## Formal Report: Synthesis Project Benzyl Ether of Vanillin Synthesis Chem 228 WS/2015

Name:	Section:		
ATTACH THIS GRADESHEET TO THE FRONT OF YOUR PAPER			
General/Grammar (20 points):  Justification - not left and right justified Poor general page layout (margins, font, etc) Title - not properly worded Spelling - general words misspelled -Chemical names misspelled Grammar - failure to comply with the following: -Used and maintained proper tense for section, good general grammar Missing page numbers, cover page, section labels	-5 -5 -2 -2 each -4 each -2 to -10		
General format of tables and figures Failure to attach this gradesheet to paper front Subtotal: (not to exceed -20 points)	-2 to -5 -5		
Abstract (10 points):  Missing Abstract entirely Abstract not really an abstract Missing chemical names or reactions Missing mention of how purity was checked (eg. IR, NMR, GC, TLC etc.) Subtotal: (not to exceed -10 points)	-10 -8 -2 to -5 -2 to -5		
Introduction (20 points):  Missing background information  -Reasons for selecting compounds produced -Commercial importance, sources, uses, etcReview of reactions used, advant. & disadvan -Alternate synthesis routes, if possible Subtotal: (not to exceed -20 points)	-3 -4 5 to -10 -5		
Procedure (60 points):  Did not use 3 <sup>rd</sup> person, past tense Missing g, mmol used (need both for all chemicals) Missing balanced equations -Equations, but not balanced -Missing structures of chemicals -Structures not typeset (each rxn) Missing table of chemicals used -Some info in table inaccurate or missing -Table split across 2 pages Procedure not all inclusive or incorrect -Missing tests used (e.g. IR, NMR, GC, TLC) Subtotal: (not to exceed -60 points)	-10 -5 each -5 to -20 -3 to -12 -3 to -15 -5 -5 to -20 -3 to -15 -5 -3 to -12 -2 to -10		

IR Analysis (60 pts):  Missing IR from intermediate steps or all steps Missing reference IR from intermediates Missing tables for the IR analysis -Peak analysis incorrect -Not all "significant" peaks analyzed Subtotal: (not to exceed -60 points)	-10 each -10 each -20 each -2 to -10 -2 to -10		
NMR Analysis (60 pts):  Missing NMR from intermediate steps or all steps Missing reference NMR from intermediates Missing tables for the NMR analysis -Peak analysis incorrect -Not all "significant" peaks analyzed Subtotal: (not to exceed -60 points)	-10 each -10 each -20 each -2 to -10 -2 to -10		
Discussion/Results (60 points):  Missing Tables of Results  -Product masses, % Yields, MP, other tests besides IR, NMR (eg. GC, TLC)  Missing or incorrect calculations of % yield Missing discussion of side reactions, yields, etc. Discussion not logical Missing discussion of "How to Improve Experiment"  Subtotal: (not to exceed -60 points)	-5 to -20 -5 each -5 to -10 -5 to -15 -5 to -10		
References (10 points):  No references References are not endnotes Incorrect formatting of citations Failure to give citations for various information Subtotal: (not to exceed -10 points)	-10 -8 -5 -2 each		
Participation/Yellow Sheets (100 points): Failure to turn in yellow sheets (raw data) Failure to turn in final product Missing pre-lab information for each step (may all be included in one table) Missing experimental details Pages not dated and signed by experimenter and TA Did not void blank spaces/Initial Subtotal: (not to exceed -100 points)	-100 -10 -15 each -10 to -30 -10 ea -5 each		
<b>Late Penalty</b> (After final exam, Thursday 5/6/14)	-20pt/da		
Total of reduced points (not to exceed -400 points):			
Grand Total (400 minus Total of Reduced Points):			