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## ATTACH THIS GRADESHEET TO THE FRONT OF YOUR PAPER

## General/Grammar (20 points):

| Justification - not left and right justified | -5 | - |
| :--- | :--- | :--- |
| Poor general page layout (margins, font, etc) | -5 | - |
| Title - not properly worded | -2 | - |
| Spelling - general words misspelled | -2 each | - |
| $\quad$-Chemical names misspelled | -4 each | - |
| Grammar - failure to comply with the following: | -2 to -10 | - |
| $\quad$-Used and maintained proper tense |  |  |
| $\quad$ for section, good general grammar |  |  |
| Missing page numbers, cover page, section labels | -5 each | - |
| General format of tables and figures | -2 to -5 | - |
| Failure to attach this gradesheet to paper front | -5 | - |

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
-2 to -5 (eg. IR, NMR, GC, TLC etc.)
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, advant. \& disadvan. -5 to -10
-Alternate synthesis routes, if possible
-5
Subtotal: (not to exceed - 20 points)

## Procedure ( 60 points):

Did not use $3^{\text {rid }}$ person, past tense
-10
Missing $g$, mmol used (need both for all chemicals)
Missing balanced equations
-5 each
-Equations, but not balanced
-Missing structures of chemicals
-Structures not typeset (each rxn)
-5 to -20
-3 to -12
-3 to -15
-5
Missing table of chemicals used
-5 to -20
-Some info in table inaccurate or missing
-Table split across 2 pages
-3 to -15
-5
Procedure not all inclusive or incorrect
-3 to -12
-Missing tests used (e.g. IR, NMR, GC, TLC)
-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 intermediates -10 each
Missing tables for the IR analysis
-20 each
-Peak analysis incorrect
-2 to -10
-Not all "significant" peaks analyzed
-2 to -10
$\square$
$\square$
$\square$
Subtotal: (not to exceed -60 points)

## NMR Analysis ( 60 pts):

Missing NMR from intermediate steps or all steps -10 each
Missing reference NMR from intermediates -10 each
Missing tables for the NMR analysis -20 each
-Peak analysis incorrect $\quad-2$ to -10
-Not all "significant" peaks analyzed -2 to -10 $\qquad$
Subtotal: (not to exceed -60 points)
Discussion/Results (60 points):
Missing Tables of Results
-5 to -20
-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. -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

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-10
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References are not endnotes
-8
Incorrect formatting of citations
Failure to give citations for various information
Subtotal: (not to exceed -10 points)

## Participation/Yellow Sheets (100 points):

Failure to turn in yellow sheets (raw data) -100
Failure to turn in final product
Missing pre-lab information for each step
(may all be included in one table)
Missing experimental details -2 each

Pages not dated and signed by experimenter and TA
Did not void blank spaces / Initial
Subtotal: (not to exceed -100 points)
Late Penalty
(After final exam, Wednesday 5/3/16)
$-20 \mathrm{pt} / \mathrm{da}$
Total of reduced points (not to exceed -400 points):
Grand Total ( 400 minus Total of Reduced Points):

