



Effect of Cationic Surfactant (Cetyl Pyridinium Chloride) on the Solute Adsorption onto Cellulose acetate phthalate Surface in Brine Solution

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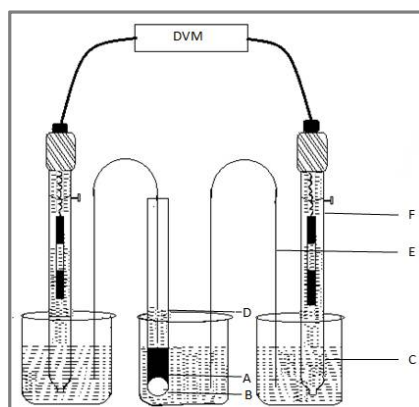
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ABSTRACT

The effect of interaction of cationic surfactant (CPC=cetyl pyridinium chloride) on cellulose acetate phthalate (CAP) membrane has been investigated. The conductivity of membrane system with and without surfactant is studied. Structural properties of surfactant based membrane were characterized in terms of water-content, conductivity, membrane potential by investigating permeation and separation performance of Membrane-aqueous electrolyte system. Solute adsorption on the membrane interface in the presence of CPC is responded by the system and adsorption estimation has been carried out.

Graphical Abstract



Schematic presentation of membrane system for membrane potential data acquisition

Keywords: Cetyl pyridinium chloride, Cellulose acetate phthalate, Surfactant, Membrane potential.