

Reminders:

1. In a neutral atom the number of protons equals the number of electrons.
2. An atom can NEVER gain or lose protons.
3. The number of protons equals the atomic number.

Important!

NAME: _____

Answer Key**Ion Practice Set**

1. What is an ion?

or a charged ion - it can be positively charged (cation) or negatively charged (anion).

2. What does the number next to the ions signify?

the charge of the ion

Complete the following table, using the periodic table in the back of your book.

	ELEMENT NAME	ION SYMBOL	NUMBER OF PROTONS	NUMBER OF ELECTRONS	NUMBER OF ELECTRONS LOST OR GAINED
ex	Fluorine	F ⁻	9	10	gained one
1	Iodine	I ⁻	53	54	gained one
2	Sulfur	S ²⁻	16	16+2 = <u>18</u>	gained two
3	potassium	K ⁺¹	19	19-1 = <u>18</u>	lost one
4	Calcium	Ca ⁺²	20	20-2 = <u>18</u>	lost two
5	Bromine	Br ⁻	35	36	gained one
6	Strontium	Sr ⁺²	38	38-2 = <u>36</u>	lost two
7	Hydrogen	H ⁺	1	1-1 = <u>0</u>	lost one
8	Oxygen	O ²⁻	8	8+2 = <u>10</u>	gained two
9	Magnesium	Mg ⁺²	12	12-2 = <u>10</u>	lost two
10	aluminum	Al ⁺³	13	10	lost three
11	Selenium	Se ²⁻	34	36	gained two
12	Hydrogen	H ⁺	1	1+1 = <u>2</u>	gained one
13	lithium	Li ⁺¹	3	3-1 = <u>2</u>	lost one
14	Rubidium	Rb ⁺	37	37-1 = <u>36</u>	lost one
15	Chlorine	Cl ⁻	17	18	gained one

this means it has an extra electron

this means it has 2 more protons than electrons, so 2 electrons were lost!

Ion And Isotope Practice Set Answer Key

William A. Berggren



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The Practice of Chemistry Study Guide & Solutions Manual Pamela Mills, Amina El-Ashmawy, 2003-04-14 Designed to help students understand the material better and avoid common mistakes Also includes solutions and explanations to odd numbered exercises

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Steroids in the Laboratory and Clinical Practice John William Honour, 2023-08-02 Steroids in the Laboratory and Clinical Practice covers both basic chemistry and therapeutic application of steroids in a single source The comprehensive reference addresses the specificity of steroid determinations to clarify confusion arising from the laboratory results The book covers important advancements in the field and is a valuable addition in the literature addressing all existing knowledge gaps This is a must have reference for pathologists laboratorians endocrinologists analytical clinical chemists and biochemists Addresses the normal production of steroids and concentrations found in biological fluids and tissues Presents the changes in steroid concentrations at life events as reference points for clinical investigations Reviews the genetic disorders of steroids in relation to specific enzyme changes and clinical presentation

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Current Practice of Liquid

Chromatography-mass Spectrometry Wilfried M. A. Niessen,R. D. Voyksner,1998 Combined liquid chromatography mass spectrometry has a long history of promises and breakthroughs Many interfaces have been developed and commercialized over the past 25 years Most of these have subsequently disappeared again because of apparent problems e g moving belt direct liquid introduction and thermospray In the past few years a real breakthrough has been made and years of promises are redeemed Interfaces applied in combination with atmospheric pressure chemical ionization have changed LC MS especially with respect to ease of operation robustness detection limits and applicability ranges LC MS and related techniques have entered routine laboratories within pharmaceutical industries and related contract research institutes laboratories concerned with biochemistry biotechnology environmental analysis natural product research and many other areas Furthermore other mass analysers than linear triple quadrupole instruments have found extensive use From this perspective the editors have invited authors both from fundamental innovative instrumental and application oriented research groups to contribute papers to this special issue on Current Practice of LC MS All of these papers both review and research contributions were peer reviewed in the usual way The result is a clear perspective on the current practice of LC MS as well as on new instrumental developments taking place *McGraw-Hill Education SAT Subject Test Chemistry 4th Ed.* Thomas A. Evangelist,2016-01-01 Prepare for the SAT Chemistry test with the experts you trust This step by step guide will give you the knowledge and tools you need to succeed on this challenging exam You ll get essential skill building

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Isotopes and Radiation in Soil-plant Nutrition Studies, 1965 Soil Chemistry
Soil Physics Ion uptake and translocation Fertilizer usage Nuclear Science Abstracts, 1972 **Performance and durability of cementitious materials** Harald Justnes, 1997 **Russian Journal of Inorganic Chemistry**, 1972

Unlocking the Stratigraphical Record Peter Doyle, Matthew R. Bennett, 1998-07 Stratigraphy is the key to understanding the Earth its materials structure and past life By the authors of The Key to Earth History 1994 this book explores the advanced tools with which to order and interpret the stratigraphical record *INIS Atomindex*, 1996 **Geochronology, Time Scales and Global Stratigraphic Correlation** William A. Berggren, 1995 The last decade has witnessed significant advances in analytic techniques and methodologic approaches to understanding earth history This publication is a well constructed geochronologic framework that allows estimation of rates of geologic processes correlation of stratigraphies and placement of discrete events in temporal order Resulting from a research symposium at the 67th Annual SEPM meeting in New Orleans Louisiana April 1993 the 16 papers of this volume represent a broad spectrum of approaches to understanding earth history and the passage of geologic time *Books in Print*, 1981 Instrument Practice, 1955 Trace Analysis by Mass Spectrometry Arthur John Ahearn, 1972 Trace Analysis by Mass Spectrometry deals with trace analysis of solids and liquids by mass spectrometric techniques Topics include the physics and techniques of electrical discharge ion sources transmission of ions through double focusing mass spectrometers and detection and measurement of ions by ion sensitive plates The ion sources used are principally electrical discharge type sources This book is comprised of 14 chapters The first several chapters focus on the basic physics of electrical discharge ion sources double focusing mass spectrometry and the measurement of arrays of mass **Chemistry** James E. Brady, Fred Senese, 2004-02-04 Publisher Description

Encyclopedia of Food Science and Technology, 1991

Ion And Isotope Practice Set Answer Key: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels enthraling the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the engaging narratives that have charmed audiences this year. The Must-Read : Colleen Hoover "It Ends with Us" This poignant tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and suspenseful novel that will keep you guessing until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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