

Some Common names: HCOOH formic acid MCCOON Acetic quid propionic acid BC CH COOH 13C) CH - COOH Isolutysic acid BC-CR-CR-COOH Butyric acid Cook oxalic acid. COOH oxalic COOH (Chr)n Coon Malonic 2 5 Syccinic 3 4 4 Cutalic adipi'c

Pimelic S Subceic Coo Y Coon COOH fumazic aid Maleic quid COOK Tastavic quid Malic quid Phthalic avid. I soph that's quid

P

5

Terphthalic acid [0] CM-Coop Phenylacetic acid General Methods of Prep. of Carbonyeic acid. Oxidation:

Oxidation:

Oxidation:

R-41-0H

| j kmm oy / H

R2420-7/H

R2420-7/H

OR

Respect [C203 / 42504

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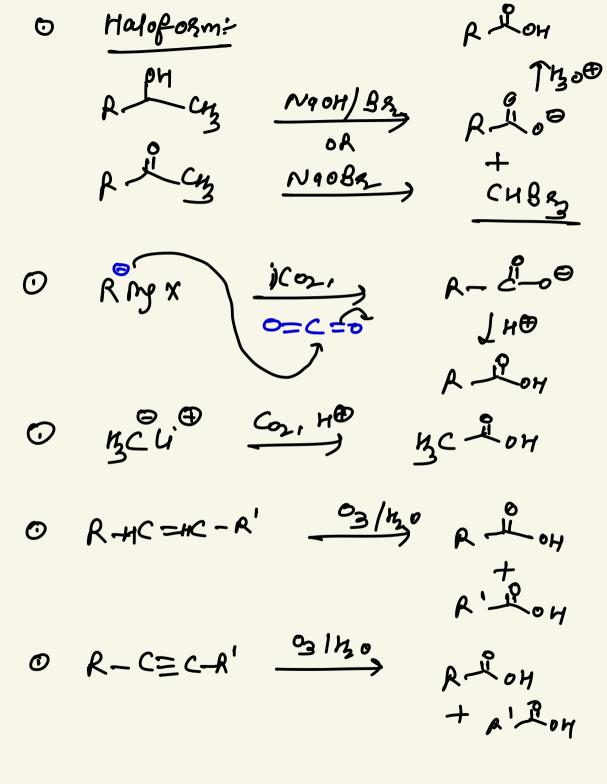
Reappart [C203/H2504

