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PHYSICAL SCIENCES PAPER 2 (CHEMISTRY)

GRADE 12

TERMS & DEFINITIONS, QUESTIONS & ANSWERS PER TOPIC

2021



TABLE OF CONTENTS



HOW TO USE THIS DOCUMENT	2
TERMS AND DEFINITIONS	3
QUESTIONS	9
ORGANIC MOLECULES: NOMENCLATURE	9
ORGANIC MOLECULES: PHYSICAL PROPERTIES	17
ORGANIC MOLECULES: ORGANIC REACTIONS	24
REACTION RATE AND ENERGY IN CHEMICAL REACTIONS	31
CHEMICAL EQUILIBRIUM	42
ACIDS AND BASES	49
GALVANIC CELLS	56
ELECTROLYTIC CELLS	63
ANSWERS TO QUESTIONS	68
ORGANIC MOLECULES: NOMENCLATURE	68
ORGANIC MOLECULES: PHYSICAL PROPERTIES	74
ORGANIC MOLECULES: ORGANIC REACTIONS	80
REACTION RATE AND ENERGY IN CHEMICAL REACTIONS	86
CHEMICAL EQUILIBRIUM	96
ACIDS AND BASES	107
GALVANIC CELLS	114
ELECTROLYTIC CELLS	117
BIBLIOGRAPHY	119



Physical Science Grade 12 Term 1 Test

Annelies Wilder-Smith



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Resources in Education , 2000-04 *Western Spectrum* , 2000

Undergraduate Announcement University of Michigan--Dearborn, 1993

The Chemical News and Journal of Physical Science , 1884

Private Secondary Schools Peterson's, 2011-05-01 Peterson's Private Secondary Schools is everything parents need to find the right private secondary school for their child This valuable resource allows students and parents to compare and select from more than 1 500 schools in the U S and Canada and around the world Schools featured include independent day schools special needs schools and boarding schools including junior boarding schools for middle school students Helpful information listed for each of these schools include school's area of specialization setting affiliation accreditation tuition financial aid student body faculty academic programs social life admission information contacts and more Also includes helpful articles on the merits of private education planning a successful school search

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Table of Contents Physical Science Grade 12 Term 1 Test

1. Understanding the eBook Physical Science Grade 12 Term 1 Test
 - The Rise of Digital Reading Physical Science Grade 12 Term 1 Test
 - Advantages of eBooks Over Traditional Books
2. Identifying Physical Science Grade 12 Term 1 Test
 - 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 Physical Science Grade 12 Term 1 Test
 - User-Friendly Interface
4. Exploring eBook Recommendations from Physical Science Grade 12 Term 1 Test
 - Personalized Recommendations
 - Physical Science Grade 12 Term 1 Test User Reviews and Ratings
 - Physical Science Grade 12 Term 1 Test and Bestseller Lists
5. Accessing Physical Science Grade 12 Term 1 Test Free and Paid eBooks
 - Physical Science Grade 12 Term 1 Test Public Domain eBooks
 - Physical Science Grade 12 Term 1 Test eBook Subscription Services
 - Physical Science Grade 12 Term 1 Test Budget-Friendly Options

6. Navigating Physical Science Grade 12 Term 1 Test eBook Formats
 - ePub, PDF, MOBI, and More
 - Physical Science Grade 12 Term 1 Test Compatibility with Devices
 - Physical Science Grade 12 Term 1 Test Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Physical Science Grade 12 Term 1 Test
 - Highlighting and Note-Taking Physical Science Grade 12 Term 1 Test
 - Interactive Elements Physical Science Grade 12 Term 1 Test
8. Staying Engaged with Physical Science Grade 12 Term 1 Test
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Physical Science Grade 12 Term 1 Test
9. Balancing eBooks and Physical Books Physical Science Grade 12 Term 1 Test
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Physical Science Grade 12 Term 1 Test
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Physical Science Grade 12 Term 1 Test
 - Setting Reading Goals Physical Science Grade 12 Term 1 Test
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Physical Science Grade 12 Term 1 Test
 - Fact-Checking eBook Content of Physical Science Grade 12 Term 1 Test
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

