PARTS PER MILLION WORKSHEET

1. 25 grams of a chemical is dissolved in 75 grams of water.

a. What is the concentration of the chemical in parts per hundred (pph)?

b. What is the concentration of the chemical in parts per thousand (ppt)?

c. What is the % of solute in this solution?

2. Suppose 17 grams of sucrose is dissolved in 183 grams of water. What is the concentration of sucrose in pph ? ppm?

3. 35 grams of ethanol is dissolved in 115 grams of water. What is the concentration of ethanol in parts per billion (ppb)?

4. The solubility of NaCl is 284 grams/100 grams of water. What is this concentration in ppm?

5. The solubility of AgCl is 0.008 grams/100 grams of water. What is this concentration in ppm?

6. A certain pesticide has a toxic solubility of 5.0 grams/Kg of body weight. What is this solubility in ppm?

7. Change 50 ppm to ppb.

8. How many parts per million (ppm) is 1mg/L?

9. When lemonade is 1000 ppm it is said to be sour. Is 2 ml of lemon juice added to 1000 ml of water considered sour?