

The application of cloud point extraction in environmental analysis

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Abstrak

The extraction method is cloud point extraction technique by phase separation which gives a convenient, a simple procedure, with minimal solvent usage and only needs a very discrete amount of relatively non-flammable and non-volatile surfactant which is ecofriendly. It has acknowledged usage for the extraction and preconcentration of species of extensively digress character and features likewise metal ions, proteins and other biomaterials, or organic compounds of strongly differing polarity. Here, we address the review about cloud point extraction (CPE) method as well as applications with this methodology to our environmental samples. We also discussed about the advantages, disadvantages and future trends of CPE. This technique received great attention in extraction and preconcentration by application as an isolation and trace enrichment procedure earlier to the analysis of organic compounds (polycyclic aromatic hydrocarbons, polychlorinated compounds, pesticides, phenolic derivatives, aromatic amines, vitamins and polybrominated biphenyl ethers), inorganic compounds and metal (copper, chromium, zinc, cadmium, nickel, cobalt), phthalates and parabens. These techniques are coupled with gas chromatography, liquid chromatography, capillary electrophoresis and spectrophotometry.