

Drag and drop (fill in the blank)

solute	solute	solvent	increases
increases	decreases	temperature	nonpolar
polar	electrolyte	nonelectrolyte	higher

In a solution, the 1. _____ does the dissolving and the 2. _____ is the substance being dissolved. For solids dissolving in liquids, the speed of dissolving 3. _____ with increased surface area, with increased temperature, and with stirring. For gases in liquids, the speed of solubility 4. _____ with increased temperature and stirring, but 5. _____ with increased pressure.

In general, polar solutes dissolve in polar solvents and do not dissolve in 6. _____ solvents. Usually, nonpolar solvents dissolve nonpolar solutes and do not dissolve 7. _____ solutes.

Solubility is usually express as the maximum number of grams of 8. _____ that will dissolve in 100 grams of solvent at a certain 9. _____

A substance that forms charged ions in solution and can conduct electricity is called a(n) 10. _____. A(n) 11. _____ does not ionize in water and cannot conduct electricity. The boiling point of a water solution of any substance is 12. _____ than the boiling point of water. The freezing point of a water solution of any substance is 13. _____ than the freezing point of pure water.