

POGIL 2 Ions

How are ions made from neutral atoms?

You have learned that not all atoms of an element are the same. Variation in the number of neutrons results in different isotopes of the element. In this activity we will explore another variation that can take place—the loss and gain of electrons. The exchange of electrons between atoms is a very common way for chemical change to take place. We will see it many times throughout the year.

1. Use Diagram 1 on the next page to complete the following table.

	Metal or Nonmetal	Number of protons in the atom	Number of protons in the ion	Number of neutrons in the atom	Number of neutrons in the ion	Number of electrons in the atom	Number of electrons in the ion	Charge on the ion
Lithium	metal	3	3	4	4	3	2	1+
Magnesium	<i>Metal</i>	12	12	12	12	12	10	2+
Aluminum	<i>Metalloid</i>	13	13	14	14	13	10	3+
Fluorine	<i>Non metal</i>	9	9	10	10	9	10	1-
Oxygen	nonmetal	8	8	8	8	8	10	2-
Nitrogen	<i>Non metal</i>	7	7	7	7	7	10	3-

2. Based on the table you completed in Question 1, what distinguishes a neutral atom from an ion?

A neutral atom has the same number of protons and electrons (no charge). An ion has a charge (# of protons does not equal # of electrons).

3. Examine the isotope symbols in Diagram 1.

- a. Where is the ion charge located in the isotope symbol?

Top right corner

- b. Is a charge indicated on the neutral atoms? If yes, where is it located?

No

4. Which subatomic particle carries a positive charge?

Protons are positive

5. Which subatomic particle carries a negative charge?

Electrons are negative

6. Propose a mathematical equation to calculate the charge on an ion from the number of protons and electrons in an ion. Confirm that your equation works using two positive ion examples and two negative ion examples from Diagram 1.

The charge of an ion = # of protons - # of electrons

Ions Pogil Answers

Eugen Illenberger, Jacques Momigny



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Organic Chemistry Suzanne M. Ruder, The POGIL Project, 2015-12-29 **ORGANIC CHEMISTRY** **Analytical Chemistry** Juliette Lantz, Renée Cole, The POGIL Project, 2014-12-31 An essential guide to inquiry approach instrumental analysis Analytical Chemistry offers an essential guide to inquiry approach instrumental analysis collection The book focuses on more in depth coverage and information about an inquiry approach This authoritative guide reviews the basic principles and techniques Topics covered include method of standard the microscopic view of electrochemistry calculating cell potentials the BerriLambert atomic and molecular absorption processes vibrational modes mass spectra interpretation and much more *Ions in Solution* Ronald Wilfrid Gurney, 1936 **Ions in Solution** R. W. Gurney, 1936 *Ions in Solution* Ronald Wilfrid Gurney, 1936 Ions and Light Michael T. Bowers, 2013-10-22 Gas Phase Ion Chemistry Volume 3 Ions and Light discusses how ions are formed by electron impact ion molecule reactions or electrical discharge This book discusses the use of light emitted by excited molecules to characterize either the chemistry that formed the excited ion the structure of the excited ion or both Organized into 10 chapters this volume begins with an overview of the extension of the classical flowing afterglow technique to include infrared and chemiluminescence and laser induced fluorescence detection This text then examines the experiments involving molecules that are isolated from collisions for periods exceeding several milliseconds Other chapters consider the photodetachment in negative ion beams and the chemical information that can be obtained from such studies This book discusses as well the electronic states of the open shell organic cations The final chapter deals with ion beam spectroscopy This book is a valuable resource for chemists and scientists **Negative Ions** Boris Mikhailovich Smirnov, 1982 **Gaseous Molecular Ions** Eugen Illenberger, Jacques Momigny, 1992 Most of the matter in our solar system and probably within the whole universe exists in the form of ionized particles On the other hand in our natural environment gaseous matter generally consists of neutral atoms and molecules Only under certain conditions such as within the path of lightning or in several technical devices e g gas discharges rocket engines etc will some of the atoms and molecules be ionized It is also believed that the chemistry of the earth's troposphere predominantly proceeds via reactions between neutral particles The complex system of atmospheric chemistry will be treated in one of the forthcoming volumes to this series Why then are ions considered so important that hundreds of laboratories all over the world including some of the most prestigious are involved in research programs on ions covering many different facets from biochemistry to physics One may obtain as many different answers as there are research groups busy in this field There is however one simple common feature which makes it attractive to work with ions since they carry one or more net elementary charges they can easily be guided focused or separated by appropriate electric and magnetic fields and last but not least they can easily be detected Apart from these advantages which are welcome and appreciated by the researcher the study of molecular ions can provide insight into very fundamental aspects of the general behavior of molecules **Large Ions** Tomas

