

## 19.2

## HYDROGEN IONS AND ACIDITY

## Section Review

## Objectives

1. Calculate  $K_a$  and  $K_b$  for weak acids and bases, and vice versa for weak acids and bases.
2. Calculate  $K_a$  and  $K_b$  for weak acids and bases, and vice versa for weak acids and bases.
3. Calculate the pH of weak acids and bases.

## Vocabulary

- |                 |                                      |                 |
|-----------------|--------------------------------------|-----------------|
| acid            | acid dissociation constant ( $K_a$ ) | acid ionization |
| acidic solution | acidic solution                      | acidic solution |
| acidic solution | acidic solution                      | acidic solution |

## Key Equations

- |   |  |
|---|--|
| $K_a = \frac{[H^+][A^-]}{[HA]}$ (Equation 19.1) | $K_b = \frac{[OH^-][HB^+]}{[B]}$ (Equation 19.2) |
|---|--|

## Part A Completion

Write the chemical formula for each of the following acids, bases, and salts, showing the correct number of atoms of each element within each molecule or formula.

1. Acetic acid,  $CH_3COOH$
2. Hydrofluoric acid,  $HF$
3. Hydrochloric acid,  $HCl$
4. Hydrobromic acid,  $HBr$
5. Hydroiodic acid,  $HI$
6. Nitric acid,  $HNO_3$
7. Sulfuric acid,  $H_2SO_4$
8. Phosphoric acid,  $H_3PO_4$
9. Acetic acid,  $CH_3COOH$
10. Hydrofluoric acid,  $HF$
11. Hydrochloric acid,  $HCl$
12. Hydrobromic acid,  $HBr$
13. Hydroiodic acid,  $HI$
14. Nitric acid,  $HNO_3$
15. Sulfuric acid,  $H_2SO_4$
16. Phosphoric acid,  $H_3PO_4$
17. Acetic acid,  $CH_3COOH$

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15. Sulfuric acid,  $H_2SO_4$
16. Phosphoric acid,  $H_3PO_4$
17. Acetic acid,  $CH_3COOH$

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**PT Brinkman**



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web a lug nut torque spec chart provides the proper torque specifications for your car s wheels it serves as a guide to making sure you apply the right amount of force when installing the lug nuts read on to learn more about the lug nut torque its specs and how to read its spec chart

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web a guide for wheel nut settings for your trailer this guide will cover everything from wheel nut torque settings wheel nut

tightening techniques and patterns to wheel nut tightening service intervals tightening of wheel nuts to ensure that the wheel is located on the hub properly please use the following steps to correctly carry out this task

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web oct 26 2021 a cost free if not entirely accurate way to check wheel nut tightness is with the wheel brace supplied with your car s tool kit vehicle manufacturers design these tools to provide adequate leverage and therefore the torque required to tighten wheel nuts to the recommended settings

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web this wheel lug torque chart is collected information from many different resources to get you as much up to date specs as possible as torque specifications become available this table will be updated regularly

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web jun 24 2021 what are wheel torque specs rotating tires and installing new wheels are jobs that many of us can handle ourselves within minutes you can complete the task and get back on the road but doing the job right requires more than just securing your wheel components with lug nuts or bolts

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web do not use 90 cone nuts against the disc face note hub stud and spoke wheel manufacturers may have different torque requirements consult accuride field engineering at 800 869 2275 if torque recommendations conflict refer to accuride s rim wheel safety service manual for information on torque and nut tightening sequence 36

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