

## Immobilization of organic reagents on optically transparent mesoporous polymers and its analytical use

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### Abstract

© 2015 Pleiades Publishing, Ltd. Sorption of organic reagents Arsenazo III and 1-(2-pyridylaz-)-2-naphthol onto optically transparent mesoporous polymers prepared from macroinitiators and toluene 2,4-diisocyanate was studied. The possibility of preconcentration of organic reagents and their complexation with Cu(II) and Ca(II) ions in the polymer pore voids was demonstrated. Experiments on spectrophotometric analysis using the polymeric support showed that the lower limit of determination was 20  $\mu\text{g mL}^{-1}$  for Ca(II) and 2  $\mu\text{g mL}^{-1}$  for Cu(II).

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