

## What Is The Vapor Pressure Of Solvent In An Aqueous Solution

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Vapor Pressure

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Vapor pressure (or vapour pressure in British English; see spelling differences) or equilibrium vapor pressure is defined as the pressure exerted by a vapor in thermodynamic equilibrium with its condensed phases (solid or liquid) at a given temperature in a closed system. The equilibrium vapor pressure is an indication of a liquid's evaporation rate. It relates to the tendency of particles to ...

[Vapor pressure - Wikipedia](#)

The vapor pressure of a liquid is the equilibrium pressure of a vapor above its liquid (or solid); that is, the pressure of the vapor resulting from evaporation of a liquid (or solid) above a sample of the liquid (or solid) in a closed container.

[Vapor Pressure - Purdue Chemistry](#)

Vapour pressure, pressure exerted by a vapour when the vapour is in equilibrium with the liquid or solid form, or both, of the same substance—i.e., when conditions are such that the substance can exist in both or in all three phases. Vapour pressure is a measure of the tendency of a material to change into the gaseous or vapour state, and it increases with temperature.

[vapour pressure | Definition & Facts | Britannica](#)

Vapor pressure is the pressure exerted by a vapor which is in thermodynamic equilibrium with its condensed phases (solid or liquid) in a closed system at a given temperature. The equilibrium - in other words, steady state - between evaporation and condensation occurs when:

[Vapor Pressure of Water. Calculator | Definition | Formulas](#)

A The vapor pressure curve of water intersects the  $P = 1000$  mmHg line at about  $110^\circ\text{C}$ ; this is therefore the boiling point of water at 1000 mmHg. B The vertical line corresponding to  $250^\circ\text{C}$  intersects the vapor pressure curve of mercury at  $P = 75$  mmHg. Hence this is the pressure required for mercury to boil at  $250^\circ\text{C}$ .

[11.5: Vapor Pressure - Chemistry LibreTexts](#)

Vapor pressure is the pressure exerted by the vapor molecules of a substance in a closed system. It occurs at equilibrium, i.e., when the molecules are both vaporizing and condensing at the same rate at a particular pressure.

[Vapor Pressure Calculator | Clausius-Clapeyron Equation](#)

Vapour pressure can be defined as pressure formed by the vapor of the liquid (or solid) over the surface of the liquid. This pressure is formed in a thermodynamic equilibrium state in a closed container at a certain temperature. Liquid 's evaporation rate is identified by the equilibrium vapor pressure.

[Vapour Pressure - Definition, Raoult's Law, Formula, Videos](#)

The boiling point is defined as the temperature at which the saturated vapor pressure of a liquid is equal to the surrounding atmospheric pressure. For water, the vapor pressure reaches the standard sea level atmospheric pressure of 760 mmHg at  $100^\circ\text{C}$ .

[Vapor Pressure - Georgia State University](#)

Vapor pressure is constant when there is an equilibrium of water molecules moving between the liquid phase and the gaseous phase, in a closed container. The vapor pressure of a liquid is the point at which equilibrium pressure is reached, in a closed container, between molecules leaving the liquid and going into the gaseous phase and molecules leaving the gaseous phase and entering the liquid phase.

[Vapor Pressure and Water - usgs.gov](#)

Vapor pressure is the pressure exerted by vapor which is in equilibrium with its condensed form (liquid or solid phase). But when considering the vapor pressure, the system where the vapor exists should be a closed system with a constant temperature.

[Difference Between Partial Pressure and Vapor Pressure ...](#)

The boiling point of a substance is the temperature at which the vapor pressure of the liquid equals the pressure surrounding the liquid, and the liquid changes into a vapor. The boiling point of a liquid varies depending upon the surrounding pressure. A liquid in a partial vacuum has a lower boiling point than when that liquid is at atmospheric pressure.

[Water Boiling Points at Vacuum Pressure](#)

Vapor pressure is the pressure of the vapor over a liquid (and some solids) at equilibrium. Now, what does that definition mean? I'm going to go through some explanation steps that, hopefully, give you a correct idea of vapor pressure. 1) Imagine a closed box of several liters in size.

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### ChemTeam: Vapor Pressure

By definition, vapor pressure is the amount of pressure within a vapor or gas when the substance is in an equilibrium state. In other words, when a liquid or solid is in a closed container and some molecules evaporate while others return to the liquid or solid state, the pressure that can be measured within that container relates to the vapor.

### What Is Vapor Pressure? - wiseGEEK

Vapor pressure is the pressure caused by the evaporation of liquids. Three common factors that influence vapor pressure are surface area, intermolecular forces and temperature. The vapor pressure of a molecule differs at different temperatures. vapor pressure liquid evaporation

### Vapor Pressure - Concept - Chemistry Video by Brightstorm

The pressure exerted by a vapor on the solid or liquid phase with which it is in equilibrium. At pressures lower than the vapor pressure, atoms or molecules of the liquid or solid being vaporized can escape from the surface of the liquid or solid. At the vapor pressure, they cannot escape because the two phases are in equilibrium.

### Vapor pressure - definition of vapor pressure by The Free ...

The vapor pressure is a property of the substance and is constant at a given temperature. It increases when temperature increases. 2.) The boiling point of a substance is the temperature at which the vapor pressure of the liquid equals the pressure surrounding the liquid.

### Vapor pressure (video) | States of matter | Khan Academy

In chemistry, vapor pressure is the pressure that is exerted on the walls of a sealed container when a substance in it evaporates (converts to a gas). To find the vapor pressure at a given temperature, use the Clausius-Clapeyron equation:  $\ln(P_1/P_2) = (-H_{\text{vap}}/R)((1/T_2) - (1/T_1))$ .

### 3 Ways to Calculate Vapor Pressure - wikiHow

Definition of vapor pressure : the pressure exerted by a vapor that is in equilibrium with its solid or liquid form — called also vapor tension Examples of vapor pressure in a Sentence

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