

$\text{CaCO}_3 + 2\text{NaCl} \rightarrow \text{Na}_2\text{CO}_3 + \text{CaCl}_2$ In the above reaction, calculate the mass of sodium chloride required to produce 53g of sodium carbonate (relative atomic masses: C = 12.0, O = 16.0, Na = 23.0, Ca = 40.0; Cl = 35.5)