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the two fundamental processes that must occur whenever a solute dissolves in a solvent and discuss the effects of the absorption or release of energy on the extent of these processes

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a solution is a homogeneous mixture consisting of two or more components in which the composition can be continuously varied within some range with no change of phase solutions can be gases liquids or solids

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6 the solution of thermodynamic problems

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the solution procedure is thus select the derivative or variable to be computed select the potential representation that makes it easiest or corresponds to variables you already have in hand manipulate the thermodynamic derivative you know to get the one you want easy as 1 2 3 we now turn to two methods to manipulate the thermodynamic

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we denote the molar property of a solution as y_m y_n e g molar volume of a solution v_m v_n molar gibbs energy of a solution g_m g_n etc where n is the total number of moles of all components

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