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# Cloud point extraction for simultaneous determination of 12 phenolic compounds by high performance liquid chromatography with fluorescence detection

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## Abstract

A sensitive method based on cloud point extraction was developed for the separation and preconcentration of 12 phenolic compounds (hydroquinone, resorcinol, catechol, phenol,  $\beta$ -naphthol, bisphenol A,  $\alpha$ -naphthol, 4-*tert*-butylphenol, 4-*tert*-octylphenol, nonylphenol, octylphenol, and 4-*n*-nonylphenol) from environmental water samples for subsequent analysis by high performance liquid chromatography. The nonionic surfactant Tergitol 15-S-7 was chosen as the extractant. The analytes were detected using a fluorescence detector. Gradient elution was performed with a mobile phase mixture of acetonitrile and water at a flow rate of 1.0 mL min<sup>-1</sup>. Various experimental parameters affecting the analytical performance were optimized in detail.

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