

Q1. Which test can tell the difference between p-chloroaniline and anilinium hydrochloride?

- a) Sandmeyer reaction
- b) Carbylamine test
- c) AgNO_3
- d) NaHCO_3

Answer: d

Explanation: An acid salt, anilinium hydrochloride, liberates CO_2 from NaHCO_3 . However, because p-chloro aniline is basic rather than acidic, it does not release CO_2 . Because p-chloro aniline lacks ionic chlorine, it does not produce white ppt when combined with AgNO_3 .