

Gas Stoichiometry problems

1. Calculate the mass of hydrogen peroxide needed to obtain 0.460 L of oxygen gas at STP.



$$0.460 \text{ L O}_2 \left| \frac{1 \text{ mole O}_2}{22.4 \text{ L O}_2} \right| \left| \frac{2 \text{ moles H}_2\text{O}_2}{1 \text{ mole O}_2} \right| \left| \frac{34.0 \text{ g H}_2\text{O}_2}{1 \text{ mole H}_2\text{O}_2} \right| = \boxed{1.40 \text{ g}}$$

Given:

$V = 0.460 \text{ L}$
 $T = 273 \text{ K}$
 $P = 1 \text{ atm}$
 $n = ?$

2. Sodium azide (NaN_3) is used in some air bags. The impact of a collision causes the sodium azide to decompose and form solid Sodium and nitrogen gas. Calculate the volume of nitrogen gas generated at 80.0°C and 823 mm Hg by the decomposition of 60.0 g of NaN_3 .

Balanced equation:



Given:

$T = 353 \text{ K}$
 $P = 823 \text{ mm Hg}$
 $V_{\text{N}_2} = ?$

$$60.0 \text{ g NaN}_3 \left| \frac{1 \text{ mole NaN}_3}{65.0 \text{ g NaN}_3} \right| \left| \frac{3 \text{ moles N}_2}{2 \text{ moles NaN}_3} \right| = 1.38 \text{ moles N}_2$$

$$V_{\text{N}_2} = \frac{nRT}{P} = \frac{(1.38 \text{ moles}) (0.0821 \frac{\text{L atm}}{\text{mol K}}) (353 \text{ K})}{1.08 \text{ atm}}$$

$$V = 37.0 \text{ L}$$

$$823 \text{ mm Hg} \left| \frac{1 \text{ atm}}{760 \text{ mm Hg}} \right| = 1.08 \text{ atm}$$

3. When heated, solid potassium chlorate (KClO_3) decomposes to form solid potassium chloride and oxygen gas. If 20.8 g of potassium chlorate decomposes, how many liters of oxygen gas will form at STP?

Balanced equation:



Given:

$m = 20.8 \text{ g}$
 $T = 273 \text{ K}$
 $P = 1 \text{ atm}$
 $V = ?$
 $\boxed{\text{STP}}$

$$20.8 \text{ g KClO}_3 \left| \frac{1 \text{ mole KClO}_3}{122.55 \text{ g KClO}_3} \right| \left| \frac{3 \text{ moles O}_2}{2 \text{ moles KClO}_3} \right| = 0.801 \text{ moles O}_2$$

$$V_{\text{O}_2} = \frac{nRT}{P} = \frac{(0.801 \text{ moles}) (0.0821 \frac{\text{L atm}}{\text{mol K}}) (273 \text{ K})}{1 \text{ atm}}$$

$$\boxed{V_{\text{O}_2} = 5.72 \text{ Liters}}$$

OR - Since at STP - do in one step.

$$20.8 \text{ g KClO}_3 \left| \frac{1 \text{ mole KClO}_3}{122.55 \text{ g KClO}_3} \right| \left| \frac{3 \text{ moles O}_2}{2 \text{ moles KClO}_3} \right| \left| \frac{22.4 \text{ L O}_2}{1 \text{ mole O}_2} \right| = \boxed{5.70 \text{ L}}$$

Gas Stoichiometry Worksheet Answers With Work

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Gas Stoichiometry Worksheet Answers With Work:

Introduction to Chemistry, Laboratory Manual T. R. Dickson, 1994-12-23 Teaches chemistry by offering a dynamic provocative and relevant view of the topic and its importance to society and our daily lives Three themes are stressed throughout the text developing chemical thinking and a chemical vision learning problem solving methods and utilizing group work and discussion activities These themes involve and engage the students in their own learning processes they are challenged to be active The presentation of topics has been altered to include a new chapter which introduces the students to scientific thinking and shows that chemistry involves interesting and relevant topics The reorganization presents many core concepts in the first five chapters preparing students for later chapters In addition the author has added vignettes throughout the chapters referring to health technology the environment and society as well as to specific tools of direct use to students

