Scaling behavior of single chain dimension of polystyrene sulfonate

Scaling behavior of single chain dimension of polystyrene sulfonate (PSS-) has been studied by fluorescence correlation spectroscopy. The scaling power index of the hydrodynamic radius of the PSS- single chain in aqueous solutions was found to depend on the salt condition in the solution and a systematic investigation on salt concentration and salt valency has been conducted. The results clearly demonstrate the change in conformation of PSS- chain due to its interaction with the counterions.

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