

# A&P Key Terms

## 02 Chemical

### Level of

# Organization

Author: OpenStax College

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## 4. Chapter: A&P Key Terms 02 Chemical Level of Organization

### 1. A&P Key Terms 02 Chemical Level of Organization Questions

<u>acid</u>	compound that releases hydrogen ions (H+) in solution
<u>activation energy</u>	amount of energy greater than the energy contained in the reactants, which must be overcome for a reaction to proceed
<u>adenosine triphosphate (ATP)</u>	nucleotide containing ribose and an adenine base that is essential in energy transfer
<u>amino acid</u>	building block of proteins; characterized by an amino and carboxyl functional groups and a variable side-chain
<u>anion</u>	atom with a negative charge
<u>atom</u>	smallest unit of an element that retains the unique properties of that element
<u>atomic number</u>	number of protons in the nucleus of an atom
<u>base</u>	compound that accepts hydrogen ions (H+) in solution
<u>bond</u>	electrical force linking atoms
<u>buffer</u>	solution containing a weak acid or a weak base that opposes wide fluctuations in the pH of body fluids
<u>carbohydrate</u>	class of organic compounds built from sugars, molecules containing carbon, hydrogen, and oxygen in a 1-2-1 ratio
<u>catalyst</u>	substance that increases the rate of a chemical reaction without itself being changed in the process
<u>cation</u>	atom with a positive charge
<u>chemical energy</u>	form of energy that is absorbed as chemical bonds form, stored as they are maintained, and released as they are broken
<u>colloid</u>	liquid mixture in which the solute particles consist of clumps of molecules large enough to scatter light
<u>compound</u>	substance composed of two or more different elements joined by chemical bonds
<u>concentration</u>	number of particles within a given space
<u>covalent bond</u>	chemical bond in which two atoms share electrons, thereby completing their valence shells

<u>decomposition reaction</u>	type of catabolic reaction in which one or more bonds within a larger molecule are broken, resulting in the release of smaller molecules or atoms
<u>denaturation</u>	change in the structure of a molecule through physical or chemical means
<u>deoxyribonucleic acid (DNA)</u>	deoxyribose-containing nucleotide that stores genetic information
<u>disaccharide</u>	pair of carbohydrate monomers bonded by dehydration synthesis via a glycosidic bond
<u>disulfide bond</u>	covalent bond formed within a polypeptide between sulfide groups of sulfur-containing amino acids, for example, cysteine
<u>electron shell</u>	area of space a given distance from an atom's nucleus in which electrons are grouped
<u>electron</u>	subatomic particle having a negative charge and nearly no mass; found orbiting the atom's nucleus
<u>element</u>	substance that cannot be created or broken down by ordinary chemical means
<u>enzyme</u>	protein or RNA that catalyzes chemical reactions
<u>exchange reaction</u>	type of chemical reaction in which bonds are both formed and broken, resulting in the transfer of components
<u>functional group</u>	group of atoms linked by strong covalent bonds that tends to behave as a distinct unit in chemical reactions with other atoms
<u>hydrogen bond</u>	dipole-dipole bond in which a hydrogen atom covalently bonded to an electronegative atom is weakly attracted to a second electronegative atom
<u>inorganic compound</u>	substance that does not contain both carbon and hydrogen
<u>ionic bond</u>	attraction between an anion and a cation
<u>ion</u>	atom with an overall positive or negative charge
<u>isotope</u>	one of the variations of an element in which the number of neutrons differ from each other
<u>kinetic energy</u>	energy that matter possesses because of its motion

<u>lipid</u>	class of nonpolar organic compounds built from hydrocarbons and distinguished by the fact that they are not soluble in water
<u>macromolecule</u>	large molecule formed by covalent bonding
<u>mass number</u>	sum of the number of protons and neutrons in the nucleus of an atom
<u>matter</u>	physical substance; that which occupies space and has mass
<u>molecule</u>	two or more atoms covalently bonded together
<u>monosaccharide</u>	monomer of carbohydrate; also known as a simple sugar
<u>neutron</u>	heavy subatomic particle having no electrical charge and found in the atom's nucleus
<u>nucleotide</u>	class of organic compounds composed of one or more phosphate groups, a pentose sugar, and a base
<u>organic compound</u>	substance that contains both carbon and hydrogen
<u>pH</u>	negative logarithm of the hydrogen ion (H <sup>+</sup> ) concentration of a solution
<u>peptide bond</u>	covalent bond formed by dehydration synthesis between two amino acids
<u>periodic table of the elements</u>	arrangement of the elements in a table according to their atomic number; elements having similar properties because of their electron arrangements compose columns in the table, while elements having the same number of valence shells compose rows in the table
<u>phospholipid</u>	a lipid compound in which a phosphate group is combined with a diglyceride
<u>phosphorylation</u>	addition of one or more phosphate groups to an organic compound
<u>polar molecule</u>	molecule with regions that have opposite charges resulting from uneven numbers of electrons in the nuclei of the atoms participating in the covalent bond
<u>polysaccharide</u>	compound consisting of more than two carbohydrate monomers bonded by dehydration synthesis via glycosidic bonds

<a href="#">potential energy</a>	stored energy matter possesses because of the positioning or structure of its components
<a href="#">product</a>	one or more substances produced by a chemical reaction
<a href="#">prostaglandin</a>	lipid compound derived from fatty acid chains and important in regulating several body processes
<a href="#">protein</a>	class of organic compounds that are composed of many amino acids linked together by peptide bonds
<a href="#">proton</a>	heavy subatomic particle having a positive charge and found in the atom's nucleus
<a href="#">purine</a>	nitrogen-containing base with a double ring structure; adenine and guanine
<a href="#">pyrimidine</a>	nitrogen-containing base with a single ring structure; cytosine, thiamine, and uracil
<a href="#">radioactive isotope</a>	unstable, heavy isotope that gives off subatomic particles, or electromagnetic energy, as it decays; also called radioisotopes
<a href="#">reactant</a>	one or more substances that enter into the reaction
<a href="#">ribonucleic acid (RNA)</a>	ribose-containing nucleotide that helps manifest the genetic code as protein
<a href="#">solution</a>	homogeneous liquid mixture in which a solute is dissolved into molecules within a solvent
<a href="#">steroid (also, sterol)</a>	lipid compound composed of four hydrocarbon rings bonded to a variety of other atoms and molecules
<a href="#">substrate</a>	reactant in an enzymatic reaction
<a href="#">suspension</a>	liquid mixture in which particles distributed in the liquid settle out over time
<a href="#">synthesis reaction</a>	type of anabolic reaction in which two or more atoms or molecules bond, resulting in the formation of a larger molecule
<a href="#">triglyceride</a>	lipid compound composed of a glycerol molecule bonded with three fatty acid chains
<a href="#">valence shell</a>	outermost electron shell of an atom