Spring

Instructor: Mrs. S. Black. Office: SSB-8144.

Dr. Uwe Kreis. Office: C-9039.

Discussion Topics: Under construction

General Course Description:

Laboratory techniques, compound preparation and characterization.

0 lecture hours/week; 0 tutorial hour/week; 4 lab hours.

Topics:

Week 1, Experiment 1: Boiling Points and Refractometry.

Week 2, Experiment 2: Distillation.

Week 3, Experiment 3: Crystallization.

Week 4, Experiment 4: Chlorination of 2,3-Dimethylbutane .

Week 5, Experiment 5: Nucleophilic Substitution Rx.

Week 6, Experiment 6: Kinetics of the Solvolysis of Alkyl Halides.

Week 7, Experiment 7: Dehydration of an Alcohol.

Week 8/9, Experiment 8: Synthesis of Sulcatol.

Week 10, Experiment 9: Grignard Reaction.

Week 12, Experiment 10: Functional Group Tests.

Week 13, Experiment 11: Identification of Unknowns.

Grading: 10% Preparation for experiments; 15% Laboratory technique; 50% Experimental results; 25% Course Exam.

Required Texts: Pavia, Lampman, Kriz & Engel, "Introduction to Organic

Organic Chemistry Laboratory I

Laboratory Techniques - a Microscale Approach". 2nd Ed. 1995. Harcourt Brace.

Chem 155 Laboratory Manual will be distributed at the first laboratory lecture in Week 1.

Recommended Texts: None

Materials/Supplies: None

Prerequisite/Corequisite: Prerequisite: CHEM 102 and 115. Corequisite: CHEM 150.

Notes: None

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