



NATIONAL
SENIOR CERTIFICATE

GRADE 11

NOVEMBER 2020

PHYSICAL SCIENCES P2
(CHEMISTRY)
EXEMPLAR

Duration: 120
Time: 1 hour



The question paper consists of 10 pages, including 4 extra sheets.
Use appropriate units for all calculations.

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 ΔH_{fusion} for water in kJ mol⁻¹.

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 only composed of A and B or A, B and C or all of them present? (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 effect, if any, does compound C have on the boiling point of pure 1-hexanol? (2)
- 3.1.5 What compound (A or B) will have the higher vapour pressure? (2)
- 3.1.6 What compound (A or B) will have the higher surface tension? (2)

Compound D (M_r 102) will also be in the table. Use a suitable intermolecular force that both compounds A and B do not have to identify liquid boiling point of D (2).

- 3.1.8 Explain why the boiling point of compound B is 17°C (2 marks) (2)

3.2 Substances C1 to C4 are all in liquid solution at standard conditions (25°C) and water is separated out after the distillation process.



- 3.2.1 Is dimethyl ether (C2) or ethanol (C1), the better solvent? (2)
- 3.2.2 Explain the answer to QUESTION 3.2.1 about the solubility in the intermolecular forces involved. (2)

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N Colangelo



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