



Short Communication

Conductometric Studies of Salt Treated Sugar

**Om Kumari*, Vikesh Kumar, Anju Devi, Shweta Singh, Sandhya,
Sandip Kumar Yadav and Ritesh Shukla**

*Department of Chemistry, K K P G College, Etawah 206001 **INDIA**

Email: vikeshitrc@yahoo.co.in

Accepted on 17th July 2015

ABSTRACT

The electrical conductivity behavior of hygroscopic salts deposits containing Ca^{++} , Mg^{++} , K^+ , Na^+ , ion was measured in sucrose solution to find preferential solvation in the sugar water solution. This behavior is explained in term of the solute - solvent interaction involved in electrolyte – solvent – non electrolyte solvents systems and their complex forming nature with sucrose molecule, and the hydrogen bonding capabilities of sucrose and the solvent water. It is evident that both ion solvents and electrolytes are predominant in these systems and the hydration of ion and the bonding tendency of sucrose and water play an important role. In view of the fact that above salts are routinely used in sugar industry as well as food additive.

Keywords: Electrical conductivity; Sucrose solution; hygroscopic salts, Food additive.
