

Polyelectrolyte solutions. Electrical conductivity and counterion condensation

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We have analyzed the electrical conductivity of a linear high charge density polyelectrolyte aqueous solution, finding that the counterion association order follows the same pattern as that described for a cyclic monomeric polyelectrolyte, i.e. $\text{NO}_3^- > \text{Br}^- > \text{Cl}^- > \text{F}^-$. However, these counterions interact in a very different manner with this polyion, making Eisenberg's relationship inapplicable in this system. Consequently, an alternative method is proposed for treating data. Copyright © 1993

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