

8 Three organic molecules are described.

- The molecular formula of propanoic acid is  $\text{CH}_3\text{CH}_2\text{COOH}$ .
- The molecular formula of lactic acid is  $\text{CH}_3\text{CH}(\text{OH})\text{COOH}$ .
- A glucose molecule consists of 6 carbon atoms, 6 oxygen atoms and 12 hydrogen atoms only.

Which molecules have the same empirical formula?

- A** propanoic acid, lactic acid and glucose
- B** propanoic acid and lactic acid only
- C** propanoic acid and glucose only
- D** lactic acid and glucose only