



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 appropriate units for all calculations and answers.

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 its boiling point of these molecules. (2)
- 3.1.4 What kind of the compound A or B is 1-hexanol? Explain how you determined this. (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 16,2 °C? (2)

- 3.2 Substances D is added to pure 1-hexanol. It causes 1-hexanol to boil at a lower temperature than pure 1-hexanol. Give a reason for this. (2)



- 3.3.1 Is solute from D or E? or F? or G? (2)
- 3.3.2 Explain the process in QUESTION 3.3.1 about the solubility in the intermolecular forces involved. (2)

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