

以非离子型表面活性剂组成的W/O型微乳液的渗滤现象

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摘要 通过电导现象研究以非离子型表面活性剂AEO-9、正己醇、煤油和水所组成的W/O型微乳液的微观结构。从渗滤作用来比较EMT、EMTDD和BW三种理论,发现在水油比较低的情况下,本体系统符合EMT理论。这表明微乳液在电场下是独立球体,不随电解质浓度和性质而变。还从研究不同温度下的电导而求得活化能,发现为负值,从中讨论了离子跃迁规律。

关键词 [非离子表面活性剂](#) [活化能](#) [电导](#) [煤油](#) [微观结构](#) [微乳液](#) [正己醇](#) [渗滤作用](#)

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The percolation of microemulsion with nonionic surfactant

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Abstract The W/O type of microemulsion composed of nonionic surfactant AEO-9, hexanol, kerosene and water has been studied by means of electric conductivity. By percolation is made the comparison between EMT, EMTDD and BW theories so as to find that under the condition of low water/oil ratio the work system in this paper is in conformity with the EMT theory. This indicates that microstructure in the electric field is of separate sphere and unchangeable if the concentrations and characteristics of electrolyte are different. And the electric conductivity of various temperature has been investigated, so that the activity energy is known as minus value with electric ion low dealt with.

Key words [NON IONIC SURFACTANTS](#) [ACTIVATION ENERGY](#) [ELECTRIC CONDUCTANCE](#) [KEROSENE](#) [MICRO-STRUCTURE](#) [MICROEMULSION](#) [N-HEXYL ALCOHOL \(=1-HEXANOL\)](#)

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