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聚醚型非离子表面活性剂的混合表面膜 **II:**
环氧乙烷环氧丙烷共聚物与异辛基苯酚聚氧乙烯加成物和聚丙二醇的混合膜

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摘要 本文进一步测定了环氧乙烷环氧丙烷共聚物与异辛基苯酚聚氧乙烯加成物和聚丙二醇等分子混合物在40%NaNO3水溶液表面所成膜的表面压(π)-分子面积(a)关系.
结果表明组成混合膜的两种组份可能形成了完全混溶的二维溶液.

关键词 苯酚 共聚物 聚氧化乙烯 甲基环氧乙烷 薄膜 高聚物 聚醚 辛烷 P 非离子表面活性剂 环氧乙烷 丙二醇

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Mixed monolayers of polyether-type nonionic surfactants II: Binary mixtures of polyoxyethylene-polyoxypropylene polyols, polyoxyethylated iso-octylphenols and polypropylene glycol

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Abstract The surface pressure (p) vs. area isotherms (a) of polyoxyethylated isooctylphenols (Triton X 100 and Triton X 305), polyoxyethylene-polyoxypropylene polyols (L61 and F68), and polypropylene glycol and their binary mixtures on the surface of 40% NaNO3 aqueous solution were determine at 20? The experimental p-a curves of mixed monolayers indicated some different kinds of deviations from calculated average curves based on simple additivity. The results were interpreted in terms of the thermal motions of hydrocarbon chains and of polyoxypropylene chains if they had been squeezed out of the water surface, and a model which permitted the polyoxyethylene chain to partly lie in the interface and partly penetrate the water phase. The anal. of the compression curves of the mixed monolayers suggested that the 2 components were miscible with each other and formed 2-dimensional solns. not far from ideal.

Key words PHENOL COPOLYMERS POLYETHYLENE OXIDE METHYLOXIRANE THIN FILMS HIGHPOLYMER POLYETHER OCTANE P NON IONIC SURFACTANTS ETHYLENE OXIDE PROPANEDIOL

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