•	The active ingredient in aspirin is the monoprotic acid, acetylsalicylic acid ( $HC_9H_7O_4$ ) that has a $K_a$ of $3.3 \times 10^{-4}$ M at 25 °C. What is the pH of a solution obtained when a tablet containing 200 mg of acetylsalicylic acid is dissolved in 125 mL of water?		
		Answer:	
•	A standard test for the presence of chloride ion in water involves the appearance of a precipitate of AgCl upon addition of 1 mL of AgNO <sub>3</sub> (0.03 M) to 100 mL of the water sample. What is the minimum concentration of Cl <sup>-</sup> detectable by this method? $K_{\rm sp}$ (AgCl) = 1.8 × 10 <sup>-10</sup> M <sup>2</sup> .		2
		Answer:	