

AS Level Chemistry B
H033/01 Foundations of chemistry

Question Set 10

Multiple Choice Questions

- 1 A sample of gas, volume V , has its temperature raised from 0°C to 20°C . The pressure remains constant.

What is the new volume?

- A $0.005V$
- B $0.93V$
- C $1.07V$
- D $20V$

Your answer

[1]

- 2 1.0g of solid carbon dioxide is vaporised.
What volume of gas (in cm^3) is produced at RTP?

- A 0.55
- B 24
- C 550
- D 24 000

Your answer

[1]

- 3 A sample of gas has a mass of $m\text{g}$ and occupies a volume $V\text{m}^3$ at a pressure $p\text{Pa}$ and temperature $T\text{K}$.

Which expression is correct for the M_r of the gas?

- A mRT/pV
- B pV/mRT
- C pV/RT
- D mRT/npV

Your answer

[1]

4 What is the volume (in cm^3) of 4.4 g of CO_2 at RTP?

A 105.6

B 2.4×10^3

C 2.4×10^4

D 105600

Your answer

[1]

Total Marks for Question Set 10: 4

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