

13 These calculations have used $L = 6.02 \times 10^{23}$

- (a) 7.22×10^{22} (b) 3.01×10^{23}
 (c) 1.20×10^{23}

14 0.53 mol H

15 0.250 mol

- 16 (a) 262.87 g mol⁻¹ (b) 176.14 g mol⁻¹
 (c) 184.10 g mol⁻¹ (d) 248.22 g mol⁻¹

17 189.1 g

18 1.5 mol

19 0.0074 mol Cl⁻

20 1.83×10^{23} C atoms

21 171 g (integer value because no calculator)

22 10.0 g H₂O

23 2.0 mol N₂ > 3.0 mol NH₃ > 25.0 mol H₂ >
 1.0 mol N₂H₄

- 24 (a) CH (b) CH₂O
 (c) C₂H₂O₂ (d) C₂H₄
 (e) C₂H₄ (f) CH₂O

25 Na₂S₂O₅

26 CoSO₄·7H₂O

27 C₁₀H₁₆N

28 NH₃

29 5.94 L

30 CoS

31 empirical formula CH; molecular formula C₇H₈

32 empirical formula H₂PO₃; molecular formula H₄P₂O₆

33 C₁₀H₁₂N₂P₂O₁₀ for both empirical and molecular formulas

34 C₇H₈O

35 Let y = mass of chalk in grams.

$$\text{moles of chalk used} = \frac{\text{mass used}}{M_r(\text{CaCO}_3)} \times$$

$$y \frac{1 \text{ g}}{100.09 \text{ g mol}^{-1}}$$

This is the same as the number of moles of carbon atoms used.

Therefore the number of carbon atoms used = moles of chalk \times (6.02 \times 10²³ mol⁻¹) =

$$\frac{6.02 \times 10^{23} y}{100.09}$$

- 36 (a) 2.50 mol (b) 5.63 mol
 (c) 665.5 g

37 (a) $2\text{C}_2\text{H}_6 + 13\text{O}_2 \rightarrow 8\text{CO}_2 + 10\text{H}_2\text{O}$
 (b) 1.59 g

38 4.355 kg

- 39 (a) $\text{CaCO}_3 \rightarrow \text{CaO} + \text{CO}_2$
 (b) 92.8%

(c) CaCO₃ is the only source of CO₂; all the CaCO₃ undergoes complete decomposition; all CO₂ released is captured; heating does not cause any change in the mass of the other minerals present.

- 40 (a) 65.2 g (b) 1.3 g H₂

41 5.23 g C₇H₈Cl₂

42 253.2 g theoretical CaSO₄; 77.9%

43 3.16 g ester

44 107 g of C₇H₈ needed

- 45 (a) 2.40 mol (b) 0.0110 mol
 (c) 44 mol

- 46 (a) 35.65 dm³ (b) 5.7 dm³

47 0.652 dm³

48 0.138 mol Br₂ and 0.156 mol Cl₂, so more molecules of Cl₂

49 0.113 dm³

50 0.28 dm³

51 90 kPa

52 16 °C

53 3.0 dm³

54 2.8 dm³

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Brendan G. Carr



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