

AQA – Amount of substance – AS Chemistry P2

1. No.16

What is the empirical formula of a hydrocarbon that contains 90% carbon by mass?

[1 mark]**A** C_2H_3 ☐**B** C_3H_2 ☐**C** C_3H_4 ☐**D** C_4H_3 ☐

2. No.17

Which compound has the lowest relative molecular mass?

[1 mark]**A** ethanoic acid☐**B** 1-fluoropropane☐**C** propanenitrile☐**D** propylamine☐

3. No.19

What is the minimum volume of $0.0500 \text{ mol dm}^{-3}$ aqueous bromine needed to react completely with 0.0200 g of buta-1,3-diene? $(M_r \text{ of buta-1,3-diene} = 54.0)$ **[1 mark]****A** 7.40 cm^3 ☐**B** 14.8 cm^3 ☐**C** 29.6 cm^3 ☐**D** 67.5 cm^3 ☐