





SOLUBILITY CAN BE DESCRIBED IN WORDS...

saturated solution a solution that contains the maximum quantity of solute at a given temperature and pressure **unsaturated solution** a solution in which more solute can dissolve at a given temperature and pressure











supersaturated solution a solution that contains more than the maximum quantity of solute that it should at a given temperature and pressure

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SUMMARY

- The solubility of a solution is expressed as the mass of solute required to form a saturated solution in 100 g of water at a given temperature.
- Solutions may be unsaturated, saturated, or supersaturated depending on the quantity of solute they hold at a given temperature and pressure.
- A solubility curve shows the solubility of a solute in a specific solvent over a range of temperatures.
- The solubility of solids generally increases as the temperature increases, while the solubility of gases decreases.
- The solubility of a gas increases as the applied pressure increases. Pressure has no significant effect on the solubility of solids and liquids.