

**Activity 3A: Molar mass**

Ans p. 2

Determine the molar mass of each of the following. Use molar mass values from the periodic table on page 110 of the book. Give answers to three significant figures.

- |   |  |                                   |  |
|---|--|-----------------------------------|--|
| 1. HCl  | 2. O <sub>2</sub>                                  | 3. NO <sub>2</sub>                | 4. HNO <sub>3</sub>                      |
| 5. H <sub>2</sub> SO <sub>4</sub>                       | 6. C <sub>12</sub> H <sub>22</sub> O <sub>11</sub> | 7. C <sub>3</sub> H <sub>8</sub>  | 8. CH <sub>3</sub> OH                    |
| 9. MgO  | 10. CaCl <sub>2</sub>                              | 11. CaSO <sub>4</sub>             | 12. CoCl <sub>2</sub> ·6H <sub>2</sub> O |
| 13. Na <sub>2</sub> CO <sub>3</sub> ·10H <sub>2</sub> O | 14. CH <sub>3</sub> COO <sup>-</sup>               | 15. PO <sub>4</sub> <sup>3-</sup> |  |

**Activity 3A: Molar mass** (page 1)

- |                               |                               |                               |
|-------------------------------|-------------------------------|-------------------------------|
| 1. 36.5 g mol <sup>-1</sup>   | 2. 32.0 g mol <sup>-1</sup>   | 3. 46.0 g mol <sup>-1</sup>   |
| 4. 63.0 g mol <sup>-1</sup>   | 5. 98.1 g mol <sup>-1</sup>   | 6. 342.0 g mol <sup>-1</sup>  |
| 7. 44.0 g mol <sup>-1</sup>   | 8. 32.0 g mol <sup>-1</sup>   | 9. 40.3 g mol <sup>-1</sup>   |
| 10. 111.0 g mol <sup>-1</sup> | 11. 136.1 g mol <sup>-1</sup> | 12. 237.9 g mol <sup>-1</sup> |
| 13. 286.1 g mol <sup>-1</sup> | 14. 59.0 g mol <sup>-1</sup>  | 15. 95.0 g mol <sup>-1</sup>  |