

不同温度下脯氨酸在非水阴离子、阳离子及非离子型表面活性剂中的相互作用

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摘要:

Density and viscosity data of proline (Pro) in sodium dodecyl sulfate/cetyltrimethylammonium bromide/poly (oxyethylene) isooctyl phenyl ether in formamide were measured at 298.15, 303.15, 308.15, and 313.15 K and 0.1 MPa. The density data were utilized to evaluate standard partial molar volumes (ϕ_0^V) and partial molar isobaric expansibility (ϕ_0^E). The viscosity data were used to evaluate A- and B-coefficients, free energy of activation of viscous flow ($\Delta\mu_0^*$) and ($\Delta\mu_0^{*2}$), per mole of solvent and solute respectively, enthalpy (ΔH^*) and entropy (ΔS^*) utilized in the qualitative elucidation of the Pro-surfactant/formamide and Pro-Pro interactions in the present systems.

关键词: Partial molar volume Viscosity coefficient Interaction

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