

**CHE 175**  
**Spring, 2006**  
**Lab Report Rubric/Cover Sheet**

**Name:** \_\_\_\_\_  
**Section:** \_\_\_\_\_  
**Date:** \_\_\_\_\_

*Please print out a copy of this form, fill in the general information above, and **staple** the form to the **FRONT** of your lab report*

**Lab #3: Wittig Synthesis of 1,4-Diphenyl-1,3-butadiene**

<b>CONTENT</b>		
<i>Category</i>	<i>Points</i>	<i>Explanation</i>
Completeness	<b>0</b>	All sections of the lab report are missing or incomplete
	<b>1</b>	Several sections of the lab report are missing
	<b>2</b>	All sections of the lab report are present but some are incomplete (not thorough enough)
	<b>3</b>	One section of the lab report is missing or incomplete, but the rest are present and complete
	<b>4</b>	All sections of the lab report are present and complete, including the general information cover sheet
% Yield of Wittig Precursor (Part A)	<b>0</b>	No product was obtained
	<b>1</b>	%Yield is less than 20 or greater than 100
	<b>2</b>	% Yield is 21-50
	<b>3</b>	% Yield is 51-100
% Yield of Final Product (Part B)	<b>0</b>	No product was obtained
	<b>1</b>	% Yield is less than 20 or greater than 100
	<b>2</b>	% Yield is 21-50
	<b>3</b>	% Yield is 51-100
Melting Point of Purified Final Product	<b>0</b>	Melting point is not reported
	<b>1</b>	Melting point is 153 +/- more than 5 °C
	<b>2</b>	Melting point is 153 +/- 5 °C or less
Interpretation of NMR spectra	<b>0</b>	No attempt was made to interpret either the <sup>1</sup> H or <sup>13</sup> C NMR spectra
	<b>1</b>	Minimal attempt was made to interpret one or both of the NMR spectra
	<b>2</b>	An attempt was made to interpret one but not both NMR spectra
	<b>3</b>	An attempt was made to interpret both NMR spectra, but interpretation is flawed
	<b>4</b>	Both the <sup>1</sup> H and <sup>13</sup> C NMR spectra are interpreted and peak assignments made
Exercises (from Procedure)	<b>0</b>	Exercises are completely missing
	<b>1</b>	Answers show minimal effort and are mostly incorrect
	<b>2</b>	Answers show satisfactory effort but are mostly incorrect
	<b>3</b>	Answers show good effort but one or two are off-base
	<b>4</b>	Answers show good effort and are nearly all correct
	<b>5</b>	Answers show good effort and are completely correct
Lab Notebook Carbons	<b>0</b>	Carbons not submitted
	<b>1</b>	Carbons submitted but data are inconsistent with lab report
	<b>2</b>	Carbons submitted and data are consistent with lab report
<b>FORM/QUALITY</b>	<b>0-1</b>	The entire lab report is very poorly written, and/or difficult to read or understand
	<b>2-3</b>	Sections of the lab report are poorly written and/or too brief (not thorough)
	<b>4-5</b>	Lab report is reasonably well written but there are numerous grammar errors, spelling mistakes, and/or typos
	<b>6-7</b>	Lab report is well written, clear, easy to understand and follow, and all sections are thorough
<b>Total Points Awarded for Lab:</b>		<b>Comments or Suggestions:</b>