

Task:

A compound 'A' is used in fire extinguisher, as an ant acid and its small amount is also used in making bakery items. Identify the compound and explain the reason for above mentioned uses of compound 'A'

Answer:

The compound A is NaHCO_3

1) NaHCO_3 as an antacid

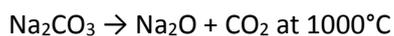
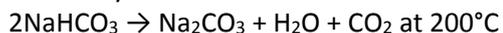
The reaction that occurs in the stomach is



The acid is neutralized.

2) NaHCO_3 as a fire extinguisher

Particularly, when heated, NaHCO_3 decomposes to release CO_2 gas which keeps oxygen out of the fire system.



3) NaHCO_3 as a bakery soda

It reacts with acidic components in batters, releasing carbon dioxide, which causes expansion of the batter and forms the characteristic texture in cakes.

The reaction is

