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# Kinetics and determination of sulfa drugs via interaction with *p*-benzoquinone

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## Abstract

Eight sulfa drugs have been determined by applying a spectrophotometric method involving the interaction with excess *p*-benzoquinone, which was previously used successfully in the determination of aromatic amines. The colored products obtained display maximum absorption at  $\lambda$  490–500 nm, depending upon the type of sulfa drug used, and  $E^{1\%}_{1\text{ cm}}$  in the range 100–280. The reaction proceeded kinetically as a pseudo-first-order reaction. The activation parameters have been calculated and a relevant reaction mechanism has been suggested.

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