

**Lab #4: Knoevenagel Condensation Reaction**

<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 Product	<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 +/- more than 5 °C or more from the actual MP
	<b>2</b>	Melting point is +/- 5 °C or less from the actual MP
Interpretation of Spectra	<b>0</b>	No attempt was made to interpret the spectra
	<b>1</b>	Minimal attempt was made to interpret spectra
	<b>2</b>	An attempt was made to interpret the spectra, but interpretation is incorrect
	<b>3</b>	An attempt was made to interpret the spectra, but interpretation is incomplete
	<b>4</b>	All spectra were interpreted correctly and thoroughly
Reaction Mechanism	<b>0</b>	Reaction mechanism not shown
	<b>1</b>	Reaction mechanism is shown but is completely incorrect
	<b>2</b>	Reaction mechanism is shown but is partially incorrect
	<b>3</b>	Reaction mechanism is shown and is correct
Product Identification and Rationale	<b>0</b>	Product was not identified
	<b>1</b>	Product was identified incorrectly and no explanation given to support it
	<b>2</b>	Product was identified incorrectly but some attempt at explanation was made
	<b>3</b>	Product was correctly identified but data are not used to support structure
	<b>4</b>	Product was correctly identified but data are used incorrectly to support structure
	<b>5</b>	Product was correctly identified and structure is supported by data
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>