



NATIONAL
SENIOR CERTIFICATE

GRADE 11

NOVEMBER 2020

PHYSICAL SCIENCES P2
(CHEMISTRY)
EXEMPLAR

DATE: / /
TIME: hours



The question paper consists of 10 pages, including 4 extra sheets.
Use blue or black ink for writing. Do not use correction fluid.

QUESTION 3

PHYSICAL SCIENCES PAPER 2

INTERMOLECULAR FORCES

GRADE 11

NOVEMBER 2020

Examiner's use: _____ Physical Sciences P2

QUESTION 3 starts on a NEW page.

3.1 The boiling points in the table below were obtained during an investigation carried out to measure the boiling points of pure 1-hexanol. The table also lists the ΔH_{vap} and ΔH_{fusion} for 1-hexanol in kJ mol⁻¹ and 1 mol of 1-hexanol.

Compound	Molecular mass (M _r)	Boiling point (°C)
A	102	16,2
B	102	21

- 3.1.1 Define the term boiling point. (2)
- 3.1.2 Is pure 1-hexanol only composed of A and B? or C? and list one of the reasons. (2)
- 3.1.3 Name the type of intermolecular force that exists between molecules of both compounds A and B and is the prime reason of their volatility. (2)
- 3.1.4 What (kind of the compound A or B) has a (strongest) London force dispersion forces? (2)
- 3.1.5 Which compound (A or B) will have the higher vapour pressure? (2)
- 3.1.6 Give a reason for your answer. (2)
- 3.1.7 Which compound (A or B) will have the higher surface tension? (2)
- 3.1.8 Give a reason for the answer to 3.1.7 when it is about the table. (2)

Compound C (M_r 102) will show in the table, has a smaller molecular mass than both compounds A and B but has a relatively higher boiling point of 16,2 °C.

- 3.1.8 Explain why the boiling point of compound C is (stronger) than that of compound A and B by referring to the ΔH_{vap} and intermolecular or intramolecular forces. (2)

3.2 Add table C to be added to each column of pure 1-hexanol (C₆H₁₄) and water. It is added to each column as shown in the diagram below.



- 3.2.1 Is there any C₆H₁₄ in H₂O, and the water droplet? (2)
- 3.2.2 Explain the answer to QUESTION 3.2.1 about the solubility in the intermolecular forces. (2)

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Page 10 of 10

Physical Science Paper 2 Intermolecular Forces Investigation

**Mihnea Dulea, Aneta
Karaivanova, Anastasis Oulas, Ioannis
Liabotis, Danica Stojiljkovic, Ognjen
Prnjat**

Physical Science Paper 2 Intermolecular Forces Investigation:

Unveiling the Magic of Words: A Overview of "**Physical Science Paper 2 Intermolecular Forces Investigation**"

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Table of Contents Physical Science Paper 2 Intermolecular Forces Investigation

1. Understanding the eBook Physical Science Paper 2 Intermolecular Forces Investigation
 - The Rise of Digital Reading Physical Science Paper 2 Intermolecular Forces Investigation
 - Advantages of eBooks Over Traditional Books
2. Identifying Physical Science Paper 2 Intermolecular Forces Investigation
 - 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 Paper 2 Intermolecular Forces Investigation
 - User-Friendly Interface
4. Exploring eBook Recommendations from Physical Science Paper 2 Intermolecular Forces Investigation
 - Personalized Recommendations
 - Physical Science Paper 2 Intermolecular Forces Investigation User Reviews and Ratings
 - Physical Science Paper 2 Intermolecular Forces Investigation and Bestseller Lists

5. Accessing Physical Science Paper 2 Intermolecular Forces Investigation Free and Paid eBooks
 - Physical Science Paper 2 Intermolecular Forces Investigation Public Domain eBooks
 - Physical Science Paper 2 Intermolecular Forces Investigation eBook Subscription Services
 - Physical Science Paper 2 Intermolecular Forces Investigation Budget-Friendly Options
6. Navigating Physical Science Paper 2 Intermolecular Forces Investigation eBook Formats
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7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Physical Science Paper 2 Intermolecular Forces Investigation
 - Highlighting and Note-Taking Physical Science Paper 2 Intermolecular Forces Investigation
 - Interactive Elements Physical Science Paper 2 Intermolecular Forces Investigation
8. Staying Engaged with Physical Science Paper 2 Intermolecular Forces Investigation
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Physical Science Paper 2 Intermolecular Forces Investigation
9. Balancing eBooks and Physical Books Physical Science Paper 2 Intermolecular Forces Investigation
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Physical Science Paper 2 Intermolecular Forces Investigation
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Physical Science Paper 2 Intermolecular Forces Investigation
 - Setting Reading Goals Physical Science Paper 2 Intermolecular Forces Investigation
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Physical Science Paper 2 Intermolecular Forces Investigation
 - Fact-Checking eBook Content of Physical Science Paper 2 Intermolecular Forces Investigation
 - 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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