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5.37 Introduction to Organic Synthesis Laboratory

Spring 2009

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MASSACHUSETTS INSTITUTE OF TECHNOLOGY
DEPARTMENT OF CHEMISTRY

Chemistry 5.37

GRADE SHEET

Module 7: Introduction to Organic Synthesis

Student:

Teaching Assistant:

Grading: A – exceptionally good, superior; B – good; C – adequate; D- barely adequate; F- unsatisfactory

Oral Quiz (10%)

Lab Notebook (20%)

*Pre-labs (10%), timeliness & completeness (5%),
clarity and organization (5%)*

Comments:

Results and Technique (30%)

General technique (5%) *General technique, including reaction setups, quality of TLC analyses, NMR spectra (e.g., good resolution, no solvent peaks), etc.*

Comments:

Results: Purification of dibenzyl tartrate (5%) *Amount and quality of purified tartrate*

Comments:

Results: Esterification reaction (5%) *Yield and purity (NMR) of product (and success of column)*

Comments:

Results: Hydrogenation (5%) *Amount and purity of diacid*

Comments:

Results: Diels-Alder reaction (10%) *Yield and purity (NMR) of product and enantioselectivity; success of column chromatography*

Comments:

Analysis and Final Report (35%)



Style, format, discussion (10%) *Organization, presentation, clarity, style for literature references, general discussion of results*

Comments:

Experimental procedures (5%) *Content, follows Organic Syntheses style guidelines*

Comments:

Spectroscopic analysis (5%) *Presentation of data, assignments and interpretation of spectra*

Comments:

Mini-review (15%)

Comments:

Waste Inventory Sheet (5%)

Final Grade for Module 7