

Thenmodynamics

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🙀 Change in inential Energy 🛕 🗸 🗸 =
                                                         (first law of then modynamics)
  Work
                                              Wnev = - 2.303 mRT log VI
of Free Exponsion DU - q - Pex DV
                                               P . Extennal fonce
🕏 Enthalpy AH = AU + AngRT
Heat Capacity Q = CAT C = Heat capacity
Molan Heat Capacity Cm = C
                                                        " Heat capacity at constant Pressure
Relation between Cp and Cv Cp - Cv = R
🙎 Enthalpy Change
    An H = (sum of Enthalpies of products) - (sum of Enthalpies of neactants)
    ΔnH = Σai H product - Σbi H Recetants
or Relationship between standard Enthalpy to bond Enthalpy
    Dn H = E Bond Enthalpy neactons - E Bond Enthalpy products
\stackrel{\bullet}{\text{M}} Enthalpy of Solution \triangle sol H^{\Theta} = \triangle lattice H^{\Theta} + \triangle hyd H^{\Theta}
Enthopy change for nevensable process \Delta S = \frac{9 \text{ nev}}{}
Total Entropy Change \( \Delta Stotal = \Delta S system + \Delta S surn > 0
of Gibbs function of - H - TS
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Gibbs Energy Dn G = - RTLnK OR Dn G = - 2303 RTlogK