

Use of galvanostatic coulometry for determining nitroxoline

Shlyamina O., Ziyatdinova G., Abdullina S., Budnikov G.
Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia

Abstract

It was found that nitroxoline rapidly and quantitatively reacts with electrogenerated chlorine or bromine. The stoichiometric coefficients of these reactions are 1: 1.5 and 1: 1, respectively. The mechanism of the reaction of nitroxoline with electrogenerated bromine was proposed. A procedure was developed for the quantitative determination of nitroxoline in the substance and pharmaceuticals with a relative standard deviation of 1-3%. © 2007 Pleiades Publishing, Ltd.

<http://dx.doi.org/10.1134/S1061934807100103>
