



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  $\Delta H_{\text{vap}}$  and  $\Delta H_{\text{fus}}$  for 1-hexanol in kJ mol<sup>-1</sup> and in °C respectively.

Compound	Molecular mass (M <sub>r</sub> )	Boiling point (°C)
A	102	162
B	102	17

- 3.1.1 Define the term boiling point. (2)
- 3.1.2 Is pure 1-hexanol only composed of A and B or of A, B and C or of others as well? (2)
- 3.1.3 Name the type of intermolecular force that exists between molecules of both compounds A and B and its boiling point of these molecules. (2)
- 3.1.4 What kind of the compound A or B is 1-hexanol? Explain how you arrived at your answer. (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 by referring to the space for table. (2)

Compound C (M<sub>r</sub> 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 162 °C.

- 3.1.8 Explain why the boiling point of compound C is 162 °C by referring to compound A and B by referring to the  $\Delta H_{\text{vap}}$  and intermolecular or molecular forces involved. (2)

3.2 Add table 3.2 to table 3.1 and include all correct intermolecular forces and name of molecular forces that are shown in the diagram below.



- 3.2.1 Is there any other (H-bond or H-bond, all the other forces)? (2)
- 3.2.2 Explain the answer to QUESTION 3.2.1 about the referring to the intermolecular forces involved. (2)

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# Physical Science Paper 2 Intermolecular Forces Investigation

**G Thomas**



## **Physical Science Paper 2 Intermolecular Forces Investigation:**

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giant of his time but is now sadly overlooked In so doing the book will shed much new light on the scientific culture of the late nineteenth and early twentieth centuries and the development of the field of chemistry in Britain *U.S. Government Research & Development Reports* ,1970-04 *Resources in Education* ,1972-10 **Journal of Research of the National Bureau of Standards** ,1963 *High-Performance Computing Infrastructure for South East Europe's Research Communities* Mihnea Dulea, Aneta Karaivanova, Anastasis Oulas, Ioannis Liabotis, Danica Stojiljkovic, Ognjen Prnjat, 2013-08-13 This book is a collection of carefully reviewed papers presented during the HP SEE User Forum the meeting of the High Performance Computing Infrastructure for South East Europe s HP SEE Research Communities held in October 17 19 2012 in Belgrade Serbia HP SEE aims at supporting and integrating regional HPC infrastructures implementing solutions for HPC in the region and making HPC resources available to research communities in SEE region which are working in a number of scientific fields with specific needs for massively parallel execution on powerful computing resources HP SEE brings together research communities and HPC operators from 14 different countries and enables them to share HPC facilities software tools data and research results thus fostering collaboration and strengthening the regional and national human network the project specifically supports research groups in the areas of computational physics computational chemistry and the life sciences The contributions presented in this book are organized in four main sections computational physics computational chemistry the life sciences and scientific computing and HPC operations *The Chemical News and Journal of Physical Science* ,1914 **Advances in Gram-Negative Oxygenic Photosynthetic Bacteria Research and Application: 2012 Edition** ,2012-12-26 Advances in Gram Negative Oxygenic Photosynthetic Bacteria Research and Application 2012 Edition is a ScholarlyBrief that delivers timely authoritative comprehensive and specialized information about Gram Negative Oxygenic Photosynthetic B in a concise format The editors have built Advances in Gram Negative Oxygenic Photosynthetic Bacteria Research and Application 2012 Edition on the vast information databases of ScholarlyNews You can expect the information about Gram Negative Oxygenic Photosynthetic B in this eBook to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant The content of Advances in Gram Negative Oxygenic Photosynthetic Bacteria Research and Application 2012 Edition has been produced by the world s leading scientists engineers analysts research institutions and companies All of the content is from peer reviewed sources and all of it is written assembled and edited by the editors at ScholarlyEditions and available exclusively from us You now have a source you can cite with authority confidence and credibility More information is available at <http://www.ScholarlyEditions.com>

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