

The following questions are 2 points each:

1. What is another name for a solution?
2. Why/how is water able to dissolve so many compounds?

DEFINE the following terms. (1 point Each)

3. Supersaturated-
4. Solute-
5. Dilute solution-
6. Solvent-
7. Aqueous solution-
8. Standard solution-
9. Saturated solution-
10. Unsaturated solution-
11. Concentrated solution

The following Questions are 3 points each:

12. What is the percent by mass of sodium acetate if I have 85 grams of sodium acetate dissolved into 750 grams of water?
13. What is the percent by mass of calcium nitrate if I have 28 grams of calcium nitrate dissolved into 390 grams of water?
14. What is the percent by mass of calcium chloride if in 730 grams of solution I have 98 grams of calcium chloride?

15. What is the percent by mass of calcium chloride if in 378 grams of solution I have 193 grams of calcium chloride?
16. If I need to make 3870 grams of a solution that is 23.8% by mass sugar, how many grams of sugar will I need to dissolve into the water?
17. How many grams of water are in the above solution?
18. If I need to make 835 grams of a solution that is 67.2% by mass salt, how many grams of salt will I need to dissolve into the water?
19. How many grams of water are in the above solution?