

## Answers

- 55  $M = 133 \text{ g mol}^{-1}$  so gas is Xe
- 56  $90.4 \text{ g mol}^{-1}$
- 57 Helium
- 58  $311 \text{ dm}^3$
- 59 empirical formula and molecular formula =  $\text{SO}_2$
- 60 At higher altitude the external pressure is less. As the air in the tyre expands on heating (due to friction with the road surface), the internal pressure increases.
- 61 (a) Particles are in constant random motion and collide with each other and with the walls of the container in perfectly elastic collisions. The kinetic energy of the particles increases with temperature. There are no inter-particle forces and the volume of the particles is negligible relative to the volume of the gas.
- (b) At low temperature, the particles have lower kinetic energy, which favours the formation of inter-particle forces and reduces gas pressure.  $\frac{PV}{nRT} < 1$
- 62  $\text{NH}_3$  shows greater deviation than  $\text{CH}_4$  due to stronger intermolecular attractions, especially at low temperature.
- 63 B
- 64  $2.81 \text{ g}$
- 65  $4.93 \text{ g}$
- 66  $0.0100 \text{ mol}$
- 67  $0.400 \text{ mol dm}^{-3}$
- 68  $3.1 \text{ cm}^3$
- 69  $0.178 \text{ mol dm}^{-3}$
- 70  $0.0220 \text{ mol dm}^{-3}$ ,  $0.0602\% \text{ HCl}$
- 71  $0.106 \text{ mol dm}^{-3} \text{ Na}_2\text{SO}_4$  and  $0.115 \text{ mol dm}^{-3} \text{ Pb}(\text{NO}_3)_2$ ; assume no side reactions, all  $\text{PbSO}_4$  precipitates
- 72 1217 tonnes

4

- 73 52%  $\text{NH}_3$  by mass; assuming no side reactions occur and gases behave as ideal gases
- 74  $3.20 \times 10^2 \text{ kg}$
- 75  $0.225 \text{ mol dm}^{-3}$  (or round to  $0.23 \text{ mol dm}^{-3}$ )
- 76  $[\text{Na}_2\text{CO}_3] = \frac{VP}{x} \text{ mol dm}^{-3}$   
 $[\text{NaHCO}_3] = \frac{V(P - P_1)}{x} \text{ mol dm}^{-3}$
- 77  $100 \text{ mol O}_2$ ;  $3.2 \text{ kg}$

## Challenge yourself

- In cold climates, temperature may approach or go below the boiling point of butane so the butane stays liquid even when it is released from the pressure it is under when stored in its canister. This makes it ineffective as a fuel.
- $\text{FeCl}_3 \cdot 6\text{H}_2\text{O}$ ,  $\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$ ,  $\text{Co}(\text{NO}_3)_2 \cdot 6\text{H}_2\text{O}$
- N = 16%, P = 22%, K = 17%
- Many reactions with "useless" by-products could have high stoichiometric yield under optimum conditions, but low atom economy, for example, methanoic acid production:  

$$2\text{NaCOOH} + \text{H}_2\text{SO}_4 \rightarrow 2\text{HCOOH} + \text{Na}_2\text{SO}_4$$
 For 100% conversion with stoichiometric reactants, the yield = 100%.  

$$\text{atom economy} = \frac{2 \times 46.03}{(2 \times 68.01) + 98.08} \times 100\% = 39\%$$
- $2\text{NaN}_3(\text{s}) \rightarrow 2\text{Na}(\text{s}) + 3\text{N}_2(\text{g})$   
 $10\text{Na}(\text{s}) + 2\text{KNO}_3(\text{s}) \rightarrow \text{K}_2\text{O}(\text{s}) + 5\text{Na}_2\text{O}(\text{s}) + \text{N}_2(\text{g})$   
 $\text{K}_2\text{O}(\text{s}) + \text{Na}_2\text{O}(\text{s}) + \text{SiO}_2(\text{s}) \rightarrow \text{Na}_2\text{K}_2\text{SiO}_6$  (alkaline silicate glass)
- As  $\text{NaOH}$  dissolves, the separated  $\text{Na}^+$  and  $\text{OH}^-$  ions become hydrated, i.e. they are surrounded by  $\text{H}_2\text{O}$  molecules. This involves breaking the hydrogen bonds between the  $\text{H}_2\text{O}$  molecules in pure water and allows closer packing, which reduces the volume.

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**Mark D. Dadmun**



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