Extraction polarography and its analytical applications

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Abstract

The review is devoted to extraction polarography as a method for the determination of microelements. The possibilities of polarography in combination with a preliminary chemical separation of the elements by extraction are discussed. The types of extraction-polarographic systems known at present are described. It is shown that the selectivity of extraction separations increases if the reagents form complexes with the ions to be determined, which are manifested by effects on the polarisation curves at different potentials. The influence of extracting and ionising solvents on the analytical signal is examined from the standpoint of modern ideas of the chemistry of coordination compounds in non-aqueous media. Examples of the use of extraction polarography for the determination of microelements are presented. © 1980 IOP Publishing Ltd.

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