

## **Selective Determination of Platinum and Palladium in Iodide Media by Derivative Spectrophotometry**

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The behaviour of platinum and palladium in iodide solutions in the presence of a reducing agent (ascorbic acid) has been examined. Optimum conditions for the formation of the stable  $\text{PtI}_4^{2-}$  complex were established. Derivative spectrophotometric methods allowing selective determination of both metals in their mixtures were developed. The methods are based on the calculation of the first- and the second-order-derivative spectra for palladium and platinum, respectively. The application of the methods to the determination of platinum (5.1%) and palladium (20.4%) in a silver alloy was described.