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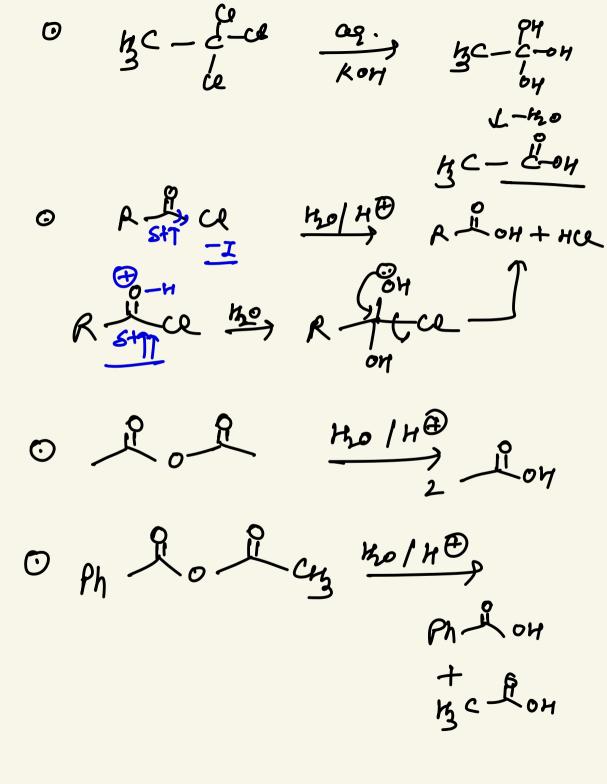
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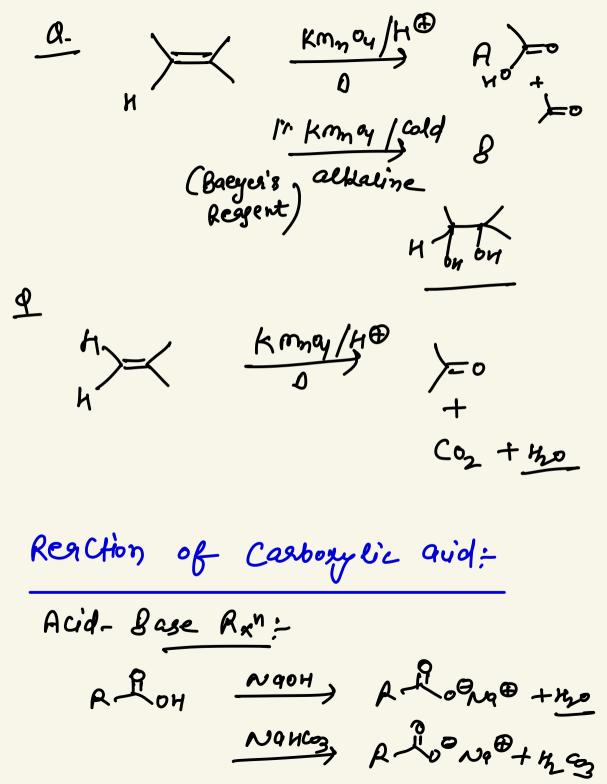
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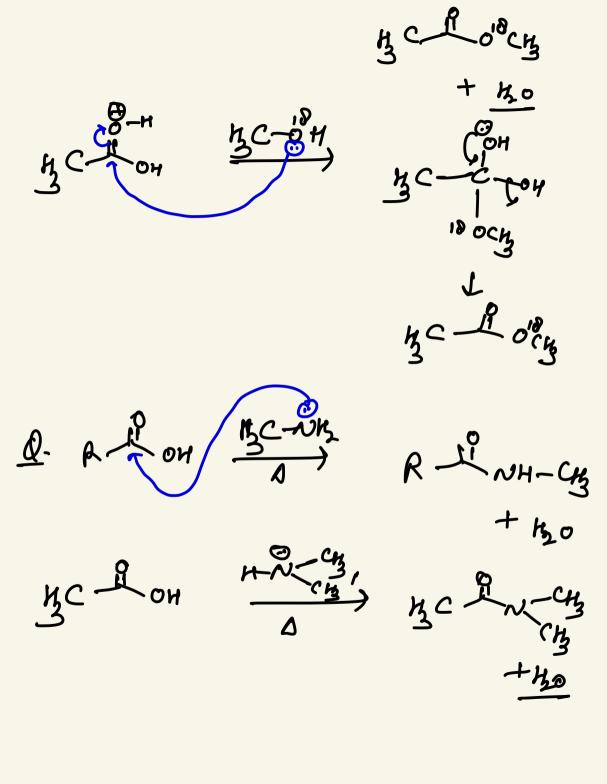


KMnay JH (Heaf) 0 3c-c=c-cn3 2 130 104 Chy Chy Kmay (H^B) on No Ann must Confain at least oned4. Ho+ RIM partial. Bo+ -ho R-ROH +ROH
acid alcanal

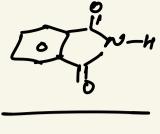




NONE A CONOB +NB HSOY NOT HSOY + RIPH NOU PROPAGAM Bage. R-H + A.P. + RIOPX RIONAD + I'M Reduction = Strong BH



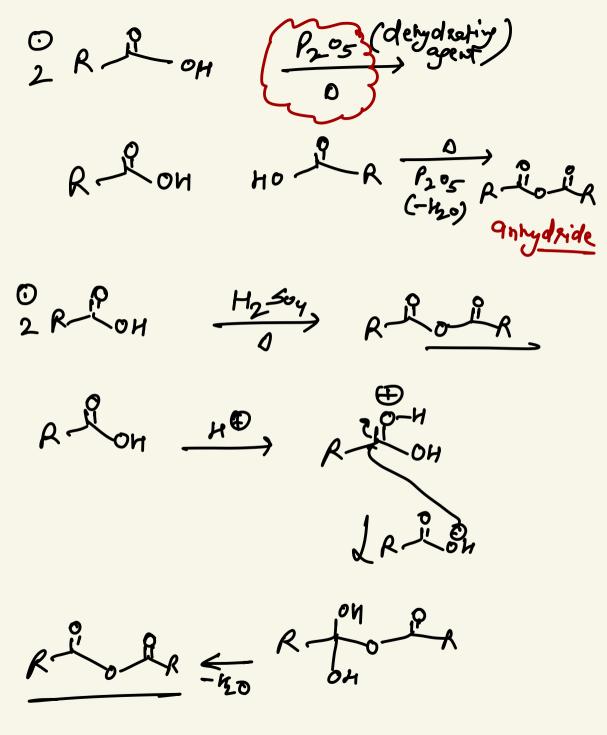
Heating: Zuccinic quid 2 ycciniz armydride. TOT. ph thouse Phtholic aud anhydride.



