



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 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? at 0 °C and 101 kPa of external pressure? (2)
- 3.1.3 Name the type of intermolecular force that exists between molecules of both compounds A and B and its relative value of these molecules. (2)
- 3.1.4 What kind of the compound A or B is 1-hexanol? Explain based on its molecular formula. (2)
- 3.1.5 What compound B or A is 1-hexanol? Explain based on its molecular formula. (2)
- 3.1.6 What compound B or A is 1-hexanol? Explain based on its molecular formula. (2)

Compound B (M_r 102) is shown in the table. It has a relative molecular mass that is 102. It is a straight-chain alkane with a boiling point of 16,2 °C.

3.1.6 Explain why the boiling point of compound B is 16,2 °C. (2)

3.2 Add table 3.2 to the table below. It gives the boiling points of 1-hexanol and 1-hexane. (2)

Compound	Boiling point (°C)
1-hexanol	157
1-hexane	69

- 3.2.1 Is 1-hexanol a liquid or a solid at 25 °C? (2)
- 3.2.2 Explain the process in QUESTION 3.1.1 about the boiling of 1-hexanol. (2)

Physical Science Paper 2 Intermolecular Forces Investigation

M Mosston

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