

Задача 11.
Слабые и сред. кислоты

① Дано:

$$C_{\text{HNO}_2} = 0,01 \text{ м}$$

$$K_a = 7,9 \cdot 10^{-4}$$

$$pH = ?$$

$$pH = -\lg [H^+] = -\lg 2,8 \cdot 10^{-5} = 4,55$$

Решение:

Для слабой кислоты:

$$[H^+] = \sqrt{K_a \cdot C_{\text{HNO}_2}}$$

$$= \sqrt{7,9 \cdot 10^{-4} \cdot 10^{-2}} = 2,8 \cdot 10^{-5} \text{ моль/л}$$

$$= 4,55$$

② Дано:

$$K_{\text{PrOH}_2} = 6,3 \cdot 10^{-5}$$

$$pH = ?$$

Решение:

$$C_{\text{PrOH}_2} = C_{\text{Pr}^+} = C_{\text{OH}^-} = 0,25 \text{ м}$$

$$K_{\text{Pr}} = [C_{\text{Pr}^+}][C_{\text{OH}^-}] = 0,25^2 = 6,25 \cdot 10^{-3}$$

S - гидролизная моль/л

$$S = \sqrt[3]{\frac{K_{\text{Pr}}}{4}} = \sqrt[3]{\frac{6,25 \cdot 10^{-3}}{4}} = 1,16 \cdot 10^{-2} \text{ моль/л}$$

$$[OH^-] = \frac{S}{2} = \frac{1,16 \cdot 10^{-2}}{2} = 5,8 \cdot 10^{-3} \text{ моль/л}$$

$$[H^+] = \frac{10^{-14}}{[OH^-]} = \frac{10^{-14}}{5,8 \cdot 10^{-3}} = 1,72 \cdot 10^{-12}$$

$$pH = -\lg [H^+] = -\lg 1,72 \cdot 10^{-12} = 12 - 0,235 = 11,76$$

③ Дано:

$$V_{\text{HCl}} = V_{\text{NaOH}}$$

$$C_{\text{HCl}} = 0,1 \text{ м}$$

$$V_{\text{PrOH}_2} = 10 \text{ мл}$$

$$C_{\text{PrOH}_2} = 0,01 \text{ м}$$

$$K_{\text{PrOH}_2} = 4,6 \cdot 10^{-5}$$

Решение:

полн. самодиссоции:

$$C_{\text{HCl}} = 0,1 \cdot \frac{10}{20} = 0,05 \text{ моль/л}$$

$$C_{\text{PrOH}_2} = 0,01 \cdot \frac{10}{20} = 0,005 \text{ моль/л}$$

Для гидролизующей кислоты:

$$C_{\text{Pr}^+} = C_{\text{HCl}} = 0,05 \text{ моль/л}$$

$$C_{\text{PrOH}_2} = C_{\text{PrOH}_2} = 0,005 \text{ моль/л}$$

$$[Pr^+][Cl^-] = 0,05 \cdot 0,05 = 2,5 \cdot 10^{-3}$$



$$K_{\text{PrOH}_2} = 4,6 \cdot 10^{-5}$$

Answers For Apex Physics Semester 2

Camilla Rothe



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