

Alka Seltzer Strength

Lab Report

This experiment explores the chemistry behind common antacids and treatment for heartburn. This lab continues to build on the concept of stoichiometry and limiting reactant explored in previous labs. It also uses the Law of Conservation of Mass to quantitatively (with numbers and measurements) study the amount of substance used and produced in a chemical reaction.

After performing the lab, finding the limiting reactant, and determining the maximum amount of carbon dioxide produced, you will be able to calculate the mass percent of the active ingredient in a tablet of Alka Seltzer.

Data and Calculations

Data 6 points

Beaker	Mass Empty Beaker (g)	Mass of Beaker w/water and vinegar (g)	Mass before reaction; Beaker, water, vinegar and 3.000 g Alka Seltzer (g)	Mass after reaction; beaker and contents after reaction is complete(g)
1	32.000 g	62.000 g	65.000 g	64.239 g
2	32.000 g	62.005 g	65.005 g	64.171 g
3	32.000 g	62.010 g	65.010 g	64.127 g
4	32.000 g	62.015 g	65.015 g	64.132 g
5	32.000 g	62.020 g	65.020 g	64.137 g
6	32.000 g	62.026 g	65.026 g	64.142 g

Calculations

12 points

Beaker	Change in Mass (grams of CO ₂ made)	Moles of CO ₂ made (Molar mass of CO ₂ is 44.01 g/mol)	Moles of NaHCO ₃ reacted	Grams of NaHCO ₃ reacted (molar mass of NaHCO ₃ is 84.007g/mol)
1				
2				
3				
4				
5				
6				

Alka Seltzer Lab Answers

Joacim Rocklöv



Alka Seltzer Lab Answers:

Inquiry-based Experiments in Chemistry Valerie Ludwig Lechtanski, 2000 Inquiry Based Experiments in Chemistry is an alternative to those cookbook style lab manuals providing a more accurate and realistic experience of scientific investigation and thought for the high school chemistry or physical science student Laboratory Exercises for Freshwater Ecology John E. Havel, 2016-03-17 Limnology stream ecology and wetland ecology all share an interdisciplinary perspective of inland aquatic habitats Scientists working in these fields explore the roles of geographic position physical and chemical properties and the other biota on the different kinds of plants and animals living in freshwaters How do these creatures interact with each other and with their physical environment In what ways have humans impacted aquatic habitats By what methods do freshwater ecologists study these environments With this new laboratory manual Havel provides a variety of accessible hands on exercises to illuminate key concepts in freshwater ecology These exercises include a mixture of field trips indoor laboratory exercises and experiments with some portions involving qualitative observations and others more quantitative With the help of this manual students will develop an appreciation for careful techniques used in the laboratory and in the field as well as an understanding of how to collect accurate field notes keep a well organized lab notebook and write clear scientific reports *Letters to a Young Doctor* Sanjiv Chopra, Pankaj K. Vij, 2024-12-03 Doctors Sanjiv Chopra and Pankaj Vij two world renowned physicians and educators present Letters to a Young Doctor a book that offers all the lessons that they don't teach in medical school how to find joy meaning and happiness in the healthcare professions It is an essential gift for anyone graduating medical school starting their residency or becoming a nurse physician's assistant or EMT During the COVID 19 pandemic people all over the world flung open their windows and yelled their heartfelt gratitude for the doctors nurses ambulance drivers and myriad others working tirelessly on the front lines putting their own lives at risk to care for those affected Yet despite such support millions of medical workers experienced unprecedented levels of fatigue burnout and trauma In this elegant and small volume Drs Chopra and Vij have written a heartfelt ode to those starting out in the healthcare professions offering them the much needed wisdom and inspiration to help them on their journey Here they discuss the importance of becoming a lifelong learner and innovator the importance of mentorship and the power of listening to patients with a beginner's mind Letters to a Young Doctor illustrates through numerous examples and inspiring stories that there are literally hundreds of paths to success Spotlight Science Teacher Support Pack 7: Framework Edition Keith Johnson, 2003 This Framework Edition Teacher Support Pack offers comprehensive support and guidance providing the best possible learning experience for your students and saving time for everyone in the department *Distinctive Distance Education Design: Models for Differentiated Instruction* Fuller, Richard G., Kuhne, Gary William, Frey, Barbara A., 2010-07-31 This book presents a tool to assist in the planning conducting and evaluation of online learning providing a way of understanding the course development and design process drawing upon the research and theory foundations of distance

