Viscosity of electrolyte solutions

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The **viscosity** of a **dilute** solution of an electrolyte, measured under certain prescribed conditions, is an indication of the **ion-ion** and **ion-solvent interaction**, where the **relative viscosity** follows a second polynomial degree polynomial on the square root of concentration of the electrolyte solvated in a given solvent (**Jones-Dole** equation: $\eta_{rel}=1+Ac^{1/2}+Bc$). the A-coefficient takes into account the **ion-ion** (or solute-solute) **long range interaction** and can be theoretically evaluated using the ionic interaction theory (Falkenhagen et al.). The B-coefficient can be an indication of the **ion-solvent** (or solute-solvent) interactions.