

Decomposition of Sodium Bicarbonate

Background and Purpose:

Sodium bicarbonate (sodium hydrogen carbonate) decomposes at around 50 C. One of the products of the decomposition is carbon dioxide, which makes baking soda a popular ingredient in baking. Why would the production of carbon dioxide make it popular?

The other ingredients of the decomposition could be sodium hydroxide, sodium oxide and water, or sodium carbonate and water. **In the lab, determine the correct equation.**

Equipment: Crucible without lid, Baking Soda, Balance, Crucible tong, Cupcake holder, scoopula, burner, ring stand, ring and clay triangle.

Conclusion: Explain how you determined the correct equation.