

Oxidation Numbers

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

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

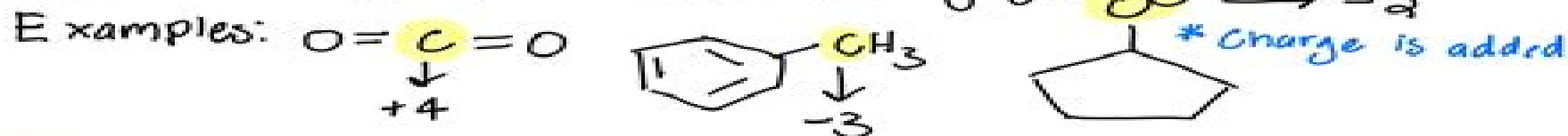
An atom connected the **same** atom = 0

* 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



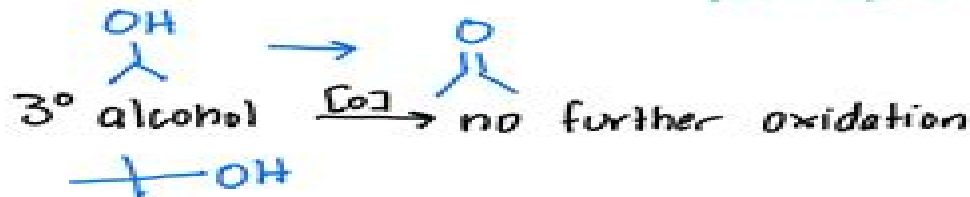
Oxidation Reactions

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

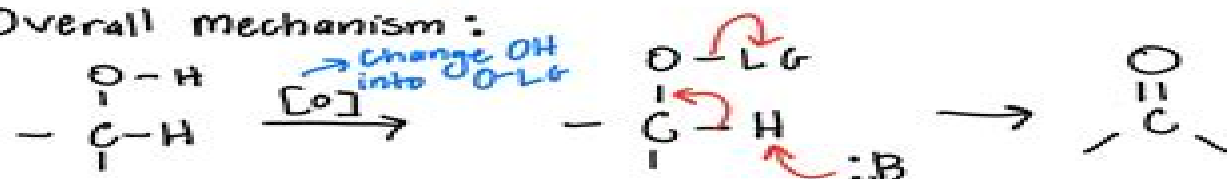


1° alcohol $\xrightarrow{[\text{O}]}$ aldehyde must be dry

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



Overall mechanism:



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G Psacharopoulos



Organic Chem Phenol Study Guide:

A Self-study Guide to the Principles of Organic Chemistry Jiben Roy, 2013 A Self Study Guide to the Principles of Organic Chemistry Key Concepts Reaction Mechanisms and Practice Questions for the Beginner will help students new to organic chemistry grasp the key concepts of the subject quickly and easily as well as build a strong foundation for future study Starting with the definition of atom the author explains molecules electronic configuration bonding hydrocarbons polar reaction mechanisms stereochemistry reaction varieties organic spectroscopy aromaticity and aromatic reactions biomolecules organic polymers and a synthetic approach to organic compounds The over one hundred diagrams and charts contained in this volume will help students visualize the structures and bonds as they read the text and make the logic of organic chemistry clear and easily understood Each chapter ends with a list of frequently asked questions and answers followed by additional practice problems Answers are included in the Appendix

Fundamentals of Organic Chemistry, Textbook, Study Guide and Solutions Manual T. W. Graham Solomons, 1996-08-15 A realistic approach to the study of mechanisms The book addresses real functional group chemistry with an emphasis on the biological environmental and medical applications of organic chemistry

Organic Chemistry, 4e Student Solution Manual and Study Guide David R. Klein, 2021-01-07 Success in organic chemistry requires mastery in two core aspects fundamental concepts and the skills needed to apply those concepts and solve problems With Organic Chemistry Student Solution Manual and Study Guide 4th Edition students can learn to become proficient at approaching new situations methodically based on a repertoire of skills These skills are vital for successful problem solving in organic chemistry

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discusses various properties of phenolic composites and presents comparative study with other polymer composites for prospective applications The chapters in the book present an up to date information on the subject area of polymer and composite based information by prominent researchers in academia and industry as well as government private research laboratories across the world The book serves as a holistic reference source for university and college faculties professionals postdoctoral research fellows undergraduate graduate students and research and science officers working in the area of polymer science non forest products utilization natural fibres and biomass materials

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