

# Oxidation Numbers

Summary: An atom connected to a **more** eN atom = +1

An atom connected to a **less** eN atom = -1

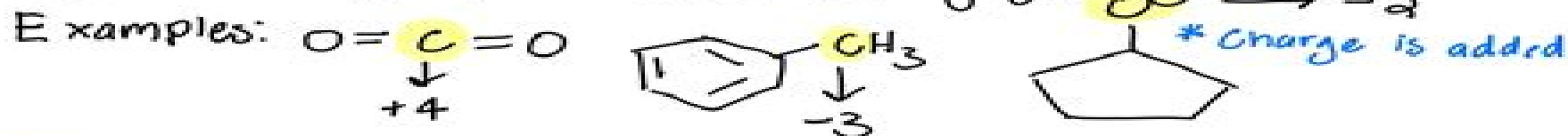
An atom connected the **same** atom = 0

\* Number of bonds must be taken into account

\* Charge is also incorporated into oxidation number

Oxidation number  $\uparrow$  = Oxidized = reducing agent

Oxidation number  $\downarrow$  = reduced = oxidizing agent



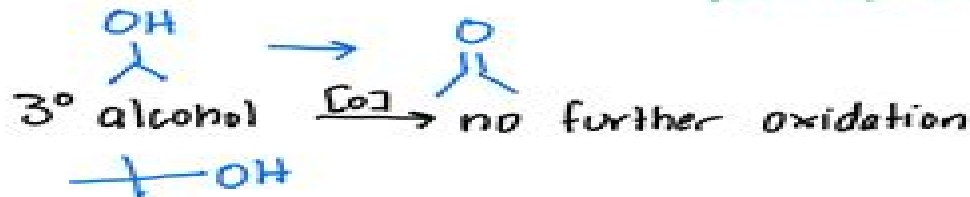
## Oxidation Reactions

Summary: 1° alcohol  $\xrightarrow{[\text{O}]}$  aldehyde  $\xrightarrow[\text{H}_2\text{O}]{\text{must be wet } [\text{O}]}$  carboxylic acid

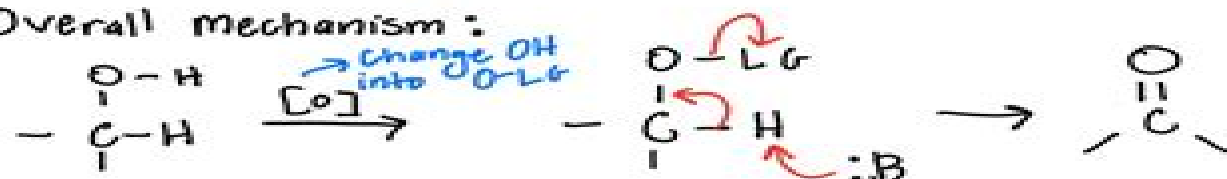


1° alcohol  $\xrightarrow{[\text{O}]}$  aldehyde must be dry

2° alcohol  $\xrightarrow{[\text{O}]}$  ketone can be either wet or dry



Overall mechanism:



# Organic Chem Phenol Study Guide

**Harry Linn Fisher**



## Organic Chem Phenol Study Guide:

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*Study Guide and Solutions Manual to Accompany Fundamentals of Organic Chemistry* John McMurry, Susan McMurry, 1986

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*Organic Chemistry Study Guide & Problems Book* Brent L. Iverson, 1998 Companion to Organic chemistry 2nd ed by William H Brown Provides a detailed section by section overview of the major points covered in the text All of the problems from the text are reprinted here with detailed stepwise solutions

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