

$$R = \frac{2.801 \times 10^6 |z_1 z_2| q}{(\epsilon T)^{3/2} (1 + \sqrt{q})}$$

$\delta$  = 14.28, Bjerrum critical distance in Ångstroms for a 2:2 electrolyte in water at 25°. This varies as a function of pressure

$c$  = concentration in moles/l.

$m$  = concentration in moles of solute/kg. of solvent

$q = 1/2$  for symmetrical electrolytes,  $z_1 = z_2$ ;  $z_1 = z_2 = 2$  for  $\text{MgSO}_4$

$I = 4c\alpha$ , ionic strength of 2-2 salt

$T$  = absolute temperature

$\alpha$  = degree of dissociation

$\epsilon$  = dielectric constant

$\eta$  = viscosity

$\rho_r$  = relative density of water