

## **Calculating pH of Acids – Practice**

**Instructions:** Use the equations for pH to complete the problems below.

- 1) What is the pH of a 0.0266 M hydrobromic acid (HBr) solution?

$$\text{pH} = -\log[\text{H}^+] \rightarrow \text{pH} = -\log[0.0266] \rightarrow \boxed{\text{pH} = 1.58}$$

- 2) Calculate the hydrogen ion concentration of a solution with a pH of 6.3.

$$[\text{H}^+] = 10^{-\text{pH}} \rightarrow [\text{H}^+] = 10^{-6.3} \rightarrow \boxed{[\text{H}^+] = 5.01 \times 10^{-7}}$$

- 3) Calculate the pH of a 0.004 M hydrofluoric acid (HF) solution?

$$\text{pH} = -\log[\text{H}^+] \rightarrow \text{pH} = -\log[0.004] \rightarrow \boxed{\text{pH} = 2.40}$$

- 4) What is the hydrogen ion concentration of an acid with a pH of 2.21?

$$[\text{H}^+] = 10^{-\text{pH}} \rightarrow [\text{H}^+] = 10^{-2.21} \rightarrow \boxed{[\text{H}^+] = 6.17 \times 10^{-3}}$$

- 5) Calculate the pH of a 1.14 L solution that contains 0.19 moles of HCl.

$$[\text{H}^+] = \frac{\text{moles of solute}}{\text{liters of solvent}} \rightarrow \frac{0.19 \text{ mol}}{1.14 \text{ L}} \rightarrow 0.167 \text{ M}$$

$$\text{pH} = -\log[\text{H}^+] \rightarrow \text{pH} = -\log[0.167] \rightarrow \boxed{\text{pH} = 0.78}$$

# Ph And Poh Calculations Key

**R Barnett**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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