

IONIC & COVALENT BONDS

Name:

Date:

Period:

An _____ is the attraction between two oppositely charged ions. The chemical bond formed when two atoms share electrons is called a _____. Covalent bonds usually form between atoms of _____ and ionic bonds usually form when a _____ combines with a _____.

Activity A: How Do Ions Form?

Procedure:

1. Place three pairs of checkers (three red and three black) on your desk. The red represent electrons and the black represent protons.
2. Place nine pairs of checkers (nine red and nine black) in a separate group on your desk.
3. Move a red checker from the smaller group to the larger group.
4. Count the number of positive charges (protons) and negative charges (electrons) in each group.
5. Now sort the checkers into a group of four pairs and a group of eight pairs. Repeat Steps 3 and 4, this time moving two red checkers from the smaller group to the larger group.

Think it over:

1. What was the total charge on each group before you moved the red checkers (electrons)?
2. What was the charge on each group after you moved the checkers?
3. Based on this activity what do you think happens to the charge on an atom when it loses electrons?
4. Based on this activity what do you think happens to the charge on an atom when it gains electrons?

Activity B: Interpreting Data About Ions

Procedure:

1. Use the periodic table and the chart to the right to identify the charges of the ions in each ionic compound listed below.
2. Write the formulas for each compound.
 - a. sodium bromide;
 - b. lithium oxide;
 - c. magnesium sulfide;
 - d. aluminum fluoride;
 - e. potassium nitrate;
 - f. ammonium chloride

Ions and Their Charges		
Name	Charge	Symbol or Formula
Lithium	1+	Li^+
Sodium	1+	Na^+
Potassium	1+	K^+
Ammonium	1+	NH_4^+
Calcium	2+	Ca^{2+}
Magnesium	2+	Mg^{2+}
Aluminum	3+	Al^{3+}
Fluoride	1-	F^-
Chloride	1-	Cl^-
Iodide	1-	I^-
Bicarbonate	1-	HCO_3^-
Nitrate	1-	NO_3^-
Oxide	2-	O^{2-}
Sulfide	2-	S^{2-}
Carbonate	2-	CO_3^{2-}
Sulfate	2-	SO_4^{2-}
Phosphate	3-	PO_4^{3-}

Think it over:

1. How do you know how many of each ion to write in the formula?

Answer Key Ionic Bonds Review And Reinfore

Douglas P. Heller, Carl H. Snyder



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The Human Body in Health & Disease - Softcover6 Kevin T. Patton,Gary A. Thibodeau,2013-01-01 Rev ed of The human body in health disease Gary A Thibodeau Kevin T Patton 5th ed c2010 **Zwitterionic hydrogels and their biomedical applications: a review** Chengcheng Li,Hao Zheng,Xingguo Zhang,Zhihua Pu,Dachao Li,2024-03-04 The coexistence of anions and cations in zwitterionic hydrogels results in electrostatic interactions between the polymer chains This structure endows zwitterionic hydrogels with higher ion sensitivity and promising properties such as anti polyelectrolyte and thermosensitive effects Hydrophilic groups on the molecular backbone give zwitterionic hydrogels good biocompatibility and they effectively resist the non specific adsorption of proteins The abundant functional groups on the molecular skeleton also facilitate the chemical modification of zwitterionic hydrogels In recent years these excellent properties have made zwitterionic hydrogels broadly interesting and they have been heavily studied for medical applications A comprehensive review will help researchers have a deeper understanding of zwitterionic hydrogels and their potential applications In this review the types functional characteristics and applications in the biomedicine of zwitterionic hydrogels are summarized in detail In addition the challenges and opportunities for using zwitterionic hydrogels for biomedical applications are discussed

