Equilibrium Analysis of Acid Dissociation Reactions of Phenolphthalein by Using Mobility Change in Capillary Zone Electrophoresis

Equilibrium analysis of acid dissociation reaction by capillary zone electrophoresis was applied to phenolphthalein, which is unstable in an alkaline aqueous solution. A non-linear least-squares analysis for the mobility change provided its acid dissociation constants ($pK_a$) of 8.84 and 9.40.

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