

CHAPTER

08

REDOX REACTION

- + The chemical reaction which contain oxidation as well as reduction half reaction is called redox reaction.
- + An atom or ion or molecule which undergoes reduction (gain of electrons) is called oxidant (while an atom or molecule which undergoes oxidation) (loss of electrons) is called reductant.
- + Oxygen shows positive oxidation states (+1 and +2) only in OF_2 and O_2F_2 .
- + Maximum oxidation state of an element never more than its group number.
- + a) Oxidation state of Mn in $KMnO_4$ is +7.
b) Oxidation state of Cr in $K_2Cr_2O_7$ is +6.
c) Oxidation state of Cr in CrO_3 is +6.
- + a) Oxidation state of 'N' in N_2H_4 is -1/3.
b) Oxidation state of 'N' in NH_4NO_3 (NH_4^+ and NO_3^-) are -3 and +5.
- + a) Oxidation state of 'Fe' in $FeSO_4$ is +2.
b) Oxidation state of 'Fe' in Fe_3O_4 is +8/3.
- + In $xMnO_4^- + yH_2O + zI^- \rightarrow 2MnO_2 + 8OH^- + 3I_2$
 $x = 2, y = 4, z = 6$
- + In reaction of $P_4 + xH_2O + yOH^- \rightarrow PH_3 + zH_2PO_4^-$
 $x = 3, y = 3, z = 3$ (i.e. $x = y = z$)
- + $CH_4 + 2O_2 \rightarrow CO_2 + 2H_2O$ is an example for chemical combustion.
- + In all combustion reactions oxygen undergoes reduction (0 to -2).
- + In decomposition reaction chemical compound split into two or more simpler substances.
 $[2H_2O \rightarrow 2H_2 + O_2]$
- + In decomposition of $MgCO_3$, no changes in oxidation numbers. So it is not a redox reaction
 $[MgCO_3 \rightarrow MgO + CO_2]$
- + $Zn_{(s)} + CuSO_{4(aq)} \rightarrow ZnSO_{4(aq)} + Cu_{(s)}$ is a displacement reaction.
- + In disproportionation reaction the same element undergoes both oxidation and reduction simultaneously.
- + When Br_2 and I_2 dissolve in CCl_4 solvent to give reddish brown and purple colours respectively. So, they are detected by extracting into CCl_4 . This is also called "Layer Test".
- + Comproportionation is a reverse of disproportionation reaction

Redox Reactions Chapter Study

Ying-Ying Zheng



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Chemistry, Student Study Guide James E. Brady, Fred Senese, 2008-01-28 The image on the front cover depicts a carbon nanotube emerging from a glowing plasma of hydrogen and carbon as it forms around particles of a metal catalyst Carbon nanotubes are a recently discovered allotrope of carbon Three other allotropes of carbon buckyballs graphite and diamond are illustrated at the left as is the molecule methane CH₄ from which nanotubes and buckyballs can be made The element carbon forms an amazing number of compounds with structures that follow from simple methane found in natural gas to the complex macromolecules that serve as the basis of life on our planet The study of chemistry also follows from the simple to the more complex and the strength of this text is that it enables students with varied backgrounds to proceed together to significant levels of achievement

Computational Methods to Study the Structure and Dynamics of Biomolecules and Biomolecular Processes Adam Liwo, 2018-12-19 This book provides a comprehensive overview of modern computer based techniques for analyzing the structure properties and dynamics of biomolecules and biomolecular processes It is organized in four main parts the first one deals with methodology of molecular simulations the second one with applications of molecular simulations the third one introduces bioinformatics methods and the use of experimental information in molecular simulations the last part reports on selected applications of molecular quantum mechanics This second edition has been thoroughly revised and updated to include the latest progresses made in

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Handbook of Environmental Isotope Geochemistry Mark Baskaran, 2011-10-13 Applications of radioactive and stable isotopes have revolutionized our understanding of the Earth and near earth surface processes The utility of the isotopes are ever increasing and our sole focus is to bring out the applications of these isotopes as tracers and chronometers to a wider audience so that they can be used as powerful tools to solve environmental problems New developments in this field remain mostly in peer reviewed journal articles and hence our goal is to synthesize these findings for easy reference for

students faculty regulators in governmental and non governmental agencies and environmental companies While this volume maintains its rigor in terms of its depth of knowledge and quantitative information it contains the breadth needed for wide variety problems and applications in the environmental sciences This volume presents all of the newer and older applications of isotopes pertaining to the environmental problems in one place that is readily accessible to readers This book not only has the depth and rigor that is needed for academia but it has the breadth and case studies to illustrate the utility of the isotopes in a wide variety of environments atmosphere oceans lakes rivers and streams terrestrial environments and sub surface environments and serves a large audience from students and researchers regulators in federal state and local governments and environmental companies

A Study of Enzymes, Volume II Stephen A. Kuby, 2024-12-20 This comprehensive monograph consists of two parts Volume I entitled Enzyme Catalysis Kinetics and Substrate Binding and Volume II entitled Mechanism of Enzyme Action Volume I focuses on several aspects of enzyme catalytic behavior their steady state and transient state kinetics and the thermodynamic properties of substrate binding Packed with figures tables schemes and photographs this volume contains over 1 000 references including references regarding enzymology s fascinating history This comprehensive book is of particular interest to enzymology students teachers and researchers Volume II presents selected cutting edge examples of techniques and approaches being pursued in biochemistry This up to date resource includes 11 chapters which illustrate important theoretical and practical aspects of enzyme mechanisms It also features selected examples in which today s most important techniques ideas and theories are used to elaborate on the intricate nature of enzyme action mechanisms This particular volume provides important information for both the novice and the seasoned investigator

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Methods for Studying Nucleic Acid/Drug Interactions

Meni Wanunu, Yitzhak Tor, 2016-04-19 Since most therapeutic efforts have been predominantly focused on pharmaceuticals that target proteins there is an unmet need to develop drugs that intercept cellular pathways that critically involve nucleic acids Progress in the discovery of nucleic acid binding drugs naturally relies on the availability of analytical methods that assess the eff

A Study of Enzymes Stephen A. Kuby, 1990-11-16 This comprehensive monograph consists of two parts

Volume I entitled Enzyme Catalysis Kinetics and Substrate Binding and Volume II entitled Mechanism of Enzyme Action

Volume I focuses on several aspects of enzyme catalytic behavior their steady state and transient state kinetics and the thermodynamic properties of substrate binding Packed with figures tables schemes and photographs this volume contains

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