HOMEWORK ASSIGNMENT #9 ORGANIC CHEMISTRY II

Your name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_/30

Playing in Carbonyl Hell Due Wednesday 7 May

1)



+ HCl

=(Ar)3P

A





A + Reaction name ?

\_\_\_\_\_\_\_\_\_\_\_\_\_

2) Run a Peroxidate cleavage on isopropyl ethyl ketone



3)

+ H2O (each case)

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ name of above class

\_\_\_\_\_\_\_\_\_\_\_\_ name of above class

4) Run a Baeyer-Villager oxidation on 2-butanone

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5)

then H2O



6)

Br2

Acetic acid \_\_\_\_\_\_\_\_\_\_\_ substitution

7a) Run a Wolff-Kishner reaction that produces 1-pentanol

7b) Run a Wolff-Kisher reaction that produces 2-pentanol

8)



\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ hellish name of this reaction

9) Correctly oxidize methanol then run a Cannizzaro reaction on the product.

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10. Write:

Three different oxidations for acetaldehyde

1)

2)

3)

Two different oxidations for acetone

1)

2)

A Wittig reaction involving 2-chloropropane and diethyl ketone

An alpha-substitution of Br on acetone

Make an immine from acetone

Make a carboxylic acid from CN- and acetone

Make a acetic acid directly from acetone

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