

New approaches to aqueous polymer systems: Theory, thermodynamics and applications to biomolecular separations

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Abstract – A summary is presented of the main qualitative features of aqueous two-phase systems. Some aspects of the application of such systems to biomolecular separation are discussed. A brief description of a recent theoretical approach to aqueous two-phase systems based on statistical geometrical concepts is considered and some links are made to measurable thermodynamic properties.

Some polymer-polymer pairs or polymer-inorganic salt pairs, when in a "good" solvent, can form two immiscible homogeneous liquid phases.^{1,2} If the solvent is water, we call the systems formed "aqueous two-phase systems." Fig. 1 illustrates these two types of aqueous two-phase systems with typical compositions.

Examples of other pairs of polymers which form aqueous two-phase systems include: Dextran + Ficoll, and polyethylene glycol + Ficoll, polyvinylalcohol.* Other examples of polymer + salt aqueous two-phase systems are (see also ref. 2 and 3): methoxypolyethylene glycol + potassium phosphate, polyvinylpyrrolidone + potassium phosphate, polyethylene glycol + sodium sulphate, polyethylene glycol + sodium carbonate and polyethylene glycol + sodium chloride.

Special types of aqueous two-phase systems are those containing polyoxyethylene detergents.⁴ The formation of these systems arises from the inverse temperature/solubility behaviour of non-ionic detergents carrying polyoxyethylene groups as the hydrophilic moiety. On raising the temperature above room temperature phase separation occurs. In the two resulting phases, one is a detergent rich coacervated phase and the other is the water rich depleted phase. Terstappen *et al.*⁵ have systematically and quantitatively studied protein partitioning in

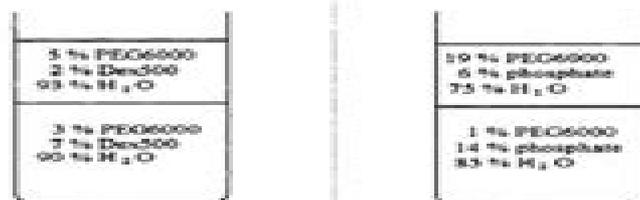


Figure 1 An illustration of the typical phase compositions of PEG 6000+Dex500 and PEG 6000+phosphate aqueous two-phase systems. The concentrations shown are based on weight.

* Usually polyethylene glycol (PEG) is a linear polymer and has the structural unit $-(CH_2CH_2O)-$. Methoxypolyethylene glycol has one end of the PEG molecule methoxylated. Dextran is composed predominantly by poly(α -1,6-glucose), Ficoll is a nonionic synthetic polymer of sucrose, polyvinyl alcohol has the structural unit $-(CH_2CHOH)-$.

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Collins, Donald C. Reynolds, 2011-03-23 Zinc Oxide ZnO powder has been widely used as a white paint pigment and industrial processing chemical for nearly 150 years. However, following a rediscovery of ZnO and its potential applications in the 1950s, science and industry alike began to realize that ZnO had many interesting novel properties that were worthy of further investigation. ZnO is a leading candidate for the next generation of electronics, and its biocompatibility makes it viable for medical devices. This book covers recent advances, including crystal growth, processing, and doping, and also discusses the problems and issues that seem to be impeding the commercialization of devices. Topics include energy band structure and spintronics, fundamental optical and electronic properties, electronic contacts of ZnO, growth of ZnO crystals and substrates, ultraviolet photodetectors, ZnO quantum wells, and zinc oxide materials for electronic and optoelectronic device applications. This book is ideal for university, government, and industrial research and development laboratories, particularly those engaged in ZnO and related materials research. **Chemical Engineering Progress**, 2002 **Chemical Engineering in the**

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