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the objectives of the boiling point determination lab were to determine the boiling point of a mystery substance provided to each student boiling point is the point at which a liquid changes physical states and becomes a vapor or gas boiling point is important to understand because it can be used to help distinguish between different substances

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the boiling point of an organic liquid is the temperature at which its vapour pressure equals the atmospheric pressure over the liquid or it is the temperature at which the vapour and liquid phases are in equilibrium at a given pressure the boiling point is considered as a criterion of purity of a compound and is useful for identification of

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given that the boiling points of ethanol and methanol 78 °C and 64 °C respectively are far off in a significant way this seems like a valid conclusion conclusion thermometer calibrations are necessary in order to collect reliable information as precise calculations are imperative to gathering correct results

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melting point 1 a push the open end of a capillary tube into the powdered acetamide b move the powder to the closed end of the capillary tube by tapping it on the table repeat until the powdered acetamide occupies 1-2 mm of the capillary tube end c

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boiling point determination lab report conclusion objectives to correctly measure boiling issues of various liquids and identify an unknown liquid based on its boiling point background information objects can be distinguished into acid properties and physical properties

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discussion and conclusion the technique recrystallization was used because it is a simple method to purify a solid compound the percentage yield for benzoic acid and acetanilide acid being high indicated the initial sample had a low concentration of impurities with the melting point being in a specific

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introduction in this lab we will be using boiling points melting points and infrared spectrometry to identify unknown compounds boiling points are affected by three key factors the first being intermolecular forces intermolecular forces affect boiling point based on bond strength

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determination of boiling points introduction the boiling point of a compound is the temperature at which it changes from a liquid to a gas this is a physical property often used to identify substances or to check the purity of the compound it

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clean up solid and liquid spills immediately true g conclusions after conducting the boiling point determination lab it can be concluded that the unknown substance 193 is isopropyl alcohol on account of its observed boiling point of 88 c

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conclusion after completing this experiment the melting point of three different unknown compounds was obtained using the mel temp apparatus compound a had a melting point range of 114 6 115 5 c thus revealing it to be acetanilide compound b had a melting point range of 122 6 124 5 c thus

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nov 27 2019 essay sample the purpose of this experiment is to determine the boiling points of various organic compounds and to use these to identify unknowns equipment free essays

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melting point can be used as the identity and purity of an organic solid however it is not the same as the boiling point the boiling point is a characteristic unique of pure liquids the boiling point is the temperature at which the vapor pressure of a liquid is equal to the atmospheric pressure

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the purpose of the experiment is to understand what vapour pressure is and how it changes with temperature to understand the relationship between vapour pressure at a given temperature and boiling temperature at a given pressure to determine the vapour pressure of a pure liquid at various temperatures

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exploring boiling points abstract in this experiment we are given a set of straight chain alkanes and a set of compounds to compare by following the trendline of the straight chain alkanes it could be concluded that as the molar mass of the straight chain alkanes increases their boiling points increase as well

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laboratory partners samantha and mackenzie goals □ correctly determine the boiling point of an unknown liquid □ measure the refractive index of an unknown □ use the gas chromatogram to determine the mass percentage of a mixture and

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50 c so in order to convert an experimental measurement taken in calgary which is at higher altitude than sea level and so is at a lower pressure to that reported for sea level higher pressure one needs to add a correction factor since the boiling point at sea level is higher than that at higher altitudes

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introduction in chemistry one may encounter an unknown substance that need to be determined by physical properties such as boiling point melting point density solubility etc in this experiment i am to figure out the boiling point of a mystery substance in order to identify it chemical responsibility this experiment requires the handling of a bunsen burner boiling

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there are a variety of methods by which a sample s boiling point can be determined including distillation reflux and by using a thiele tube the most straightforward method uses a thiele tube and has the advantage of using less than 0 5ml 0 5 ml of material

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