

Chemistry Study Guide Chapter 4 - Key

1. Define the following terms: (a) atom, (b) atomic number, (c) mass number, (d) isotopes (give 2 definitions), (e) atomic mass unit (amu), (f) nucleus, (g) spectroscopy, (h) ground state, (i) excited state, (j) atomic mass, (k) quantum leap, (l) photon.

- (a) **Atom:** the smallest particle of an element that still has the element's properties.
- (b) **Atomic number:** the number of protons in the nucleus of an atom.
- (c) **Mass number:** the number of protons plus the number of neutrons in an atom.
- (d) **Isotopes:** Atoms with the same atomic number but different mass numbers or atoms with the same number of protons but a different number of neutrons.
- (e) **Atomic mass unit (amu):** small unit of mass used to measure atoms, subatomic particles, etc.
- (f) **Nucleus:** small, dense, positively charged core of an atom containing protons and neutrons.
- (g) **Spectroscopy:** the study of spectra produced by the excitation of atoms, especially experimental observation of optical spectra used to determine a substance's identity.
- (h) **Ground state:** the state of lowest energy for an atom.
- (i) **Excited state:** any state of higher energy for an atom.
- (j) **Atomic mass:** the weighted average of all the isotopes of an element.
- (k) **Quantum Leap:** change of an electron from one energy state to another within an atom.
- (l) **Photon:** small packets of electromagnetic energy

2. Compare and contrast electrons, protons, and neutrons in terms of mass, charge and location.

PARTICLE	SYMBOL	CHARGE	MASS (amu)	LOCATION
electron	e^{-}	-1	≈ 0	orbit nucleus
proton	p^{+}	+1	≈ 1	inside nucleus
neutron	n^{0}	0	≈ 1	inside nucleus

3. What are the units used to express (a) wavelength, (b) frequency.

- (a) **any units of length** (b) **cycles/second or hertz.**

4. Compare/contrast x-rays and infrared radiation in terms of their speed, wavelength, frequency and energy.

Both move at the speed of light however x-rays have shorter wavelengths which give them higher frequencies and energies than infrared radiation.

Chapter 4 Chemistry Study Guide Answers

Iris Stovall, Donald J. DeCoste



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molecular architecture of Taxol synthetic organic chemists fiercely undertook efforts to synthesize it Five total syntheses of Taxol have thus far been reported Now a combination of isolation of a related metabolite from European yew needles and synthesis of Taxol from that intermediate supply the clinical demand This case clearly demonstrates the importance of synthesis and the use of organic chemistry It s just one of the many examples used in the text that will spark the interest of students and get them involved in the study of organic chemistry

Student Study Guide Fundamentals of Chemistry by David E. Goldberg Margaret G. Kimble,1994 **General Chemistry Study Guide Sixth Edition** Darrell D. Ebbing,1999

Student Study Guide and Solutions Manual to accompany General Organic and Biological Chemistry, 1e Kenneth W. Raymond,2005-10-07 Finally readers have a shorter less intimidating introduction to general organic and biological chemistry Not only is Raymond s text concise it also takes an integrated approach to presenting important topics in a way that makes the material easier to understand In this approach similarities can be exploited and concepts reinforced The result is that readers see the strong connections that exist between these three branches of chemistry

Study Guide and Solutions Book Harold Hart,1983 **Organic Chemistry, Study Guide** T. W. Graham Solomons,1988-03-08 This class tested text reflects the refinements made in previous editions while expanding updating and adding new information on many important topics Adopting a bio organic emphasis it introduces functional groups early in the text providing an overview of and preparation for subsequent discussions This edition includes increased coverage of Carbon 13 spectra an expanded treatment of conformational effects of molecules with two sections covering basic geometries of molecules and an in depth overview of the subject plus new material on transition metal chemistry and carbohydrate metabolism Worked out examples have been added to chapters on synthesis and end of chapter problems have been expanded by more than 200 The text also includes exceptional full color graphics illustrating conformational effects and general stereochemical properties of organic substances

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Study Guide for Introductory Chemistry Iris Stovall, 1990 **Study Guide, Introductory Chemistry, a Foundation ; Introductory Chemistry ; Basic Chemistry** Iris Stovall, Donald J. DeCoste, 2000

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