

# Carbonyls

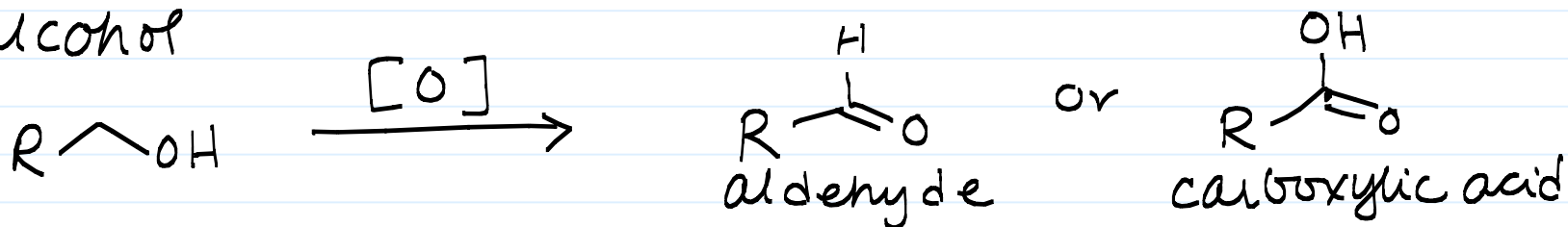
Note Title

4/15/2014

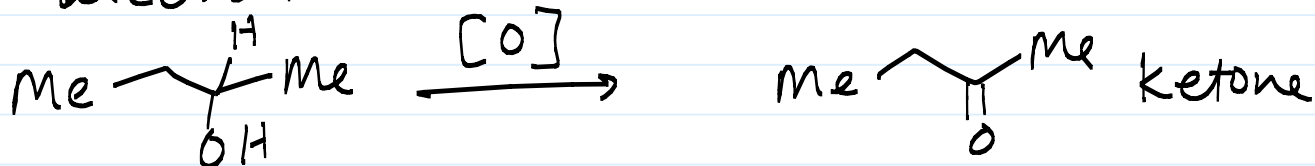
How do you make aldehydes & ketones?

