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## Vapor pressure and enthalpy of vaporization of water lab answers

When a sample of liquid is introduced into a container, the molecules tend to escape from the confinement of the liquid state into the gaseous state in a process called evaporation. Eventually, the vaporization rate and the condensation rate will become equal, and the pressure in the container will level off to some constant value. The system is said to be in equilibrium, and the pressure of the gas that exists on the liquid is called vapour pressure. The higher the vapour pressure, the more volatile the liquid. In addition, vaporization is an endothermic process, as energy is needed to overcome the attraction that a liquid molecule feels for its neighbors. The energy needed to evaporate a mole of a substance at constant temperature and pressure is called the molar enthalpy of vaporization,  $^{2}$ ADHap. Its magnitude is a measure of the strengths of the intermolecular forces in a pure substance. The mathematical relationship between the vapour pressure and the enthalpy of vaporization of a pure liquid is summarized by the Clausius-Clapeyron equation. The ratio can be written simply as:  $\ln P = -\frac{1}{1} \ln \sqrt{RT} + C$  where  $\frac{1}{1} \ln$ 

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