

4th International Conference on **Nanotek & Expo**

December 01-03, 2014 DoubleTree by Hilton Hotel San Francisco Airport, USA

Nano barium diphenylamine sulfonate association constant, triple ion association constant and thermodynamic parameters

Elsayed T Helmy
Mansoura University, Egypt

In this paper, the interaction of nano barium diphenylamine sulfonate with methanol and water has been studied by using conductance properties. Limiting molar conductivity (Λ_0), association constant (KA), Walden product ($\Lambda_0 \eta_0$), fluidity ratio (R_x), Fuoss- Shedlovsky parameters (S, Z and S(z)), activity coefficient (γ_{\pm}), association constant (KA), dissociation constant (KD), degree of dissociation (α), triple ion association constant (K3), thermodynamic parameters, activation free energies and its related thermodynamic parameters were calculated from conductance measurements at different temperatures from (293.15 K–308.15 K). The values of (Λ_0) increases with increasing temperatures, the values of (KA) increase with increasing temperatures. All values are discussed.

stalaat41@yahoo.com