## OXIDATION OF ALCOHOLS

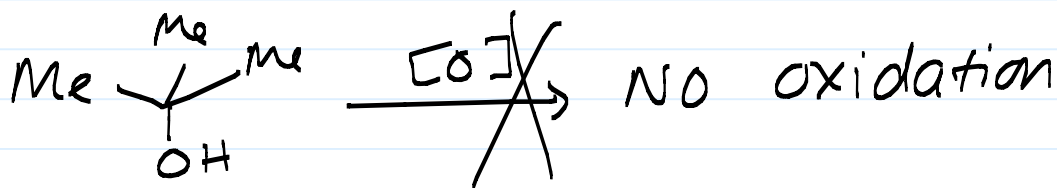
a) 1° alcohol



b) 2° alcohol



c) 3° alcohols

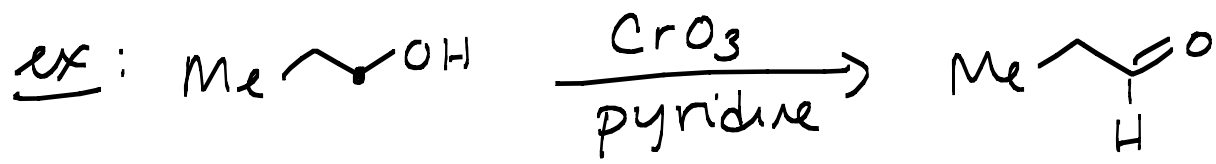


## Oxidants

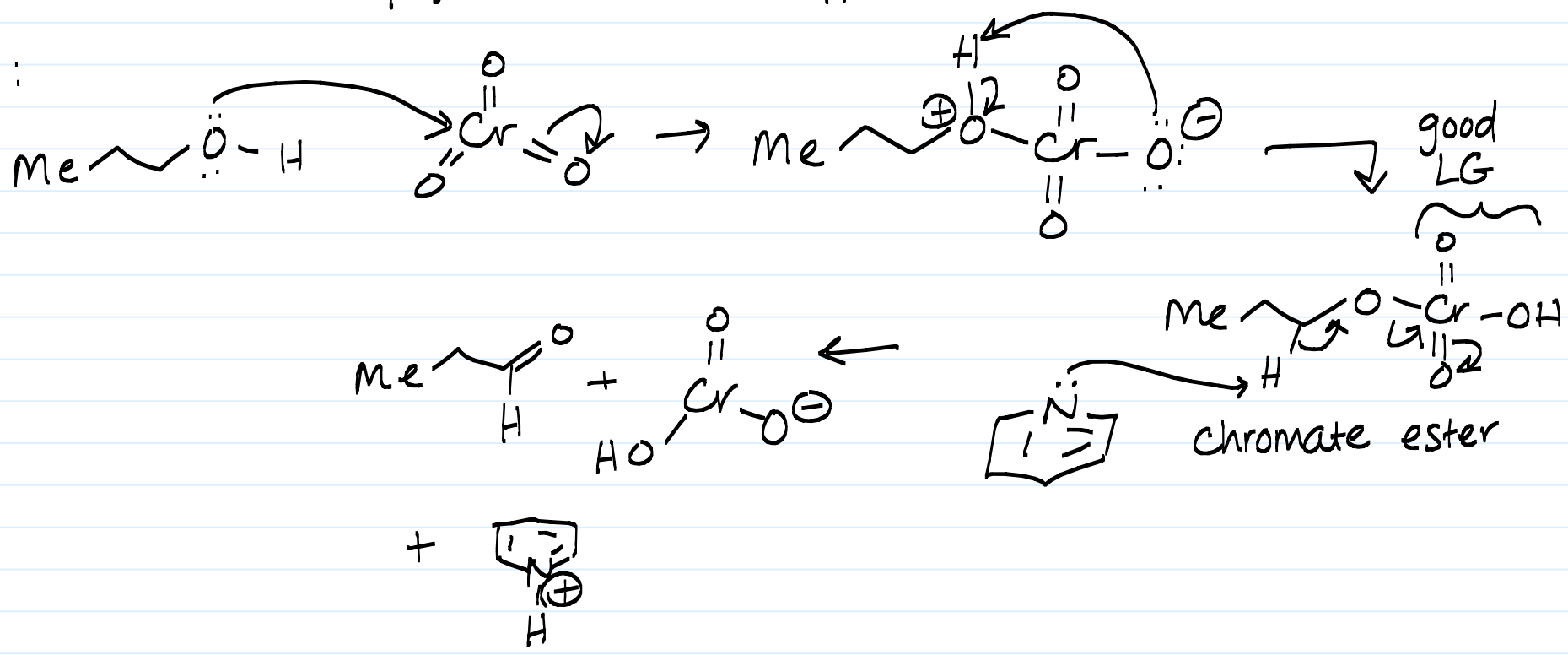
a)  $\text{CrO}_3$ ,  (No  $\text{H}_2\text{O}$ !)

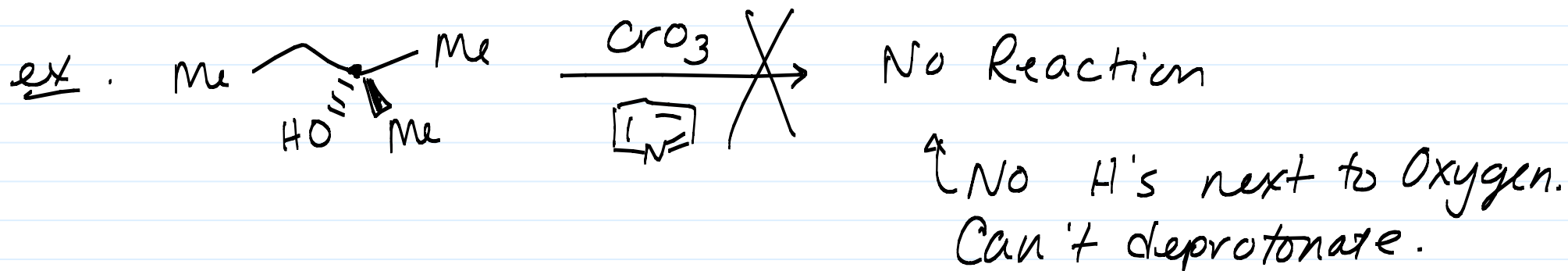
$1^\circ$  alcohol  $\rightarrow$  aldehyde

$2^\circ$  alcohol  $\rightarrow$  ketone



Mech:





b)  $\text{Na}_2\text{Cr}_2\text{O}_7$ ,  $\text{H}_2\text{SO}_4$ ,  $\text{H}_2\text{O}$

↑ sodium dichromate

1° alcohol → carboxylic acid

2° alcohol → ketone

