Formal Report: Synthesis Project The Ethylene Ketal Protecting Group Chem 228 FS/2013

Name:	Section:		
ATTACH THIS GRADESHEET TO THE FRONT OF YOUR PAPER			
General/Grammar (20 points): Justification - not left <u>and</u> 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 General format of tables and figures Failure to attach this gradesheet to paper front Subtotal: (not to exceed -20 points)	-5 -5 -2 -2 each -4 each -2 to -10 -5 each -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, etc. -Review of reactions used, advant. & disadvar -Alternate synthesis routes, if possible Subtotal: (not to exceed -20 points)	-3 -4 15 to -10 -5		
Procedure (60 points): Did not use 3 rd 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		

Missing reference IR from intermediates Missing tables for the IR analysis -Peak analysis incorrect	-10 each -20 each -2 to -10	
-Not all "significant" peaks analyzed Subtotal: (not to exceed -60 points)	-2 to -10	
NMR Analysis (60 pts):	10 1	
Missing NMR from intermediate steps or all steps Missing reference NMR from intermediates	-10 each -10 each	
Missing tables for the NMR analysis -Peak analysis incorrect	-20 each -2 to -10	
-Not all "significant" peaks analyzed Subtotal: (not to exceed -60 points)	-2 to -10	
Discussion/Results (60 points):		
Missing Tables of Results -Product masses, % Yields, MP, other tests	-5 to -20	
besides IR, NMR (eg. GC, TLC) Missing or incorrect calculations of % yield	-5 each	
Missing discussion of side reactions, yields, etc. Discussion not logical	-5 to -10 -5 to -15	
Missing discussion of "How to Improve Experiment"		
Subtatal: (not to exceed -60 points)		
Subtotal: (not to exceed -60 points)		
Subtotal: (not to exceed -60 points) References (10 points): No references	-10	
References (10 points): No references References are not endnotes	-8	
References (10 points): No references References are not endnotes Incorrect formatting of citations Failure to give citations for various information		
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Grand Total (400 minus Total of Reduced Points):