



ANALYZING THE “POP” IN POPCORN

LABORATORY EXPERIMENT

ADAPTED FROM THE ACS CHEMSOURCE GAS MODULE

INTRODUCTION

Corn is a common foodstuff, native to the Americas, which appears in many forms: corn on the cob, corn off the cob, creamed corn, and popcorn. Field corn, which is also fed to livestock, is used by some people as decorations during Halloween and Thanksgiving. Popcorn is a favorite snack, especially when watching movies. Each variety of corn contains different amounts of water, sugars, and starches. Popping popcorn involves heating the corn until the pressure inside the kernel is great enough to cause it to burst, turning the kernel inside out and releasing trapped moisture.

PURPOSE

To determine the percent of water in popcorn and use the ideal gas law to determine the pressure inside the kernel when it pops.

SAFETY INFORMATION

In this lab, observe all standard safety precautions, especially the ones listed below.

- Safety goggles and lab aprons must be worn at all times.
- Heat the flask evenly to prevent spattering the oil.
- Heat with care. Oil is flammable.
- Do not eat the popcorn.

PROCEDURES

1. Record the mass of a plastic weighboat.
2. Select and weigh 20 kernels of one type of popcorn.
3. Calculate the mass of the popcorn kernels.
4. Using the water displacement method, find the volume of the 20 kernels using a 10-mL graduated cylinder filled with 5-mL of water. Dry the kernels thoroughly.
5. Add 2 mL of cooking oil and the 20 kernels to an empty, dry 250-mL Erlenmeyer flask.
6. Determine the mass of the flask, oil, and popcorn.
7. Assemble a ringstand with ring, placing wire gauze on top of the ring.
8. Using a utility clamp, fasten the flask to the stand so it sits on the wire gauze. Cover the flask with a piece of aluminum foil. Puncture a small hole in the aluminum foil.
9. Light the burner.
10. Use the burner to **slowly** heat the flask until the popcorn begins to pop. Remove the heat when most of the kernels have popped. Do not burn the popcorn.
11. Remove the aluminum foil from the top of the flask so all the steam vents out.
12. Allow the flask to cool for 10 minutes, and then weigh the flask and contents.
13. Clean up the lab as follows:
 - a. Place the aluminum foil and popcorn in the garbage.
 - b. Wash the flask and graduated cylinder thoroughly with soap and water.
 - c. Do not leave your lab bench or remove your safety clothing until excused by the instructor.

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Table of Contents Analyzing The Pop In Popcorn Lab Answers

1. Understanding the eBook Analyzing The Pop In Popcorn Lab Answers
 - The Rise of Digital Reading Analyzing The Pop In Popcorn Lab Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Analyzing The Pop In Popcorn Lab Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Analyzing The Pop In Popcorn Lab Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Analyzing The Pop In Popcorn Lab Answers
 - Personalized Recommendations
 - Analyzing The Pop In Popcorn Lab Answers User Reviews and Ratings

- Analyzing The Pop In Popcorn Lab Answers and Bestseller Lists
- 5. Accessing Analyzing The Pop In Popcorn Lab Answers Free and Paid eBooks
 - Analyzing The Pop In Popcorn Lab Answers Public Domain eBooks
 - Analyzing The Pop In Popcorn Lab Answers eBook Subscription Services
 - Analyzing The Pop In Popcorn Lab Answers Budget-Friendly Options
- 6. Navigating Analyzing The Pop In Popcorn Lab Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Analyzing The Pop In Popcorn Lab Answers Compatibility with Devices
 - Analyzing The Pop In Popcorn Lab Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Analyzing The Pop In Popcorn Lab Answers
 - Highlighting and Note-Taking Analyzing The Pop In Popcorn Lab Answers
 - Interactive Elements Analyzing The Pop In Popcorn Lab Answers
- 8. Staying Engaged with Analyzing The Pop In Popcorn Lab Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Analyzing The Pop In Popcorn Lab Answers
- 9. Balancing eBooks and Physical Books Analyzing The Pop In Popcorn Lab Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Analyzing The Pop In Popcorn Lab Answers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Analyzing The Pop In Popcorn Lab Answers
 - Setting Reading Goals Analyzing The Pop In Popcorn Lab Answers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Analyzing The Pop In Popcorn Lab Answers
 - Fact-Checking eBook Content of Analyzing The Pop In Popcorn Lab Answers
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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