A student set up an experiment to investigate the relationship between the temperature of an acid and the rate of carbon dioxide production when reacted with a base. In each trial the student timed how long in seconds it took to produce 100 mL of carbon dioxide in a gas syringe. The results are shown below.

| Temperature of acid (°C) | Time taken to produce 100 mL of carbon dioxide (s) |
|--------------------------|--|
| 30                       | 91   |
| 40                       | 65   |
| 50                       | 64   |
| 60                       | 21   |

9. Which of the following substances would be the base used in this investigation?
(a) sodium hydroxide
(b) magnesium
(c) calcium carbonate
(d) copper oxide