X-Hydroxy Carboxylic audi 13C - CH - COOH -240 La

No. of Steres isomer?

 $\frac{1}{3}C \xrightarrow{1} \frac{1}{100}OH \xrightarrow{1} \frac{1}{100}COOH$ $\frac{1}{1000}COOH \xrightarrow{1} \frac{1}{1000}COOH$



MC-C-OH NOOH +GO CHy + Coz 9- Rate of Jode-line de Gelborylation j) 104 ii) 104 iii) in certon ace 4737172 $\frac{q}{2C} = C = 0 \xrightarrow{T_2} A$ I HO/ko

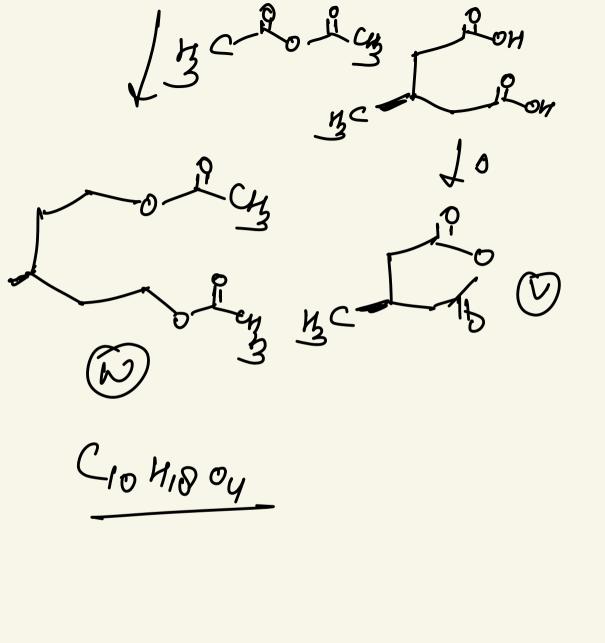
Sodo-line de Carbonylation;

OH

(203/H®

1 2 - oy

4-C-C=0



1 HVZ Rxn= Hell-volhand-Zielnsky Rxn= i) RedP, BA2
R
OH ROH & d-position of Casbonylic acid Sets Halosenated PBR3 RMBR ROH 82+82 R - B2 COH

82-82 BO, HE

3. 3 C-Cy-2-04 1) Redl, Ch.
11) 120

3-04

3-04

CR

PROH; Red P. Baz Nanny (x5) R- NHZ @ Anndt-Eistert Rxhi 1) 50 C/2 R POH

iii) NEtz JAszo (base) iv) Mo Rxn Soch Ritce RHOH L CHI-NEW R Ch-N=N

* 2 tep-up.

ASO + NO - ASOH - HO NEG / ASO Bage (wolf Realisament) R TCH+N=N 1-N2

R-CH=C=0 \int_{M} CH 43 Lon Q- 2-U R-CH=C-OH JVCorpen. 02- C=0 i) SOUS CH-Coop iii) Asza N) ho

3C-6-04 -N904 3C-10000

MC JONIO KIE, BC-CH

+ Caz

AC TO 0' + 12 + 12 H COONA ® K.E.) 12+

9 Hundsdicker Armi

13C- Сп_19 он in AS20 3C-Cn_-Ba

AS20 PUP ASE

-A5BR/ BR-BR

R-10-88

R7 12 + BR.

R-110H

 $R-82+co_2 \leftarrow R'+co_2+88$

H-m.