

# Lesson 122: Solubility Notes

Chemistry with Lab

Saturated: solution containing all the \_\_\_\_\_ possible at given conditions of \_\_\_\_\_ and \_\_\_\_\_.

Unsaturated: solution containing \_\_\_\_\_ dissolved \_\_\_\_\_ than the \_\_\_\_\_ amount that can be \_\_\_\_\_ at given conditions of \_\_\_\_\_ and \_\_\_\_\_.

Supersaturated: unusual solution containing \_\_\_\_\_ dissolved \_\_\_\_\_ than is normally \_\_\_\_\_ at given conditions of \_\_\_\_\_ and \_\_\_\_\_.

Solubility: a \_\_\_\_\_ of how much \_\_\_\_\_ can \_\_\_\_\_ in a given amount of \_\_\_\_\_ at a specific \_\_\_\_\_.

Dilute Solution: The amount of \_\_\_\_\_ dissolved is \_\_\_\_\_ in relation to the amount of \_\_\_\_\_ present.

Concentrated Solution: The amount of \_\_\_\_\_ dissolved is \_\_\_\_\_ in relation to the amount of \_\_\_\_\_ present.

## Factors Affecting Solubility

1) \_\_\_\_\_ of \_\_\_\_\_ and \_\_\_\_\_: " \_\_\_\_\_ dissolves \_\_\_\_\_."

## Lesson 122: Solubility Notes (cont.)

Chemistry with Lab

2) \_\_\_\_\_

- Generally, increasing the \_\_\_\_\_ of the solution \_\_\_\_\_ the solubility of a \_\_\_\_\_ solute

3) \_\_\_\_\_

- Only affects the \_\_\_\_\_ of a \_\_\_\_\_
- \_\_\_\_\_ pressure \_\_\_\_\_ solubility
- \_\_\_\_\_ pressure \_\_\_\_\_ solubility
- Henry's Law: The \_\_\_\_\_ of a \_\_\_\_\_ dissolved in a given \_\_\_\_\_ of \_\_\_\_\_ is \_\_\_\_\_ proportional to the \_\_\_\_\_ of the \_\_\_\_\_.

### **The Chemistry Quiz**

CR1. \_\_\_\_\_ CR2. \_\_\_\_\_ 1. \_\_\_\_\_ 2. \_\_\_\_\_ 3. \_\_\_\_\_

4. \_\_\_\_\_ 5. \_\_\_\_\_