education Provided by publisher Reflexive and Extensive Text Style in Instructional Materials Used in a Distance Learning Program Cynthia Lucille Krey,1995 **Spotlight Science** Keith Johnson,Sue Adamson,Gareth Williams,2000 Topic Outlines show parts of the PoS to be covered the relationship of the topic to aspects of KS2 and KS4 and warn of equipment that may need special preparation time in advance Topic Maps are provided for students Lesson Notes relating to each double page spread in the students book offer objectives ideas for each lesson detailed references to the PoS level descriptions safety points with references to CLEAPPS HAZCARDS ICT support cross curricular links and equipment lists Answers to all questions in the students book are also provided Additional support material provide Homework Sheets Help and Extension Sheets to optimise differentiation Sc1 Sc1 Skill Sheets Thinking about activities to improve integration of CASE activities with Spotlight Science Revision Quizzes and Checklists etc Extra Help Sheets for each topic extend the range of support for Sc1 and Sc2 4 Challenge Sheets for each topic provide a variety of enrichment activities for more able students They consist of a variety of challenging activities which will present students with opportunities to develop problem solving thinking presentational and interpersonal skills Technician s Cards include help to prepare lessons equipment requirements and CLEAPPS HAZCARD references For more information visit the website at www.spotlightscience.co.uk **The Impact of the Laboratory and Technology on Learning and Teaching Science K-16** Dennis W. Sunal,Emmett L. Wright,Cheryl Sundberg,2008 This book examines the role of laboratory work and technology in K 12 science education involving perspectives from policymakers researchers and teachers It explores design research professional practice and evaluation highlighting the benefits of inquiry based experiences integrated with classroom curricula *Almost Perfect* Brian Katcher,2009-10-13 This winner of the first Stonewall Award for Children s Young Adult Literature will make you marvel at the beauty of human connection and the irrepressible nature of love Everyone has that one line they swear they ll never cross the one thing they say they ll never do We draw the line Maybe we even believe it Sage Hendricks was my line Logan Witherspoon befriends Sage Hendricks at a time when he no longer trusts or believes in people He s drawn to Sage with her constant smile and sexy voice and his feelings for her grow so strong that he can t resist kissing her Sage finally discloses a big secret she was born a boy Enraged frightened and feeling betrayed Logan lashes out at her a reaction he soon desperately wishes he could take back Once his anger cools Logan is filled with incredible regret and all he wants is to repair his friendship with Sage But it s hard to replace something that s been broken and it s even harder to find your way back to friendship when you began with love Tackles issues of homophobia hate crimes and stereotyping with humor and grace in an accessible tone that will resonate with teens Kirkus Reviews It is Sage s story that is truly important SLJ Teens both those familiar with transgender issues and those who are not will welcome the honest take on a rarely explored subject Booklist A sensitive examination of the seldom treated subject of transgender teens VOYA **Lab Manual T/a Human Physiology** Bill W. Tillery,2001-03 *The Use of Various Techniques to Teach Weathering and Erosion* Julie S. Crossman,2004

Laboratory Manual for Principles of General Chemistry Jo Allan Beran, 2010-11-01 This new edition of the Beran lab manual emphasizes chemical principles as well as techniques The manual helps students understand the timing and situations for the various techniques The Beran lab manual has long been a market leading lab manual for general chemistry Each experiment is presented with concise objectives a comprehensive list of techniques and detailed lab intros and step by step procedures

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