Chemical Interactions ,2005 **Ion Exchange Processes for Water and Environment Management** Amita Somya,Anish Khan,2025-07-15 This book presents theory principles and applications of ion exchangers for water and environment management It begins with an introduction ion exchange equilibrium kinetics of ion exchange process and fundamental properties of ion exchangers which make them appropriate in various applications The theories underlying the operation of ion exchange resins are explained as well as the production of resin products with groups adapted to specific ions or groups of ions including principles of ion exchange process different synthetic procedures of ion exchangers and characterization techniques and the role of ion exchangers with their specific characteristics This book is an invaluable tool to analytical chemists and researchers who are interested in the applications of ion exchange materials *In Situ Molecular Pathology and Co-expression Analyses* Gerard J. Nuovo,2020-09-03 Major advancements in the field of in situ molecular pathology have occurred since publication of the first edition In Situ Molecular Pathology and Co expression Analyses Second Edition continues to teach both the molecular basis for the improvements and the actual protocols This is the unique feature that separates it from the pack of other cook book type approaches The fields of in situ hybridization and immunohistochemistry have expanded rapidly where computer based analyses systems have greatly expanded the power of these methods Further knowledge of the marked improvements in the reagents themselves since the first edition can make

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Anatomy and Physiology for Health Professionals Jahangir Moini, 2015-01-21 Preceded by Anatomy and physiology for health professionals Jahangir Moini c2012

Basic & Clinical Pharmacology, Thirteenth Edition,

SMARTBOOK™ Bertram G. Katzung, Anthony J. Trevor, 2014-12-22 Gain a full understanding of the basic science and clinical use of drugs with the most up to date and comprehensive pharmacology text in the health sciences A Doody's Core Title for 2017 400 ILLUSTRATIONS MANY IN FULL COLOR Organized to reflect the course sequence in many pharmacology courses and in integrated curricula Basic Clinical Pharmacology covers the important concepts students need to know about the science of pharmacology and its application to clinical practice Selection of the subject matter and order of its presentation are based on the authors many years of experience in teaching this material to thousands of medical pharmacy dental podiatry nursing and other health science students Coverage that spans every aspect of medical pharmacology Encompasses every aspect of medical pharmacology including botanicals and over the counter drugs New chapter on pharmacogenomics with important examples Emphasis is placed on discussion of drug groups and prototypes Clinically relevant the book includes sections that specifically address the clinical choice and use of drugs in patients and the monitoring of their effects Full color presentation with more than 400 illustrations Case studies introduce clinical problems in most chapters Summary tables and diagrams encapsulate important information Includes many new drugs A Generic Name Trade Name Table appears at the end of most chapters for easy reference when writing a chart order or prescription *Basic and Clinical Pharmacology 12/E* *Inkling (ENHANCED EBOOK)* Bertram G. Katzung, Susan B. Masters, Anthony J. Trevor, 2012-03-22 The most up to date comprehensive and authoritative pharmacology text in health medicine Enhanced by more than three hundred illustrations many in full color Organized to reflect the syllabi in many pharmacology courses and in integrated curricula Basic Clinical Pharmacology 12e covers the important concepts students need to know about the science of pharmacology and its application to clinical practice Selection of the subject matter and order of its presentation are based on the authors many years experience in teaching this material to thousands of medical pharmacy dental podiatry nursing and other health science students To be as clinically relevant as possible the book includes sections that specifically address the clinical choice and use of drugs in patients and the monitoring of their effects and case studies that introduce clinical problems in many chapters Presented in full color and enhanced by more than three hundred illustrations Basic Clinical Pharmacology features numerous summary tables and diagrams that encapsulate important information Coverage that spans every aspect of medical pharmacology Basic principles Autonomic drugs Cardiovascular renal drugs Drugs with important actions on smooth muscles Central nervous system drugs Drugs used to treat anemias clotting disorders hyperlipidemia and inflammation and gout Endocrine drugs Chemotherapeutic and immunologic drugs Toxicology Special subjects perinatal geriatric and dermatologic pharmacology Botanical and food supplements and over the counter medications Prescribing Also in this edition Drug Summary Tables conclude most chapters providing a concise summary of the most important drugs General concepts relating to newly discovered receptors receptor mechanisms and drug transporters Descriptions of important new drugs including monoclonal antibodies **Papers Presented at the ... Meeting** American Chemical Society. Division of Polymer

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