Ukrainskij Khimicheskij Zhurnal 2005 vol.71 N9-10, pages 45-50

Coulometry in antioxidant analysis

Ziyatdinova G., Budnikov G. Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia

Abstract

Methods for coulometric determination of individual antioxidants in model solutions, pharmaceuticals, and human biological fluids using electrogenerated halogens as titrants are proposed. The RSD of determination are 0.01-0.09. Stoichiometric coefficients of the antioxidants reaction with electrogenerated halogens are established and possible mechanisms of this interactions are discussed.