5.37 Introduction to Organic Synthesis Laboratory
Spring 2009

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Module 7: Introduction to Organic Synthesis

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%)

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