

## Chemistry Unit 8 Worksheet 4

### Samples of Every Kind of Problem

*On a separate sheet of paper, write a complete solution to each of the problems below. Follow the procedure outlined in class. Be sure to circle your final answer.*

1. Calculate the number of moles of potassium chlorate,  $\text{KClO}_3$  (s), that must decompose to produce potassium chloride,  $\text{KCl}$  (s), and 1.8 moles of oxygen gas.

Equation:	$2 \text{KClO}_3 \rightarrow 2 \text{KCl} + 3 \text{O}_2$			1.2 moles $\text{KClO}_3$ needed
Before:	1.2	0	0	
Change:	-1.2	+1.2	+1.8	
After:	0	1.2	1.8	

2. In a single displacement reaction, magnesium metal reacts with hydrochloric acid to produce magnesium chloride and hydrogen gas. How many moles of hydrochloric acid are needed to completely react with 2.43 g of magnesium?

Equation:	$\text{Mg} + 2 \text{HCl} \rightarrow \text{MgCl}_2 + \text{H}_2$				0.200 moles $\text{HCl}$ needed
Before:	0.100	?	0	0	
Change:	-0.100	-0.200 +	0.100 +	0.100	
After:	0	?	0.100	0.100	

3. Ethane,  $\text{C}_2\text{H}_6$  reacts with oxygen gas to produce carbon dioxide gas and water vapor. What mass of oxygen gas is required to react with 2.20 moles of ethane?

Equation:	$2 \text{C}_2\text{H}_6 + 7 \text{O}_2 \rightarrow 4 \text{CO}_2 + 6 \text{H}_2\text{O}$			
Before:	2.20	xs	0	0
Change:	-2.20	-7.70	+4.40	+6.60
After:	0	xs	4.40	6.60

$$\text{O}_2 \text{ needed: } 7.70 \text{ mole} \times \frac{32.0 \text{ g}}{1 \text{ mole}} = 246 \text{ g O}_2 \text{ required}$$

4. Determine the mass of sodium nitrate produced when 0.73 g of nickel (II) nitrate reacts with sodium hydroxide according to the following equation:



$$0.73 \text{ g} \times \frac{1 \text{ mole}}{183 \text{ g}} = .0040 \text{ mole}$$

Equation:	$\text{Ni}(\text{NO}_3)_2 + 2 \text{NaOH} \rightarrow \text{Ni}(\text{OH})_2 + 2 \text{NaNO}_3$			
Before:	0.0040	XS	0	0
Change:	-0.0040	-0.0080	+0.0040	+0.0080
After:	0	XS	0.0040	0.0080

$$\text{NaNO}_3 \text{ produced: } 0.0080 \text{ mole} \times \frac{85.0 \text{ g}}{1 \text{ mole}} = 0.68 \text{ g}$$

# Modeling Chemistry Unit 8 3

**Arturo Cuomo**



### **Modeling Chemistry Unit 8 3:**

Motor Vehicle-related Air Toxics Study ,1993      **Comprehensive Inorganic Chemistry II** ,2013-07-23 Comprehensive Inorganic Chemistry II Nine Volume Set reviews and examines topics of relevance to today s inorganic chemists Covering more interdisciplinary and high impact areas Comprehensive Inorganic Chemistry II includes biological inorganic chemistry solid state chemistry materials chemistry and nanoscience The work is designed to follow on with a different viewpoint and format from our 1973 work Comprehensive Inorganic Chemistry edited by Bailar Emel us Nyholm and Trotman Dickenson which has received over 2 000 citations The new work will also complement other recent Elsevier works in this area Comprehensive Coordination Chemistry and Comprehensive Organometallic Chemistry to form a trio of works covering the whole of modern inorganic chemistry Chapters are designed to provide a valuable long standing scientific resource for both advanced students new to an area and researchers who need further background or answers to a particular problem on the elements their compounds or applications Chapters are written by teams of leading experts under the guidance of the Volume Editors and the Editors in Chief The articles are written at a level that allows undergraduate students to understand the material while providing active researchers with a ready reference resource for information in the field The chapters will not provide basic data on the elements which is available from many sources and the original work but instead concentrate on applications of the elements and their compounds Provides a comprehensive review which serves to put many advances in perspective and allows the reader to make connections to related fields such as biological inorganic chemistry materials chemistry solid state chemistry and nanoscience Inorganic chemistry is rapidly developing which brings about the need for a reference resource such as this that summarise recent developments and simultaneously provide background information Forms the new definitive source for researchers interested in elements and their applications completely replacing the highly cited first edition which published in 1973      Wetlands in Tooele Valley, Utah Neil I. Burk, Charles Edwin Bishop, Mike Lowe, 2005 This study indicates that wetlands in Tooele Valley are endangered The threats posed are from drought and increased development due to population growth which could dramatically affect the amount of water the wetlands receive sticker on back of disc cover      **Growing Up with Science** Cavendish Square Publishing LLC, 2006 Volume fifteen of a seventeen volume alphabetically arranged encyclopedia contains approximately five hundred articles introducing key aspects of science and technology      Upgrading Oilsands Bitumen and Heavy Oil Murray R. Gray, 2015-04-17 The emphasis throughout is to link the fundamentals of the molecules through to the economic drivers for the industry because this combination determines the technology used for processing From the Introduction The high demand for quality petroleum products necessitates ongoing innovation in the science and engineering underlying oilsands extraction and upgrading Beginning with a thorough grounding in the composition fluid properties reaction behaviour and economics of bitumen and heavy oil Murray Gray then delves into current processing technologies particularly those used at full commercial scale The

tables of data on composition yield and behaviour of oilsands bitumen and heavy oil fractions are extensive Though the focus is on bitumen from Alberta s oilsands the largest resource in the world the science applies to upgrading of heavy oil and petroleum residue feeds worldwide Upgrading Oilsands Bitumen and Heavy Oil lays out the current best practice for engineers and scientists in the oilsands and refining industries government personnel academics and students **Inventory of Federal Energy-related Environment and Safety Research for FY 1979** ,1980 *Inventory of Federal Energy-related Environment and Safety Research for ...* ,1980 **College of Fine Arts Catalogue** Carnegie Institute of Technology. College of Fine Arts,1922 Timetable University of Illinois at Urbana-Champaign,1997 **The Summer Session ...** Washington University (Saint Louis, Mo.),1927 *General Catalogue* Carnegie Institute of Technology,1915 **Report on the Education of the Architect in the United States of America** Robert Atkinson,1922 Review of the Student Work Carnegie Institute of Technology. Department of Architecture,1923 **Cumulated Index Medicus** ,1991 **General Catalog** San Jose State University,1925 **Annual Report of the President of the University on Behalf of the Regents to His Excellency the Governor of the State of California** University of California, Berkeley,1902 Report of the President University of California, Berkeley,1904 **Biennial Report of the President of the University on Behalf of the Board of Regents** University of California (System),1904 Biennial Report of the President of the University on Behalf of the Regents .. University of California (System). Regents,1908 **Biennial Report of the President of the University on Behalf of the Board of Regents to His Excellency the Governor of the State** University of California (1868-1952). President,1908

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In a global defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their capability to kindle emotions, provoke contemplation, and ignite transformative change is truly awe-inspiring. Enter the realm of "**Modeling Chemistry Unit 8 3**," a mesmerizing literary masterpiece penned by way of a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve to the book is central themes, examine its distinctive writing style, and assess its profound affect the souls of its readers.

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