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Spectrophotometric Determination of Some Aromatic Aldehydes

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Abstract

A spectrophotometric quantitative determination method of aromatic aldehydes via interaction with diphenylamine in the presence of 5N hydrochloric acid was developed. The colored products obtained display maximum absorption at $\lambda = 590\text{-}640\text{ nm}$, $E_{\text{cm}}^{1\%}$ in the range 50-410, and a concentration range of 5-75 $\mu\text{g/ml}$. The effects of time, concentration and temperature on the nature of reaction products were investigated. Various other organic compounds do not interfere.

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