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SPECTROMETRY

Spectrophotometric Determination of Some Quinones

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Abstract

A simple, sensitive and selective spectrophotometric method has been developed for determination of p-benzoquinone, tetrachloro-p-benzo-quinone, 1,4-naphthaquinone and menadione (vitamin K₃). The method is based on reaction of these quinones with excess piperidine in ethylalcohol. The colored products obtained display a maximum absorption at $\delta = 370-510$ nm, depending upon the type of quinone used, $E^{1\%}_{1\text{ cm}}$ in the range 72-870. The effects of time, temperature and concentration on the nature of the reaction products have been investigated. The results obtained with an average recovery of 93.75%.

Q Key Words: quinones piperidine



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