

## 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  $N_3H$  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  $P_4 + xH_2O + yOH^- \rightarrow PH_3 + zH_2PO_2^-$   
 $x = 3, y = 3, z = 3$  (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".
- + Comproportion is a reverse of disproportionation reaction

# Redox Reactions Chapter Study

**M Tight**



## Redox Reactions Chapter Study:

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CBSE Chemistry Chapterwise Case Study Class 11 Priti Singhal, 2024-11-17 This book is structured to align with the latest syllabus and curriculum guidelines ensuring that the content is both relevant and rigorous Each chapter begins with a clear set of learning objectives providing a roadmap for students to understand what they will achieve by the end of the chapter We have included numerous diagrams illustrations and real life examples to make complex concepts more accessible and engaging      Class 9 Biology Questions and Answers PDF Arshad Iqbal, The Class 9 Biology Quiz Questions and Answers PDF Grade 9 Biology Competitive Exam Questions Chapter 1 9 Practice Tests Class 9 Biology Textbook Questions for Beginners includes revision guide for problem solving with hundreds of solved questions Class 9 Biology Questions and Answers PDF book covers basic concepts analytical and practical assessment tests Class 9 Biology Quiz PDF book helps to practice test questions from exam prep notes The Grade 9 Biology Quiz Questions and Answers PDF eBook includes revision guide with verbal quantitative and analytical past papers solved tests Class 9 Biology Questions and Answers PDF Free download chapter 1 a book covers solved common questions and answers on chapters Biodiversity bioenergetics biology problems cell cycle cells and tissues enzymes introduction to biology nutrition transport tests for school and college revision guide Biology Interview Questions and Answers PDF Download free eBook s sample covers beginner s solved questions textbook s study notes to practice online tests The Class 9 Biology Interview Questions Chapter 1 9 PDF book includes high school question papers to review practice tests for exams Class 9 Biology Practice Tests a textbook s revision guide with chapters tests for NEET MCAT MDCAT SAT ACT competitive exam 9th Grade Biology Questions Bank Chapter 1 9 PDF book covers problem solving exam tests from biology textbook and practical eBook chapter wise as Chapter 1 Biodiversity Questions Chapter 2 Bioenergetics Questions Chapter 3 Biology Problems Questions Chapter 4 Cell Cycle Questions Chapter 5 Cells and Tissues Questions Chapter 6 Enzymes Questions Chapter 7 Introduction to Biology Questions Chapter 8 Nutrition Questions Chapter 9 Transport Questions The Biodiversity Quiz Questions PDF e Book Chapter 1 interview questions and answers on Biodiversity conservation of biodiversity biodiversity classification loss and conservation of biodiversity binomial nomenclature classification system five kingdom kingdom Animalia kingdom plantae and kingdom protista The Bioenergetics Quiz Questions PDF e Book Chapter 2 interview questions and answers on Bioenergetics and ATP aerobic and anaerobic respiration respiration ATP cells energy currency energy budget of respiration limiting factors of photosynthesis mechanism of photosynthesis microorganisms oxidation reduction reactions photosynthesis process pyruvic acid and redox reaction The Biology Problems Quiz Questions PDF e Book Chapter 3 interview questions and answers on Biological method biological problems biological science biological solutions solving biology problems The Cell Cycle Quiz Questions PDF e Book Chapter 4 interview questions and answers on Cell cycle chromosomes meiosis phases of meiosis mitosis significance of mitosis

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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  $\text{CH}_4$  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

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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 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

Undergraduate Instrumental Analysis Thomas J. Bruno,James W. Robinson,George M. Frame II,Eileen M. Skelly Frame,2023-07-31 Analytical instrumentation is crucial to research in molecular biology medicine geology food science materials science forensics and many other fields Undergraduate Instrumental Analysis 8th Edition provides the reader with an understanding of all major instrumental analyses and is unique in that it starts with the fundamental principles and then develops the level of sophistication that is needed to make each method a workable tool for the student Each chapter includes a discussion of the fundamental principles underlying each technique detailed descriptions of the instrumentation and a large number of applications Each chapter includes an updated bibliography and problems and most chapters have suggested experiments appropriate to the technique This edition has been completely updated revised and expanded The order of presentation has been changed from the 7th edition in that after the introduction to spectroscopy UV Vis is discussed This order is more in keeping with the preference of most instructors Naturally once the fundamentals are introduced instructors are free to change the order of presentation Mathematics beyond algebra is kept to a minimum but for the interested student in this edition we provide an expanded discussion of measurement uncertainty that uses elementary calculus although a formula approach can be used with no loss of context Unique among all instrumental analysis texts we explicitly discuss safety up front in Chapter 2 The presentation intentionally avoids a finger wagging thou shalt not approach in favor of a how to

discussion of good laboratory and industrial practice It is focused on hazards and remedies that might be encountered in the use of instrumentation Among the new topics introduced in this edition are Photoacoustic spectroscopy Cryogenic NMR probes and actively shielded magnets The nature of mixtures in the context of separations Troubleshooting and leaks in high vacuum systems such as mass spectrometers Instrumentation laboratory safety Standard reference materials and standard reference data In addition the authors have included many instrument manufacturer s websites which contain extensive resources We have also included many government websites and a discussion of resources available from National Measurement Laboratories in all industrialized countries Students are introduced to standard methods and protocols developed by regulatory agencies and consensus standards organizations in this context as well

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