Improving Student Comprehension of Stoichiometric Concepts Connie Lynn Bannick Kemner, 2007
Merrill Chemistry Robert C. Smoot, Smoot, Richard G. Smith, Jack Price, 1998 [Oswaal NDA-NA Previous Years 12 Solved Question Papers Mathematics, English & GK \(Set of 3 Books\) \(2017-2023\) For 2024 Exam](#) Oswaal Editorial Board, 2023-10-28 Description of the Product 1 100% updated with Fully Solved Paper of April September 2023 2 Concept Clarity with detailed explanations of 2017 I to 2023 Papers 3 Extensive Practice with 600 Questions and Two Sample Question Papers 4 Crisp Revision with Mind Maps 5 Expert Tips helps you get expert knowledge master crack NDA NA in first attempt 6 Exam insights with 4 Year wise 2020 2023 Trend Analysis empowering students to be 100% exam ready

Chemical Engineering Design Gavin Towler, Ray Sinnott, 2012-01-25 Chemical Engineering Design Second Edition deals with the application of chemical engineering principles to the design of chemical processes and equipment Revised throughout this edition has been specifically developed for the U S market It provides the latest US codes and standards including API ASME and ISA design codes and ANSI standards It contains new discussions of conceptual plant design flowsheet development and revamp design extended coverage of capital cost estimation process costing and economics and new chapters on equipment selection reactor design and solids handling processes A rigorous pedagogy assists learning with detailed worked examples end of chapter exercises plus supporting data and Excel spreadsheet calculations plus over 150 Patent References for downloading from the companion website Extensive instructor resources including 1170 lecture slides and a fully worked solutions manual are available to adopting instructors This text is designed for chemical and biochemical engineering students senior undergraduate year plus appropriate for capstone design courses where taken plus graduates and lecturers tutors and professionals in industry chemical process biochemical pharmaceutical petrochemical sectors New to this edition Revised organization into Part I Process Design and Part II Plant Design The broad themes of Part I are flowsheet development economic analysis safety and environmental impact and optimization Part II contains chapters on equipment design and selection that can be used as supplements to a lecture course or as essential references for students or

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consult the publication Taking the SAT II Subject Tests which may be obtained from your guidance counselor or by contacting College Board SAT Program P O Box 6200 Princeton NJ 08541 6200 Phone 609 771 7600 Website <http://www.collegeboard.com> Is There a Registration Fee Yes There is a registration fee to take the SAT II Chemistry Consult the publication Taking the SAT II Subject Tests for information on the fee structure Financial assistance may be granted in certain situations To find out if you qualify and to register for assistance contact your academic advisor

HOW TO USE THIS BOOK

What Do I Study First Remember that the SAT II Chemistry Subject Test is designed to test knowledge that has been acquired throughout your education Therefore the best way to prepare for the exam is to refresh yourself by thoroughly studying our review material and taking the sample tests provided in this book They will familiarize you with the types of questions directions and format of the SAT II Chemistry Subject Test To begin your studies read over the review and the suggestions for test taking take one of the practice tests to determine your areas of weakness and then restudy the review material focusing on your specific problem areas The course review includes the information you need to know when taking the exam Be sure to take the remaining practice tests to further test yourself and become familiar with the format of the SAT II Chemistry Subject Test

When Should I Start Studying It is never too early to start studying for the SAT II Chemistry test The earlier you begin the more time you will have to sharpen your skills Do not procrastinate Cramming is not an effective way to study since it does not allow you the time needed to learn the test material The sooner you learn the format of the exam the more comfortable you will be when you take the exam

FORMAT OF THE SAT II CHEMISTRY

The SAT II Chemistry is a one hour exam consisting of 85 multiple choice questions The first part of the exam consists of classification questions This question type presents a list of statements or questions that you must match up with a group of choices lettered A through E Each choice may be used once more than once or not at all The exam then shifts to relationship analysis questions which you will answer in a specially numbered section of your answer sheet You will have to determine if each of two statements is true or false and if the second statement is a correct explanation of the first The last section is composed strictly of multiple choice questions with choices lettered A through E

