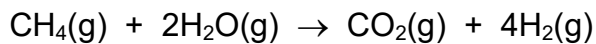


- 4 Methane and steam react to produce hydrogen.



0.80 g of methane and 1.35 g of steam react. One of the reactants is used up.

Which volume of hydrogen, measured at room conditions, will be produced?

- A** 1.80 dm³ **B** 3.60 dm³ **C** 4.80 dm³ **D** 7.20 dm³

- 4 A solution containing 4.4 g of an organic acid is exactly neutralised by 25.0 cm³ of 2.0 mol dm⁻³ sodium hydroxide. The acid has one COOH group in each molecule.

What is the empirical formula of the acid?

- A** CH₂O **B** C₂H₄O **C** C₃H₆O₃ **D** C₄H₈O₂