

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

Examples: $O=C=O$

+4



Oxidation Reactions

Summary: 1° alcohol $\xrightarrow{[Co]}$ aldehyde $\xrightarrow{[Co] H_2O}$ carboxylic acid



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

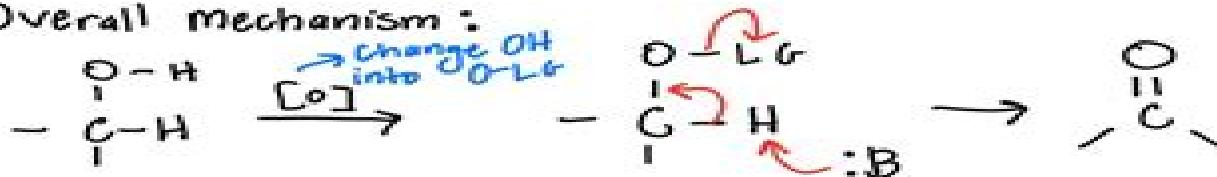
2° alcohol $\xrightarrow{[Co]}$ ketone can be either wet or dry



3° alcohol $\xrightarrow{[Co]}$ no further oxidation



Overall mechanism:



Organic Chem Phenol Study Guide

T. W. Graham Solomons

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