

Answer on Question #63053 - Chemistry - Inorganic Chemistry

Question

discuss the type of mathematical relationship that appears exist between concentration and conductivity

Answer:

The electrical conductivity of aqueous solutions is governed by the presence and concentration of ions in solution. Therefore, pure water does not conduct an electrical current well since the concentrations of hydrogen and hydroxide ions are very small. Solutes whose solutions are conductive are called electrolytes -- a solute is considered a strong electrolyte if it dissociates completely into its constituent ions.

Strong electrolytes: ionic compounds like NaCl and KI
compounds with highly polar covalent bonds like HCl in water

Thus, if concentration was higher, that means more ions are present per liter of water and more ions = more conductivity.

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