

Science 9 ppm Practice

1. What is the concentration of a solution, in parts per million, if 0.02 gram of NaCl is dissolved in 1000. grams of solution?
2. An aqueous solution has 0.0070 gram of oxygen dissolved in 1000. grams of water. Calculate the dissolved oxygen concentration of this solution in parts per million.
3. If 0.025 gram of $\text{Pb}(\text{NO}_3)_2$ is dissolved in 100. grams of H_2O , what is the concentration of the resulting solution, in parts per million?
4. What is the concentration of a solution, in parts per million, if 0.02 gram of Na_3PO_4 is dissolved in 1000 grams of water?
5. What is the concentration of $\text{O}_{2(g)}$, in parts per million, in a solution that contains 0.008 gram of $\text{O}_{2(g)}$ dissolved in 1000 grams of $\text{H}_2\text{O}_{(l)}$?

6. What is the total mass of solute in 1000 grams of a solution having a concentration of 5 parts per million?
7. What is the concentration of $O_{2(g)}$, in parts per million, in a solution that contains 0.008 gram of $O_{2(g)}$ dissolved in 1000. grams of $H_2O_{(l)}$?
8. What is the concentration in ppm of selenium if 1.3 milligrams is found in 2500 kg of soil?
9. Calculate the mass of solute PCB's in a 65 Kg person, if the concentration is 4 ppm?
10. What is the concentration, in ppm, if 0.808 grams of $CaCl_2$ is dissolved in 250.0 ml of water.

11. What is the concentration of chloride in a solution made with 0.808 grams of CaCl_2 and 250.0 ml of water.? Give your answer in ppm.