Material Tested

The following chart summarizes the distribution of topics covered on the SAT II Chemistry Subject Test

Topic	Percentage	Number of Questions
Atomic	however	do not review too much at any one time Concentrate on one problem area at a time by reviewing the questions and explanations and by studying our review until you are confident you completely understand the material
Keep track of your scores		By doing so you will be able to gauge your progress and discover general weaknesses in particular sections You should carefully study the reviews that cover your areas of difficulty as this will build your skills in those areas

TEST TAKING TIPS

Although you may be unfamiliar with standardized tests such as the SAT II Chemistry Subject Test there are many ways to acquaint yourself with this type of examination and help alleviate your test taking anxieties Become comfortable with the format of the exam When you are practicing to take the SAT II Chemistry Subject Test simulate the conditions under which

you will be taking the actual test Stay calm and pace yourself After simulating the test only a couple of times you will boost your chances of doing well and you will be able to sit down for the actual exam with much more confidence Know the directions and format for each section of the test Familiarizing yourself with the directions and format of the exam will not only save you time but will also ensure that you are familiar enough with the SAT II Chemistry Subject Test to avoid nervousness and the mistakes caused by being nervous Do your scratchwork in the margins of the test booklet You will not be given scrap paper during the exam and you may not perform scratchwork on your answer sheet Space is provided in your test booklet to do any necessary work or draw diagrams If you are unsure of an answer guess However if you do guess guess wisely Use the process of elimination by going through each answer to a question and ruling out as many of the answer choices as possible By eliminating three answer choices you give yourself a fifty fifty chance of answering correctly since there will only be two choices left from which to make your guess Mark your answers in the appropriate spaces on the answer sheet Fill in the oval that corresponds to your answer darkly completely and neatly You can change your answer but remember to completely erase your old answer Any stray lines or unnecessary marks may cause the machine to score your answer incorrectly When you have finished working on a section you may want to go back and check to make sure your answers correspond to the correct questions Marking one answer in the wrong space will throw off the rest of your test whether it is graded by machine or by hand You don't have to answer every question You are not penalized if you do not answer every question The only penalty results from answering a question incorrectly Try to use the guessing strategy but if you are truly stumped by a question remember that you do not have to answer it Work quickly and steadily You have a limited amount of time to work on each section so you need to work quickly and steadily Avoid focusing on one problem for too long Before the Test Make sure you know where your test center is well in advance of your test day so you do not get lost on the day of the test On the night before the test gather together the materials you will need the next day Your admission ticket Two forms of identification e.g. driver's license student identification card or current alien registration card Two No. 2 pencils with erasers Directions to the test center A watch if you wish but not one that makes noise as it may disturb other test takers On the day of the test you should wake up early after a good night's rest and have breakfast Dress comfortably so that you are not distracted by being too hot or too cold while taking the test Also plan to arrive at the test center early This will allow you to collect your thoughts and relax before the test and will also spare you the stress of being late If you arrive after the test begins you will not be admitted to the test center and you will not receive a refund During the Test When you arrive at the test center try to find a seat where you feel most comfortable Follow all the rules and instructions given by the test supervisor If you do not you risk being dismissed from the test and having your scores canceled Once all the test materials are passed out the test instructor will give you directions for filling out your answer sheet Fill this sheet out carefully since this information will appear on your score report After the Test When you have completed the SAT II

Chemistry Subject Test you may hand in your test materials and leave Then go home and relax When Will I Receive My Score Report and What Will It Look Like You should receive your score report about five weeks after you take the test This report will include your scores percentile ranks and interpretive information You Can Do Chemistry Sunil Tanna,2018-11-19 A comprehensive guide to performing mole and stoichiometric calculations with numerous examples as well as questions and answers Covers calculations relating to solids solutions gases and electrolysis plus as limiting and excess reactants chemical yields atom economy and much more Fully up to date with the last international standards including the revised definition of mole which was agreed on November 16th 2018

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In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing short of extraordinary. Within the captivating pages of **Gas Stoichiometry Worksheet Answers With Work** a literary masterpiece penned by way of a renowned author, readers attempt a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting affect the hearts and minds of those who partake in its reading experience.

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