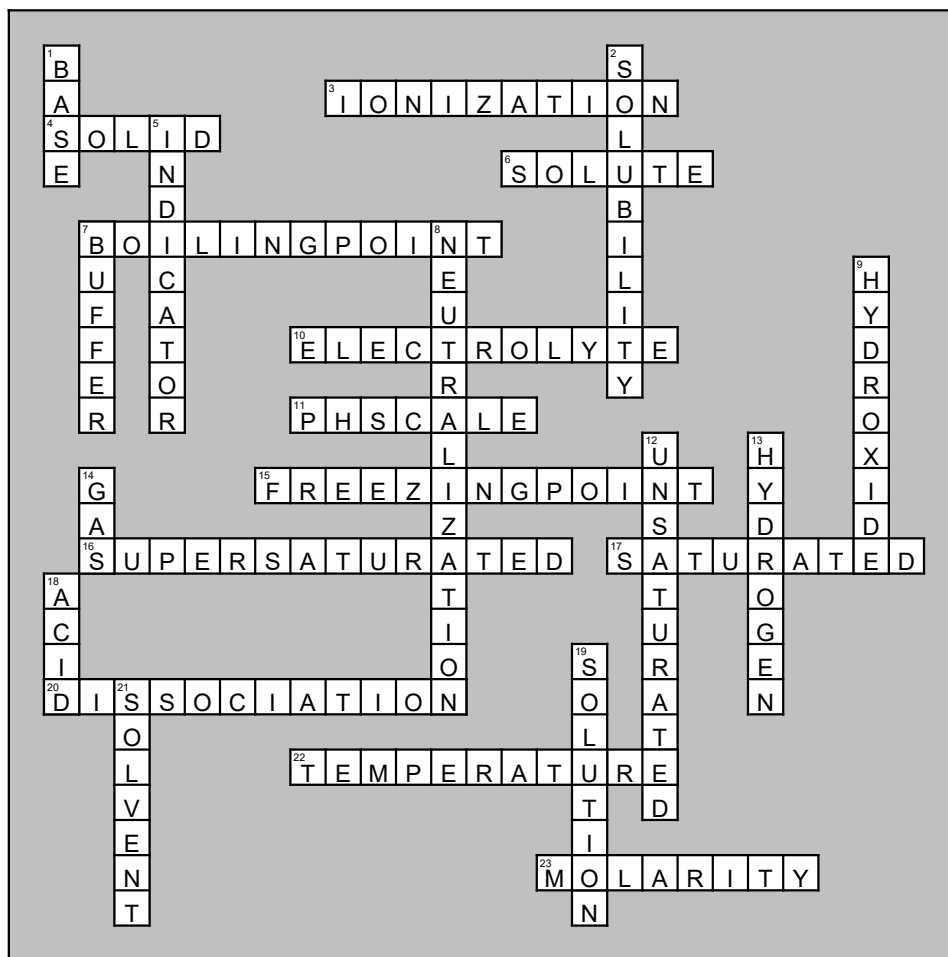


Crossword



Across

- The dissolving process in which molecules react to form ions by gaining or losing electrons in a chemical reaction. A new substance is formed.
- Phase of matter that dissolves most in warmer temperature solutions.
- The substance that is dissolved in a solution.
- Elevates when more solute is added to a solution. Pressure cooking uses this colligative property.
- Substances that dissociate or ionize in water. Strong acids or bases dissociate almost completely.
- Chemists use a 0 to 14 range to indicate the concentration of hydronium ions in a solution. Acids are lower than 7, bases higher than 7. 7 is neutral.
- Depresses (gets lower) when more solute is added to a solution. Making ice cream and thawing roads use this colligative property.
- A very unstable solution that contains more solute than normal due to heating the solution. e.g. hand warmers, hand candy
- A solution that holds the maximum amount of solute it can before settling out. Adding more solute will not dissolve in that solvent at that temperature.
- Dissolving of an ionic compound that separates into ions (cations and anions) in solution by a physical change.
- The amount of solute that can dissolve in a solvent depends on the _____ and phase of the solution. Heating usually dissolves more solid.
- The number of moles of solute found in a liter of solution. Establishes a standard for concentration (amount of solute dissolved) of solutions.

Down

- A substance whose pH is greater than 7. Found in drain cleaner, soap, antacids, deodorant. Bitter taste. Slippery feel.
- The ability of a solute to dissolve in a solvent. e.g. grams of solute/100 grams of solvent
- Substance that changes color in an acid or base. Litmus turns red in an acid and blue in a base.
- Weak acids and bases are used to form solution that resist changes in pH.
- When a strong acid and strong base are mixed to form salt and water (harmless) with a pH of 7. A double replacement reaction.
- Bases contain excess _____ ions. The concentration of these ions raises the pH.
- A solution that can hold more solute. Describes a glass of water with a pinch of salt added to it.
- Acids contain excess _____ ions. The concentration of these ions lowers the pH. More accurately called "hydronium" ions.
- Phase of matter that dissolves most in colder temperature solutions.
- A substance whose pH is less than 7. Found in soda pop, stomach digestive juice, vinegar, car batteries and most fruits. Sour taste.
- Homogeneous mixture, having one phase and no boundaries. Looks like "same kind".
- The substance that dissolves the solute in a solution.