

Lesson 6: pH and pOH

$$\text{pH} = -\log [\text{H}_3\text{O}^+]$$

and

$$\text{pOH} = -\log [\text{OH}^-]$$

The lowercase "p" is often used to represent the 'negative log' of whatever we wish.

Other examples:

$$\text{p}K_a, \text{p}K_b, \text{p}K_w$$

$$\text{p}K_w = -\log K_w = -\log 1.0 \times 10^{-14} = 14$$

in H_2O , pH and pOH both = 14

Eg. 1: What would be the pH of a $4.2 \times 10^{-4}\text{M}$ solution of HCl?

Since HCl is a strong acid the $[\text{H}_3\text{O}^+] = [\text{HCl}] = 4.2 \times 10^{-4}\text{M}$

$$\text{pH} = -\log [\text{H}_3\text{O}^+] = -\log 4.2 \times 10^{-4} = 3.38$$

Eg. 2: What would be the pOH of a $4.2 \times 10^{-4}\text{M}$ solution of HCl?

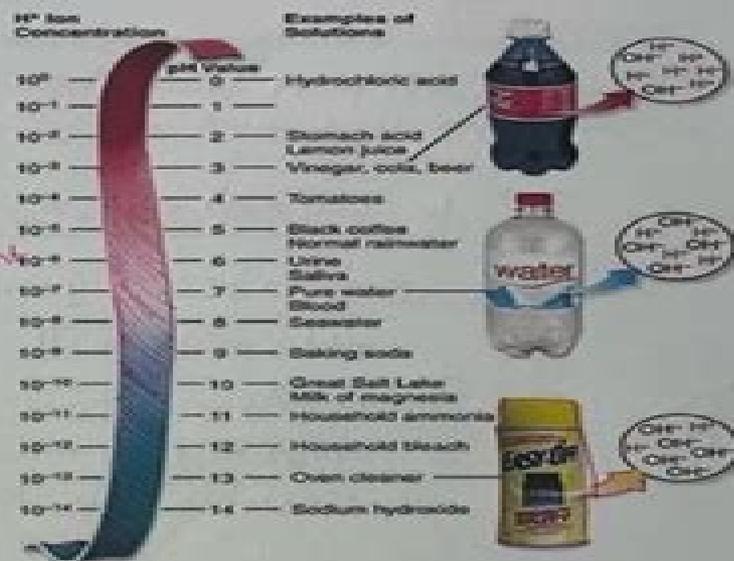
$$\text{pOH} = -\log [\text{OH}^-] = -\log 2.38 \times 10^{-11} = 10.62$$

$$K_w = K_a \cdot K_b$$

$$K_w = [\text{H}^+][\text{OH}^-]$$

$$1 \times 10^{-14} = (4.2 \times 10^{-4})[\text{OH}^-]$$

$$[\text{OH}^-] = 2.38 \times 10^{-11}$$



Professor Glickman, the lab practical joker, deftly places a single drop of hydrochloric acid on the back of Professor Bingham's neck.

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 - The Rise of Digital Reading Custom Published Chem Prin 5 E Notes Chem 12 Lm
 - Advantages of eBooks Over Traditional Books
2. Identifying Custom Published Chem Prin 5 E Notes Chem 12 Lm
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Custom Published Chem Prin 5 E Notes Chem 12 Lm
 - User-Friendly Interface
4. Exploring eBook Recommendations from Custom Published Chem Prin 5 E Notes Chem 12 Lm

- Personalized Recommendations
 - Custom Published Chem Prin 5 E Notes Chem 12 Lm User Reviews and Ratings
 - Custom Published Chem Prin 5 E Notes Chem 12 Lm and Bestseller Lists
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 - Custom Published Chem Prin 5 E Notes Chem 12 Lm Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Custom Published Chem Prin 5 E Notes Chem 12 Lm
 - Highlighting and Note-Taking Custom Published Chem Prin 5 E Notes Chem 12 Lm
 - Interactive Elements Custom Published Chem Prin 5 E Notes Chem 12 Lm
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 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Custom Published Chem Prin 5 E Notes Chem 12 Lm
 9. Balancing eBooks and Physical Books Custom Published Chem Prin 5 E Notes Chem 12 Lm
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Custom Published Chem Prin 5 E Notes Chem 12 Lm
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Custom Published Chem Prin 5 E Notes Chem 12 Lm
 - Setting Reading Goals Custom Published Chem Prin 5 E Notes Chem 12 Lm
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Custom Published Chem Prin 5 E Notes Chem 12 Lm

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 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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