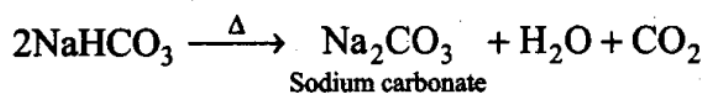
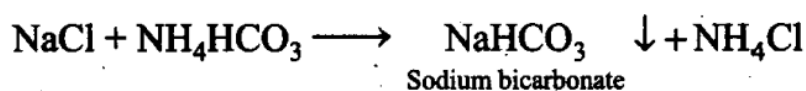
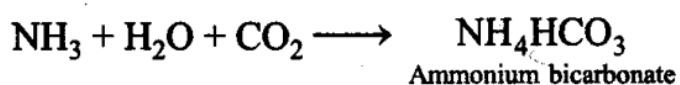


Exemplar Problems

Q11. In the synthesis of sodium carbonate, the recovery of ammonia is done by treating NH_4Cl with $\text{Ca}(\text{OH})_2$. The by-product obtained in this process is

- (a) CaCl_2
- (b) NaCl
- (c) NaOH
- (d) NaHCO_3

Sol: (a) Sodium carbonate is synthesised by Solvay or ammonia soda process. The reactions involved are



NH_3 is recovered from NH_4HCO_3 and NH_4Cl formed during the reaction.

