## Formal Report: Synthesis Project Synthesis of Fluorescein Chem 228 WS/2010

Name:	Section:
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 -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. & disadvan -Alternate synthesis routes, if possible Subtotal: (not to exceed -20 points)	-3 -4 5 to -10 -5
Procedure (60 points): Missing g/mol 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)	-5 each -5 to -20 -3 to -12 -3 to -15 -5 to -20 -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 -5 each		
Late Penalty(After 4:30 pm, Friday 5/7/10)	-20pt/da		
Total of reduced points (not to exceed -400 points):			
Grand Total (400 minus Total of Reduced Points):			

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