



**NATIONAL  
SENIOR CERTIFICATE**

**GRADE 11**

**NOVEMBER 2020**

**PHYSICAL SCIENCES P2  
(CHEMISTRY)  
EXEMPLAR**

**Duration:** 120  
**Time:** 13:00



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  $\Delta H_{\text{vap}}$  and  $\Delta H_{\text{fusion}}$  for 1-hexanol in kJ mol<sup>-1</sup> and  $\Delta H_{\text{fusion}}$  for water in kJ mol<sup>-1</sup>.

| 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 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 relative value of these molecules. (2)
- 3.1.4 What effect, if any, does compound B or C have on the boiling point of pure 1-hexanol? (2)
- 3.1.5 What compound B or C, will have the higher vapour pressure? (2)
- 3.1.6 What compound B or C, will have the higher surface tension? (2)

Compound C (H<sub>2</sub>O) will show in the table, has a smaller molecular mass than both compounds A and B but has a relatively higher boiling point of 100 °C.

- 3.1.6 Explain why the boiling point of compound B is 17 °C and not 100 °C. (2)

3.2 Add column C to the table in Table 1, using the given information. (10)

|     |     |    |
|-----|-----|----|
| 102 | 162 | 17 |
|-----|-----|----|

- 3.2.1 Is pure 1-hexanol A or B or C, all the substances? (2)
- 3.2.2 Explain the process in QUESTION 3.1.1 about the boiling in the intermolecular forces involved. (6)

Examiner's use

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