

14.3

HYDROGEN IONS AND ACIDITY

Section Review

Objectives

1. Calculate concentrations based on the pH of acids and bases and vice versa.
2. Calculate pH values and concentrations based on the pH and K_a or K_b and vice versa.
3. Calculate the pH of weak acids and bases.

Vocabulary

- | | | |
|------------------------|-----------------------------|-------------------|
| 1. autoionization | 2. conjugate acid-base pair | 3. weak acid/base |
| 4. ionization | 5. K_a | 6. K_b |
| 7. ionization constant | 8. pH | |

Key Equation

- | | |
|-----------------------|-----------------------|
| 1. $[H^+] = 10^{-pH}$ | 2. $pH = -\log [H^+]$ |
| 3. $pH = -\log [H^+]$ | 4. $[H^+] = 10^{-pH}$ |

Part A Completion

Write the equation and/or the numerical value(s) for the reaction(s) described. Show the calculation for pH or percent ionization when required. Assume acids are monoprotic unless noted.

1. What substance is 1.0×10^{-7} molar hydrogen ion concentration? The concentration of this acidic substance is 0.001 molar.
2. Hydrochloric acid ionizes from 1.0×10^{-2} to 0.43 molar. What is the concentration of the acid and the $[H^+]$? K_a is 1.0×10^6 . Ionization is 1.0×10^6 percent ionized.
3. 1.0×10^{-7} molar acetic acid has a K_a of 1.8×10^{-5} . What is the percent ionization? K_b is 5.6×10^{-10} .
4. Ionization constant values are listed in Table 14.3.

1.	acetic acid
2.	0.001 molar HCl
3.	0.43 molar
4.	hydrochloric acid
5.	acetic acid
6.	0.43 molar
7.	acetic acid
8.	1.0
9.	acetic acid
10.	hydrochloric acid
11.	hydrochloric acid

19 2 Hydrogen Ions And Acidity Section Review Answers

American Society for Testing Materials

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web jun 11 1992 recovering from trauma in the author s experience working with survivors involves three broad stages recovering a sense of safety and empowerment forming healthy and healing relationships with others and processing

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web griefline tel 1300 845 745 beyondblue tel 1300 22 4636 traumatic experiences it is normal to have strong emotional or physical reactions following a distressing event on most occasions though these reactions subside as a part of the body's natural healing and recovery process

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web jun 6 2023 trauma recovery tip 1 get moving trauma disrupts your body's natural equilibrium freezing you in a state of hyperarousal and fear as well as burning off adrenaline and releasing endorphins exercise and movement can actually help repair your nervous system try to exercise for 30 minutes or more on most days

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web nov 9 2023 it can take time to recover following a traumatic event one study found that 20 of people recovered within three months 27 within six months and 50 of people with ptsd recovered within two years the study also found that 77 had fully recovered within a decade