

# How does latent heat work

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Latent heat is the quantity of heat absorbed or released by a material, while changing its phase at a constant temperature. A phase change material (PCM) melts and takes up energy corresponding to ...

Latent heat storage is a method of thermal energy storage that works by changing the physical state of a substance, such as from solid to liquid. An everyday example is an ice cube in a drink, which ...

The energy or heat released or absorbed during a phase change of a material is known as latent heat. It might be from a gas to a liquid or from a ...

Latent heat plays a significant role in many everyday phenomena, often influencing comfort and natural processes. When humans sweat, water evaporates from the skin. This ...

Latent heat is the energy absorbed or released during phase changes like melting and boiling. Latent heat of fusion and vaporization are key ...

The process of dissolving one substance in another often ...

They are latent, or hidden, because in phase changes, energy enters or leaves a system without causing a temperature change in the system; so, in effect, the ...

Latent heat is the heat required for an object to change phase (melt, boil, freeze, etc.). Learn about the types, formulas and examples of latent heat, and how it ...

OverviewUsageHistorySpecific latent heatSpecific latent heat for condensation of water in cloudsSee alsoThe terms sensible heat and latent heat refer to energy transferred between a body and its surroundings, defined by the occurrence or non-occurrence of temperature change; they depend on the properties of the body. Sensible heat is sensed or felt in a process as a change in the body's temperature. Latent heat is energy transferred in a process without change of the body's temperature, for example, in a phase change (...)



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Explore the role of latent heat in energy transfer and phase changes, and its impact on climate, daily life, and technological applications.

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