

Application of differential electrolytic potentiometry for detection in flow injection analysis. Abdennabi, A. M. S.; Koken, M. E.; Khaled, M. M. Department of Chemistry, King Fahd University of Petroleum and Minerals, Dhahran, Saudi Arabia. *Analytica Chimica Acta* (1998), 360(1-3), 195-201. Publisher: Elsevier Science B.V., CODEN: ACACAM ISSN: 0003-2670. Journal written in English. CAN 128:208676 AN 1998:185510 CAPLUS (Copyright (C) 2008 ACS on SciFinder (R))

Abstract

The applicability of differential electrolytic potentiometry as a detection system in flow injection anal. is studied. A computer-controlled injector which delivers precise vols. of sample solns. in a reproducible manner was developed. Conditions such as c.d., concns. of the solns., and the flow rate were optimized. Chloride in water was detd. by this system. The relation between chloride concn. and the measured signal was Nernstian for concns. $>6 \mu\text{g Cl-}/\text{mL}$. For solns. below this concn., the relation is linear.