

Chemical Periodicity

Name Mitchell Wade Section Number 015

OBJECTIVE: To demonstrate the periodic law.

CONCEPTS: Periodic law, Periodic trends

INTRODUCTION: In the 1860's about 60 elements were known. From their physical properties, the elements were classified as metals, nonmetals, or metalloids. Metals have low electrical resistance (high conductivity), have a metallic luster, and are malleable. Non-metals have high resistance, low luster, and are brittle. Metalloids have properties between those of non-metals and metals. Chemists of the time further classified the elements into groups. The elements in a particular group have similar chemical and/or physical properties. This classification led to the discovery of the periodic table and the periodic law. In the periodic table, elements are assigned to a period and a group—groups are the columns and the periods are the rows of the table. The periodic law states that the properties of the chemical elements vary with the atomic number in a systematic way. We now understand that the properties depend on the electronic structures of the atoms.

PROCEDURE:

1. Find the station labeled "Halogens: states of matter." Observe the states of matter of the three samples. How does the state of matter change as you go down the column of the periodic table?

Starts as gas and goes to solid

The melting points of the halogen elements that you observed are listed below. Based on the trend that you see, estimate the melting point of Fluorine.

Element	Melting Point ($^{\circ}\text{C}$)
F	-200
Cl	-101.5
Br	-7.35
I	113.75

2. Find the station labeled "Metallic Solutions." Fill out the chart below. For the unlabeled mystery elements, you will have to guess which type of metal they are (transition, alkali, or alkaline earth) based on the trends you see.

Solution Number	Element	Color of Water Solution	Type (transition metal, alkali metal, alkaline earth metal)
1	Co	Red	Transition metal
2	Ba	Clear	Alkaline earth metal
3	K	clear	Alkali metal
4	Ni	green	Transition metal
5	Na	clear	Alkali metal
6	Cu	blue	Transition metal
7	Mg	clear	Alkaline earth metal

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Good Laboratory Practice Regulations Sandy Weinberg, 2007-01-19 Recent changes in the interpretation and enforcement of 21 CFR Part 11 have shifted the focus of Good Laboratory Practice GLP regulations to concentrate on the acceptance of electronic signatures the archiving of data the security of electronic documents and the automation of laboratory procedures This all encompassing Fourth Edition addresses

Sustainable Green Chemistry Mark Anthony Benvenuto, 2017-04-10 Sustainable Green Chemistry the 1st volume of Green Chemical Processing covers several key aspects of modern green processing The scope of this volume goes beyond bio and organic chemistry highlighting the ecological and economic benefits of enhanced sustainability in such diverse fields as petrochemistry metal production and wastewater treatment The authors discuss recent progresses and challenges in the implementation of green chemical processes as well as their transfer from academia to industry and teaching at all levels Selected successes in the greening of established processes and reactions are presented including the use of switchable polarity solvents actinide recovery using ionic liquids and the removal of the ubiquitous bisphenol A molecule from effluent streams by phytodegradation

Scientific and Technical Aerospace Reports, 1994 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database

Energy Research Abstracts, 1987

U.S. Government Research Reports, 1964

Cloud Nucleation C. Guy Suits, 2013-10-22 The Collected Works of Irving Langmuir Volume 11 Cloud Nucleation presents the papers written by Dr Irving Langmuir on the study of artificial nucleation of clouds to produce precipitation The compilation provides the study of every possible aspect of cloud and weather modification This volume contains chapters that are devoted to the discussion of such subjects as the nucleation of clouds with dry ice the analysis of photographic data showing the effects produced by supercooled clouds with ice nuclei the production of rain by a chain reaction in cumulus clouds at temperatures above freezing nucleation of clouds with silver iodide and basic discoveries underlying weather modification Meteorologists will find the book interesting and invaluable

Annals of the Academy of Medicine, Singapore Academy of Medicine (Singapore), 1997

Fixed Point Theory And Applications - Proceedings Of The Second International Conference Kok Keong Tan, 1992-08-08 This volume contains current works of researchers from twelve different countries on fixed point theory and applications Topics include in part nonexpansive mappings multifunctions minimax inequalities applications to game theory and computation of fixed points It is valuable to pure and applied mathematicians as well as computing scientists and mathematical economists

Chaos in Real Data J.N. Perry, R.H. Smith, I.P. Woitwod, D.R. Morse, 2012-12-06 Chaos in Real Data studies the range of data analytic techniques available to study nonlinear population dynamics for ecological time series Several case studies are studied using typically short and noisy population data from field and laboratory A range of modern approaches such as response surface methodology and mechanistic mathematical modelling

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