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Potentiometric pKa determination of biological active phenothiazine in different aqua-organic solvents

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Abstract : Potentiometric titrations of phenothiazines derivatives were performed in methanol-water, ethanol-water, acetonitrile-water and dioxane-water mixtures with varying contents of organic solvent. All titrations were performed in aqua-organic medium at constant ionic strength ($0.15 \text{ mol}\cdot\text{dm}^{-3}$) and at different temperatures (25 to 45 °C). The pKa were determined at different aqua-organic proportions. Effect of temperature and dielectric constant on dissociation constant has been compared. The pKa values were then obtained by Yasuda-Shedlovsky extrapolation.

Keywords : Aqua-organic, pka, Potentiometry, Phenothiazine.

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