

Lab POGIL: Metal Reactivity – Introduction & Pre-Lab

Discovery Question: *How can trends in metal reactivity be used to predict the products of chemical reactions?*

Objectives:

- Develop a procedure to test the reactivity of metals
- List metals in order of reactivity based on the results of your procedure
- Predict the products of chemical reactions by considering the relative reactivity of the reactants

You have been provided with vials containing 3 types of metals (A, B, C). You also have vials filled with solutions containing cations of each metal (A^{+} , B^{+} , C^{+}), and an additional vial containing a solution of cation D^{+} . You will also have (6-well x 4-well) plates available for small-scale reactions of metals and ionic solutions.

Elemental Metals	Solutions Containing Metal Cations
A	A (contains A^{+})
B	B (contains B^{+})
C	C (contains C^{+})
	D (contains D^{+})

Remember to wear goggles at all times. Avoid skin contact with all solutions. If contact occurs, rinse with water immediately. Solution D will stain skin and clothes.

Pre-lab Requirements:

- Describe a method for predicting charges of ions formed from single atoms of an element using the periodic table.
- Use a periodic table to predict charges for ions formed from each element listed below:

Element	Ion	Element	Ion	Element	Ion
Lithium (Li)	_____	Beryllium (Be)	_____	Copper (Cu)	____/____
Sodium (Na)	_____	Magnesium (Mg)	_____	Zinc (Zn)	_____
Potassium (K)	_____	Calcium (Ca)	_____	Silver (Ag)	_____
Nitrogen (N)	_____	Oxygen (O)	_____	Fluorine (F)	_____
Phosphorous (P)	_____	Sulfur (S)	_____	Chlorine (Cl)	_____
		Selenium (Se)	_____	Bromine (Br)	_____

Reactivity Of Metals Pogil Answers

Malcolm H. Chisholm



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Reactivity of Metals ,2006 **Reactivity of Metals with Liquid and Gaseous Oxygen** John David Jackson,Walter K. Boyd,Paul D. Miller,1963 *Reactivity of Metals with Hydrochloric Acid* James M. Postma,Julian Roberts,J. Leland Hollenberg,2000-01-15 *Reactivity Series* ,2006 **Reactivity of Metals Tethered to Metal-organic Frameworks** Rosemary Young,2021 *Metals and Chemical Change* D A Johnson,2007-10-31 This book looks at how molecules react and how the feasibility and outcome of chemical reactions can be predicted Beginning with an introduction to the concept of an activity series of metals *Metals and Chemical Change* then introduces chemical thermodynamics enthalpy entropy and free energy and applies the concept to both inorganic and organic elements A Case Study on batteries and fuel cells is also included The accompanying CD ROM includes video sequences of the reactions of metals with water acid and aqueous ions and gives the reader an opportunity to make experimental observations and predictions about chemical behaviour A comprehensive Data Book of chemical and physical constants is included along with a set of interactive self assessment questions The Molecular World series provides an integrated introduction to all branches of chemistry for both students wishing to specialise and those wishing to gain a broad understanding of chemistry and its relevance to the everyday world and to other areas of science The books with their Case Studies and accompanying multi media interactive CD ROMs will also provide valuable resource material for teachers and lecturers The CD ROMs are designed for use on a PC running Windows 95 98 ME or 2000 **Metals and Ligand Reactivity - An Introduction to the Organic Chemistry of Metal Complexes; New, Revised and Expanded Edition** Constable EC.,1996 **Reactivity of Metal Metal Bonds** ,1981 Metal Ion Controlled Reactivity Rudi van Eldik,Colin D. Hubbard,2009 *Reactivity of Solids: Proceedings of the Seventh International Symposium... Bristol, 17-21 July 1972, Sponsored by the Chemical Society in Association with the Institute of Metals and the British Ceramic Society* International symposium on the reactivity of solids, 7th (bristol, 1972), *The Control of the Reactivity of Solids* Vladimir Viacheslavovich Boldyrev,M. Bulens,Bernard Delmon,1979 *Reactivity of Solids* ,2000 **Chemistry and Chemical Reactivity** John C. Kotz,1991-06-01 *Study of the Reactivity and Spectroscopic Properties of Compounds with Metal-metal Bonds* G. Pimblett,1986 **The Reaction Path in Chemistry: Current Approaches and Perspectives** D. Heidrich,2013-01-07 The so called reaction path RP with respect to the potential energy or the Gibbs energy free enthalpy is one of the most fundamental concepts in chemistry It significantly helps to display and visualize the results of the complex microscopic processes forming a chemical reaction This concept is an implicit component of conventional transition state theory TST The model of the reaction path and the TST form a qualitative framework which provides chemists with a better understanding of chemical reactions and stirs their imagination However an exact calculation of the RP and its neighbourhood becomes important when the RP is used as a tool for a detailed exploring of reaction mechanisms and particularly when it is used as a basis for reaction rate theories above and

beyond TST The RP is a theoretical instrument that now forms the theoretical heart of direct dynamics It is particularly useful for the interpretation of reactions in common chemical systems A suitable definition of the RP of potential energy surfaces is necessary to ensure that the reaction theories based on it will possess sufficiently high quality Thus we have to consider three important fields of research Analysis of potential energy surfaces and the definition and best calculation of the RPs or at least of a number of selected and chemically interesting points on it The further development of concrete versions of reaction theory beyond TST which are applicable for common chemical systems using the RP concept

Chemical Reactivity and Reaction Paths Gilles Klopman,1974 *Determining the Comparative Reactivities of Several Metals* H. Anthony Neidig, Marcia L. Gillette,1992-01-01 **Reactivity of Metal-Metal Bonds** Malcolm H. Chisholm,1981-01-01 **Reactivity of Solids** Norman Bruce Hannay,1976 **Reactivity of Solids** ,1977

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