

Formal Report: Synthesis Project
Synthesis of Benzocaine or Phenacetin
Chem 228 WS/2007

NOTE: Attach this blank grading form to the front of your report

General/Grammar (20 points):

Justification - not left <u>and</u> right justified	-5	_____
Correct font and line spacing	-5	_____
Title - not properly worded	-2	_____
Spelling - general words misspelled (ea)	-2	_____
-chemical names misspelled (ea)	-4	_____
Grammar - failure to comply with the following:	-2 to -10	_____
-Used proper tense for section		
-Maintained tense throughout section		
-Avoided run-on sentences		
Missing page numbers	-2	_____
Table, figure format/general layout	-2 to -5	_____
Subtotal: (not to exceed -20 points)		_____

Abstract (10 points):

Missing Abstract entirely	-10	_____
Abstract not really an abstract	-8	_____
Missing chemical names or reactions	-2 to -5	_____
Missing mention of how purity was checked (eg. IR, NMR, GC, etc.)	-2 to -5	_____
Subtotal: (not to exceed -10 points)		_____

Introduction (20 points):

Missing background information		
reasons for selecting compounds produced	-3	_____
commercial importance, sources, uses, etc.	-4	_____
review of reactions used, adv. & disadvan.	-5	_____
alternate synthesis routes, if possible	-5	_____
Subtotal: (not to exceed -20 points)		_____

Procedure (60 points):

Missing mmoles/mg used (need both)	-5	_____
Missing balanced equations	-5 to -20	_____
Equations, but not balanced	-3 to -10	_____
Missing structures of chemicals	-3 to -10	_____
Structures not typeset	-5	_____
Missing table of chemicals used	-5 to -20	_____
Some info in table inaccurate or missing	-3 to -10	_____
Table split across 2 pages	-5	_____
Procedure not all inclusive or incorrect	-2 to -10	_____
Other tests besides IR and NMR (eg. GC)	-2 to -10	_____
Subtotal: (not to exceed -60 points)		_____

IR Analysis (60 pts):

Missing IR from intermediate steps or all steps	-10 each	_____
Missing reference IR from.....	-10 each	_____
Missing tables for the IR analysis	-10 to -20	_____
Peak analysis incorrect	-2 to -10	_____
Not all "significant" peaks analyzed	-2 to -10	_____
Subtotal: (not to exceed -60 points)		_____

NMR Analysis (60 pts):

Missing NMR from intermediate steps or all steps	-10 each	_____
Missing reference NMR from intermed.	-10 each	_____
Missing tables for the NMR analysis	-10 each	_____
Peak analysis incorrect	-2 to -10	_____
Not all "significant" peaks analyzed	-2 to -10	_____
NMR tube(s) not cleaned after use	-10 each	_____
Subtotal: (not to exceed -60 points)		_____

Discussion/Results (60 points):

Missing Tables of Results	-5 to -20	_____
% Yield, MP		
Other tests besides IR, NMR (eg. GC)		
Missing or incorrect calculations of % yield	-5 each	_____
Missing discussion of side reactions, yields, etc.	-5 to -10	_____
Discussion not logical	-5 to -15	_____
Missing discussion of "How to improve Experiment"	-5 to -10	_____
Subtotal: (not to exceed -60 points)		_____

References (10 points):

No references	-10	_____
General references - not endnotes	-8	_____
Incorrect formatting of citations	-5	_____
Failure to give citations for various information	-2 each	_____
Parenthetical notation rather than endnotes	-2	_____
Subtotal: (not to exceed -10 points)		_____

Participation/Yellow Sheets (100 points):

Failure to turn in yellow sheets (raw data)	-100	_____
Failure to turn in chemical products	-10 each	_____
Missing prelab information for each step (may all be included in one table)	-20 each	_____
Pages dated and signed by experimenter and TA	-10	_____
Void blank spaces/Initial	-5 each	_____
Subtotal: (not to exceed -100 points)		_____

Late Penalty *(After 4:30 pm, Friday 5/4/07)* **-20pt/da** _____

Total of reduced points (not to exceed -400 points): _____

Grand Total (400 minus Total of Reduced Points): _____