

Name _____ Date _____ Class _____

16**SOLUTIONS****SECTION 16.1 PROPERTIES OF SOLUTIONS (pages 471–477)**

This section identifies the factors that affect the solubility of a substance and determine the rate at which a solute dissolves.

► Solution Formation (pages 471–472)

Look at Figure 16.1 on page 471 to help you answer Questions 1 and 2.

- Underline the condition that causes sugar to dissolve faster in water.
 - as a whole cube or in granulated form?
 - when allowed to stand or when stirred?
 - at a higher temperature or a lower temperature?
- Name three factors that influence the rate at which a solute dissolves in a solvent.
 - agitation (stirring or shaking)
 - temperature
 - particle size
- Is the following sentence true or false? Finely ground particles dissolve more rapidly than larger particles because finer particles expose a greater surface area to the colliding solvent molecules. true

► Solubility (pages 472–473)

- Complete the following table showing the steps in a procedure to determine the total amount of sodium chloride that will dissolve in 100 g of water at 25°C.

Procedure	Amount Dissolved	Amount Not Dissolved
Add 36.0 g of sodium chloride to the water	36.0 g	0.0 g
Add an additional 1.0 g of sodium chloride	<u>0.2 g</u>	<u>0.8 g</u>
Determine the total amount that dissolves	<u>36.2 g</u>	

- The amount of a substance that dissolves in a given quantity of solvent at a constant temperature is called the substance's solubility at that temperature.
- If a solution contains the maximum amount of solute for a given quantity of solvent at a constant temperature, it is called a(n) saturated solution.

Section 16 3 Colligative Properties Of Solutions Key

G Psacharopoulos



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General Chemistry Donald A. McQuarrie, Stanley Gill, 2011-06-15 This Fourth Edition of McQuarrie's classic text offers a thorough revision and a quantum leap forward from the previous edition Taking an atoms first approach it promises to be another ground breaking text in the tradition of McQuarrie's many previous works This outstanding new text available in a soft cover edition offers professors a fresh choice and outstanding value **Oswaal JEE (Main) Question Bank**

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