Applications of Nernst Equation

The Nernst equation can be used to calculate the following:

- * single electrode reduction or oxidation potential at any conditions.
- * Standard electrode potential
- * comparing the relative ability as a reductive or oxidative agent.
- * Finding the feasibility of combining such single electrodes to produce an electric potential
- * Emf of an electrochemical cell.
- * Unknown ion concentrations.
- * The ptt of solutions and solubility of sparingly Soluble salts can be measured with the help of the Nernst equation.

Applications of Gibbs-Helmholtz equation

The Gibbs-Helmholtz equation has the following applications.

- * From a given value of Gibbs free energy at constant pressure, it can be used to calculate the overall enthalpy of a reaction and its variation with temperature.
- * It can be used to calculate the Gibbs Free energy of a process that takes place at temperature other than 298k.
- * It can be used to calculate the influence of temperature changes on the equilibrium constant.
- * It can be used to assess a reactions
 spontaneity.

the Namet equation.