
ACS Gen Chem 1 Exam

Ion - A species of an element in which the number of electrons does not equal the number of protons.

Isotope - Each isotope of an atom has a different number of neutrons.

Isoelectric - Two atoms with the same charge.

Isotopic - Two atoms with the same number of neutrons.

Transition Metal Orbitals - The 4s orbital is filled before the 3d orbital, but listed after.

Paramagnetic - Atoms that possess a permanent magnetic charge due to the presence of unpaired electrons.

Electropositive - Tending to lose electrons and form positive ions.

Tetrahedral Bond Angle - 109.5°

Resonance Structures - Two equally correct arrangements of one molecule's electrons; generally the molecule exists as an average of the two.

Polar Molecule - A molecule that is mostly positive on one side and mostly negative on the other.

sp^3 Orbital - An orbital composed of one s orbital and three p orbitals; can hold eight total electrons. Tetrahedral.

Trigonal Planar - The way that three objects will arrange themselves around a central atom. Non-polar.

Free Radicals - Compounds with an odd number of electrons in their Lewis Structure. Eg. NO_2

Incomplete Octets - Occur in elements that can form stable bonds with less than eight electrons. Eg. BF_3

Expanded Octets - Occur in the third row of the periodic table and beyond in elements that can form stable bonds with more than eight electrons. Eg. XeF_2

Hydrogen Bonding - When hydrogen is attracted to electronegative atoms.

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**Examinations Institute-American
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EUBANKS, 2018-10-15 This guide is separated into first term and second term general chemistry material Each section contains 8 chapters of material that also aligns to most general chemistry textbooks for a seamless addition to study materials for students Each chapter is designed with an introductory section of the material including common representations and where to find this material in a textbook The second section provides worked examples of typical multiple choice questions including how the correct answer is determined as well as how the incorrect answers were determined Also included for each study problem is a listing of the corresponding practice questions that use that concept The final section is a series of practice problems to test the concepts collectively The key is provided on a separate page for all study and practice problems **ACS Organic Chemistry Study Guide 2025-2026 - 2 Full-Length Practice Tests, ACS Secrets Exam Prep Book** Matthew Bowling, 2025-08-09 Mometrix Test Preparation s ACS Organic Chemistry Study Guide ACS Secrets Exam Prep Book is the ideal prep solution for anyone who wants to pass their ACS Organic Chemistry Exam The exam is extremely challenging and thorough test preparation is essential for success Our study guide includes 2 practice tests available in online interactive format All 2 of these printed in the guide Tips and strategies to help you get your best test performance A complete review of all organic chemistry test sections ACS is a registered trademark of the American Chemical Society which is not affiliated with Mometrix Test Preparation and does not endorse this product The Mometrix guide is filled with the critical information you will need in order to do well on your organic chemistry exam the concepts procedures principles and vocabulary that the American Chemical Society ACS Examinations Institute expects you to have mastered before sitting for your exam Sections include Structure Acids and Bases Nucleophilic Substitution Reactions Elimination Reactions Addition and Other Reactions Spectroscopy Radical Reactions Conjugated Systems and Aromaticity

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[Chemists' Guide to Effective Teaching](#) Norbert J. Pienta, Melanie M. Cooper, Thomas J. Greenbowe, 2005 For courses in Methods of Teaching Chemistry Useful for new professors chemical educators or students learning to teach chemistry Intended for anyone who teaches chemistry or is learning to teach it this book examines applications of learning theories presenting actual techniques and practices that respected professors have used to implement and achieve their goals Each chapter is written by a chemist who has expertise

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