

# 17

## WATER AND AQUEOUS SYSTEMS

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### SECTION 17.1 LIQUID WATER AND ITS PROPERTIES (pages 475–478) ● ■ ◀ ▶

*This section explains the hydrogen bonding that occurs in water molecules and how high surface tension and low vapor pressure can be explained in terms of hydrogen bonding.*

#### ► The Water Molecule (pages 475–476)

- What unique molecular compound is the foundation of all life on Earth?  
water
- Approximately what fraction of Earth's surface is covered in water? 3/4
- Circle the letter next to each sentence that is true concerning water molecules.
  - Each O — H covalent bond in a water molecule is nonpolar.
  - b. In a water molecule, the less electronegative hydrogen atoms acquire a slight positive charge and the oxygen atom acquires a slight negative charge.
  - c. Because the water molecule has an H — O — H bond angle of 105°, the molecule as a whole is polar.
- The diagram below depicts a water molecule. Complete the labels showing the locations of the hydrogen atoms, the oxygen atom, and the regions of positive and negative charge.



- List five important properties of water that result from hydrogen bonding.
  - high surface tension
  - low vapor pressure
  - high specific heat capacity
  - high heat of vaporization
  - high boiling point

# Chapter 15 Water And Aqueous Systems Guided Practice Problem

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Introductory Guide to EC Competition Law and Practice Valentine Korah, 1994      *A Comprehensive Guide to Solar Energy Systems* Trevor Letcher, Vasilis M. Fthenakis, 2018-05-17 A Comprehensive Guide to Solar Energy Systems With Special Focus on Photovoltaic Systems, the most advanced and research focused text on all aspects of solar energy engineering is a must have edition on the present state of solar technology integration and worldwide distribution. In addition, the book provides a high level assessment of the growth trends in photovoltaics and how investment planning and economic infrastructure can support those innovations. Each chapter includes a research overview with a detailed analysis and new case studies that look at how recent research developments can be applied. Written by some of the most forward thinking professionals, this book is an invaluable reference for engineers. Contains analysis of the latest high level research and explores real world application potential in relation to developments. Uses system international SI units and imperial units throughout to appeal to global engineers. Offers measurable data written by a world expert in the field on the latest developments in this fast moving and vital subject.      **A Working Guide to Process Equipment, Fifth Edition** Norman P. Lieberman, Elizabeth T. Lieberman, 2022-06-01 The latest methods for troubleshooting and maintaining process equipment. This extensively revised and updated practical resource fully explains how to diagnose, troubleshoot and correct problems across a broad range of industries, all without complex equations and without ever losing sight of the importance of direct field measurements and observations. This fifth edition features new and expanded coverage of Causes and Effects of Wet Steam on Turbines and Strippers, Distillation Design Errors and Inspecting Tower Internals, Setting Pressure Relief Valves on Vessels and Heat Exchangers, Reduction of Flare Losses, Safer Procedures for Sampling Hazardous Material, Taking Field Measurements Safely and Effectively. Filled with real world examples and illustrations, A Working Guide to Process Equipment, Fifth Edition clearly demonstrates how theory applies to solving real world plant operation problems. Selected

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