

- A standard test for the presence of chloride ion in water involves the appearance of a precipitate of AgCl upon addition of 0.05 mL of AgNO₃ (0.03 M) to 100 mL of sample. What is the minimum concentration of Cl⁻ detectable by this method? The K_{sp} of AgCl = 1.8×10^{-10} .

3

Answer: