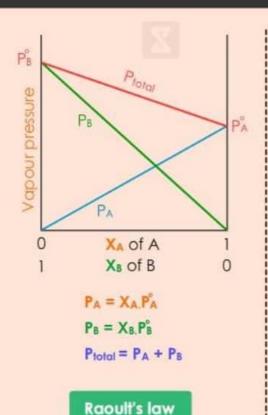
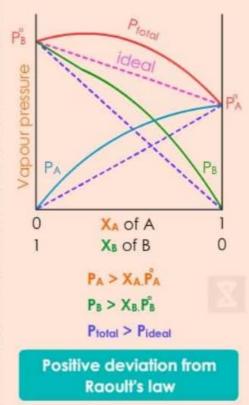
RAOULT'S LA

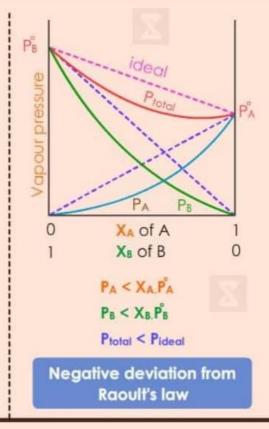
The vapour pressure of a solution of a non-volatile solute is equal to vapour pressure of the pure solvent at that temperature multiplied by its mole fraction.

VAPOUR PRESSURE OF THE SOLUTION

MOLE FRACTION OF THE SOLVENT



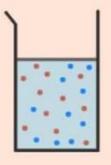




HENRY'S LAW Gas Increase Liquid $P = K_H.C$

At a constant temperature, the amount of a given gas that dissolves in a given type and volume of liquid is directly proportional to the partial pressure of that gas in equilibrium with that liquid.

VAPOUR PRESSURE



Ptotal = PA + PB

 $P_A = X_A$. P_A

PR = XR. PR

Each substance has a lower vapour pressure from that of a pure substance!

Even though it looks like the mix may be "50/50", "A" particles have a higher vapour pressure (evaporate more easily) than the "B" substance.



