

Science Vocabulary #5¹

Colligative Properties – Properties of a solution which depend on the number of particles, not the chemical identity.

Freezing – point Depression – A colligative property of a solution whereby the freezing point of the solution is lower than that of the solvent.

Boiling point Elevation - A colligative property of a solution whereby the boiling point of the solution is higher than that of the pure solvent.

Osmosis – The passage of solvent molecules, but not solute particles, through a semi-permeable membrane.

Semi-permeable membrane – A material which selectively allows certain molecules to pass through, but other molecules cannot pass through.

Osmotic Pressure – The back pressure that would be applied to prevent osmosis.

Osmolarity – Molarity multiplied by the number of moles of particles in the solution.

¹ Chemistry Matter and Its Changes, James E. Brady and Fred Senese, 4th Edition, John Wiley & Sons 2004, Glossary G-1 through G-19.