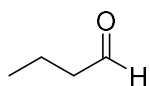


Chapters 22 & 23 Worksheet

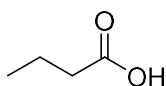
I. Draw the product between each **aldehyde**, **ketone**, and **carboxylic acid** with reagents **(a)-(e)**.



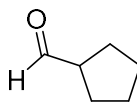
22-1



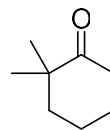
22-2



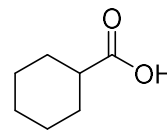
22-3



22-4



22-5



22-6

Chapter 22 reagents (Wednesday)

(a) Br_2 , HAc

(b) Br_2 , NaOH

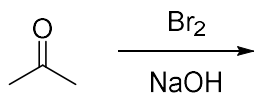
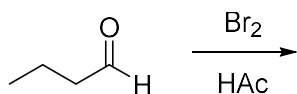
(c) 1. Br_2 , PBr_3 ; 2. NaOH

Chapter 23 reagents (Thursday)

(d) catalytic (cat.) NaOH, EtOH

(e) 1 equiv. NaOH, EtOH, Δ

II. Draw the full arrow-pushing **mechanism** for the following reactions.



More on the next page \rightarrow

Draw the full arrow-pushing **mechanism** for the following reactions.

