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Solution · Solution = solute + solvent (minor) (major)-component · Mixture -> Homo/Hetero-geneous mixture two or more different substances (mixed not chinically combined) · Homogeneons -> uniform/only single phase o Modes of expressing concentration (1) Molarity -> mot/L (solution) (2) Molality -> mol/kg (solvent) (3) Normality -> & g. equivalent/2 (solution) Mole-fraction -> Xi= Toi ** (5) ppm - Parts pers million (mg/L)

> Very very distritors solution * (--- is the number of --- of a solute in 1 --- of - --- o) O 55th drink mass of dissolved gas, on of P.
(in solvent)

O Limitations: It applies closely to gases with nearly ideal behaviour.

(1) at modurate temperature and pressure (2). The solubility of gas in solvent is 100 (3) The gens does not react with solvent. (4) The gas does not associate or dissociate in solvent. · Temperature effect on solubility of gas in liquid: exo exo Gras Ligarial Fendo To. L Exothermic. Le-chateliers. reant Hoff inotherm equation, $\frac{d}{dT}\ln S = \frac{\Delta H}{RT^2} \quad | \text{Here, } S = \Delta H = \Delta$ Ins=- SH + constant - (1) As gens-ligned system is exotheron So its 14 will be negative. Thus equation (1) becomes-1 Constant O