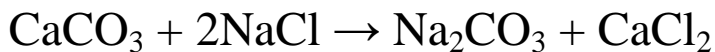


Sodium carbonate (Na_2CO_3), can be made in the reaction below



(Formula masses: $\text{CaCO}_3 = 100$ $2 \text{NaCl} = 117$ $\text{Na}_2\text{CO}_3 = 106$ $\text{CaCl}_2 = 111$)

Use the equation below to calculate the atom economy for the production of sodium carbonate.

$$\text{Atom economy} = \frac{\text{mass of required product}}{\text{total mass of products}} \times 100\%$$