



NATIONAL
SENIOR CERTIFICATE

GRADE 11

NOVEMBER 2020

PHYSICAL SCIENCES P2
(CHEMISTRY)
EXEMPLAR

MARKS: 100
TIME: 1 hour



The question paper consists of 10 pages, including 4 extra sheets.
Use permanent marker for writing and drawing.

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	162
B	102	17

- 3.1.1 Define the term boiling point. (2)
- 3.1.2 Is pure 1-hexanol composed of one (A) or two (B) and list one of its intermolecular forces? (2)
- 3.1.3 Name the type of intermolecular force that exists between molecules of both compounds A and B and to the pure value of these molecules. (2)
- 3.1.4 What (one) of the compounds (A or B) has a (threefold) greater mass (molar mass)? (2)
- 3.1.5 Which compound (A or B) will have the higher vapour pressure? (2)
- 3.1.6 Which compound (A or B) will have the higher surface tension? (2)

Compound B (H₂O) is shown in the table. Use a suitable intermolecular force that both compounds A and B have to identify liquid boiling point of 102 °C.

- 3.1.6 Explain why the boiling point of compound B is 100 °C (100 °C) during an investigation carried out to measure the boiling points of pure 1-hexanol and 1-hexanol. (2)

3.2 Substances C1 is added to water, whereas 1-hexanol (compound C2) is not added. It is observed that there is a change in the diagram below.



- 3.2.1 Is substance C1 (H₂O) or H₂O, and the label (C1) or (C2)? (2)
- 3.2.2 Explain the process in QUESTION 3.1.1 about the boiling in the intermolecular forces involved. (2)

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