



1. This equation represents which type of chemical reaction?

- A Single-replacement
- B Double-replacement
- C Decomposition
- D Synthesis

2. In the formula for barium chloride, (BaCl₂), barium (Ba) is written first because it is –

- A a single atom
- B a larger atom
- C the positive ion
- D the negative ion

3. Which element will most likely form covalent bonds with fluorine?

- A Carbon
- B Potassium
- C Neon
- D Tin

4. The physical process of evaporation involves –

- A ion formation
- B electron sharing
- C transferring valence electrons
- D overcoming intermolecular forces

5. A substance has molecular formula of C₈H₁₀N₄O₂. The empirical formula is –

- A C₂H₆N₂O
- B C₄H₅N₂O
- C C₉H₇N₃O
- D CHNO

6. What is the density of an aqueous solution that has a mass of 10.081 g and 12.5 mL? Your answer must use significant digits.