

**20** Equal masses of  $\text{CaCO}_3$ ,  $\text{Ca}(\text{NO}_3)_2$ ,  $\text{BaCO}_3$  and  $\text{Ba}(\text{NO}_3)_2$  are thermally decomposed. The volume of gas produced in each experiment is measured under the same conditions.

Which compound will produce the greatest volume of gas?

**A**  $\text{CaCO}_3$

**B**  $\text{Ca}(\text{NO}_3)_2$

**C**  $\text{BaCO}_3$

**D**  $\text{Ba}(\text{NO}_3)_2$