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摘要：建立一种新的荧光光度法分析水中痕量酚。水中的酚经紫外光照射后，激发强荧光($\lambda_{ex}=273\text{nm}$, $\lambda_{em}=302\text{nm}$)能直接进行荧光光度测定。检出限 $0.03\mu\text{g}\cdot\text{L}^{-1}$ ，相对标准偏差 0.29% ，回收率 $97.5\%\sim 102.5\%$ 。方法简单、快速、精密度和准确度高、无毒、安全。

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[Direct spectrofluorimetric determination of trace amounts of phenol in water](#)

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Abstract: A new spectrofluorimetric determination of trace phenol in water was proposed in this paper. Phenol emit fluorescence under the irradiation of ultraviolet light. The excitation and emission wavelenths of phenol are 273nm and 302nm respectively. On this basis phenol can be detected directly by spectrofluorimetry. The detection limit is $0.03\mu\text{g}\cdot\text{L}^{-1}$, the relative standard deviation is 0.29% ($n=11$) and the recovery is $97.5\%-102.5\%$. The method is simple, rapid, precise and accurate.

Key words:

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