

Exercise 8

- 1 11.2 g
- 2 21.6 g
- 3 0.682 g of ethanoic acid and 0.523 g of ethanol
- 4 143 tonnes
- 5 14.5 g
- 6 8.0 g of sodium hydroxide, 9.75 g of copper hydroxide
- 7 12000 cm³
- 8 54.7 g of calcium nitrate, 8.0 dm³ of carbon dioxide
- 9 6 dm³ total (4.8 dm³ of nitrogen dioxide and 1.2 dm³ of oxygen)
- 10 $\text{Mg} + \text{H}_2\text{SO}_4 + 7\text{H}_2\text{O} \rightarrow \text{Mg SO}_4 \cdot 7\text{H}_2\text{O} + \text{H}_2$
41.0 g
- 11 31.9 g
- 12 324.3 g
- 13 5.11 g of ethanol, 2.67 dm³ of carbon dioxide
- 14 (i) 12.30 g of zinc hydroxide
(ii) 9.12 g of aluminium hydroxide
(iii) 9.67 g of magnesium hydroxide
- 15 0.600 dm³
- 16 0.100 g
- 17 2.94 g of sodium chloride, 1.065 g of sodium chlorate(v)
- 18 4.15×10^6 dm³ of nitrogen, 12.5×10^6 dm³ of hydrogen
- 19 63 tonnes of nitric acid, 4.8×10^7 dm³ of oxygen
- 20 2198 g of calcium carbonate, 4.395 dm³ of 10M HCl