Baer, Cheuk-Yiu Ng, Ivan Powis, 1996 Recent advances in both experimental techniques and theoretical methodologies have meant that increasingly sophisticated studies concerning the formation structures energetics and reaction dynamics of state or energy selected molecular ions can now be performed In order to better serve the ion chemistry and physics community each volume of this series is dedicated to reviewing a specific topic emphasizing new experimental and theoretical developments in the study of ions The Wiley Series in Ion Chemistry and Physics will help stimulate new research directions and point to future opportunities in the field of ion chemistry and physics This volume the sixth in the series concentrates on the area of large ions The production detection and analysis of large ions are areas which have taken on great importance in recent years in particular in the biomedical and biochemical fields The understanding of large ions presents unique and formidable challenges which are very different from those associated with the study of small ions This volume focuses on some of the fundamental chemistry and physics associated with the behavior of large ions with the contributors addressing the issues in a quantitative fashion in order to elucidate clearly some of the key recent advances which have taken place As such Large Ions Their Vaporization Detection and Structural Analysis provides an excellent snapshot of current research in this fascinating and important area The six chapters are written by some of the leading experts in the field and together they will be of great interest to experts and newcomers both of whom will benefit from the in depth discussion of the latest methods and results

On the Relationship Between the Charge of an Ion and Its Velocity Jacob Neufeld, 1957

The Theory of Ions William Tibbles, 1909 **Ions in Solution (1) (sound Recording).** John Burgess, 1984 Survey of Multiply Charged Ions Fred Loomis Mohler, 1964 **Complex Ions in Aqueous Solutions** Arthur Jaques, 1914 **Ions in Solution**, 1974 **Physics of Highly Charged Ions**, 1998 *Ions, Electrons, and Ionizing Radiations (Classic Reprint)* James Arnold Crowther, 2015-07-21 Excerpt from Ions Electrons and Ionizing Radiations N 0 charge has yet been observed which is smaller than that on the electron Every charge observed which is sufficiently small to be directly compared with that of the electron has been found to be an exact integral multiple of it We are thus led to the conclusion that electricity is atomic in structure the smallest possible unit of charge being that of the electron which thus constitutes our fundamental unit of electricity Moreover it can be shewn that the mass of the electron is entirely an electrical effect and is due solely to the charge which it carries The electron therefore constitutes a real atom of electricity About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books Find more at www.forgottenbooks.com This book is a reproduction of an important historical work Forgotten Books uses state of the art technology to digitally reconstruct the work preserving the original format whilst repairing imperfections present in the aged copy In rare cases an imperfection in the original such as a blemish or missing page may be replicated in our edition We do however repair the vast majority of imperfections successfully any imperfections that remain are intentionally left to preserve the state of such historical works

Ions, Electrons and Ionizing Radiations James Arnold Crowther, 2007-03 PREFACE THE Author of this very practical treatise on

Scotch Loch Fishing desires clearly that it may be of use to all who had it He does not pretend to have written anything new but to have attempted to put what he has to say in as readable a form as possible Everything in the way of the history and habits of fish has been studiously avoided and technicalities have been used as sparingly as possible The writing of this book has afforded him pleasure in his leisure moments and that pleasure would be much increased if he knew that the perusal of it would create any bond of sympathy between himself and the angling community in general This section is interleaved with blank sheets for the readers notes The Author need hardly say that any suggestions addressed to the case of the publishers will meet with consideration in a future edition We do not pretend to write or enlarge upon a new subject Much has been said and written and well said and written too on the art of fishing but loch fishing has been rather looked upon as a second rate performance and to dispel this idea is one of the objects for which this present treatise has been written Far be it from us to say anything against fishing lawfully practised in any form but many pent up in our large towns will bear us out when we say that on the whole a days loch fishing is the most convenient One great matter is that the loch fisher is dependent on nothing but enough wind to curl the water and on a large loch it is very seldom that a dead calm prevails all day and can make his arrangements for a day weeks beforehand whereas the stream fisher is dependent for a good take on the state of the water and however pleasant and easy it may be for one living near the banks of a good trout stream or river it is quite another matter to arrange for a days river fishing if one is looking forward to a holiday at a date some weeks ahead Providence may favour the expectant angler with a good day and the water in order but experience has taught most of us that the good days are in the minority and that as is the case with our rapid running streams such as many of our northern streams are the water is either too large or too small unless as previously remarked you live near at hand and can catch it at its best A common belief in regard to loch fishing is that the tyro and the experienced angler have nearly the same chance in fishing the one from the stern and the other from the bow of the same boat Of all the absurd beliefs as to loch fishing this is one of the most absurd Try it Give the tyro either end of the boat he likes give him a cast of ally flies he may fancy or even a cast similar to those which a crack may be using and if he catches one for every three the other has he may consider himself very lucky Of course there are lochs where the fish are not abundant and a beginner may come across as many as an older fisher but we speak of lochs where there are fish to be caught and where each has a fair chance Again it is said that the boatman has as much to do with catching trout in a loch as the angler Well we dont deny that In an untried loch it is necessary to have the guidance of a good boatman but the same argument holds good as to stream fishing

Negative Ions Harrie Massey,1976 *The Stopping and Ranges of Ions in Matter* J. F. Ziegler,J. P. Biersack,U. Littmark,Harold Henry Anderson,1977

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