Dimerization and Adsorption at the Dropping Mercury Electrode | Garson H. Tishkoff | Technical Information Division, Oak Ridge Operations, 1947 | 1947

Key words: Adsorption, Azithromycin, Cyclic Voltammetry, Mercury Drop Electrode. Introduction. Macrolide antibiotics are currently gaining prominence in view of their activity in the treatment of various bacterial infections in humans and animals.Â The reactant and the product may adsorb at the mercury surface and exists in equilibrium with its corresponding dissolved species as illustrated in the equations 1-a, 1-b, and 1-c. Oso ln â‡” Oads. (1-a). This book is sold subject to the condition that it shall not, by way of trade or otherwise, be lent, re-sold, hired out, or otherwise circulated without the publisher's prior consent in any form of binding or cover other than that in which it is published and without a similar. condition including this condition being imposed on the subsequent purchaser.Â 8.3 A special electrode: the dropping mercury electrode . . 157. 8.4 Hydrodynamic electrodes in the study of electrode.Â If the oxidized and reduced species involved in an electrode reaction are in equilibrium at the electrode surface, the Nernst equation can be applied. The electrode reaction is then known as a reversible reaction since it obeys the condition of thermodynamic reversibility. Rotating Ring-Disk Electrodes. IV. Dimerization and Second Order ECE Reactions. VincentJ.Â I. Dimerization EC (electrochemical-chemical)-Species B, which is generated at the disk electrode by. A +nle--, B. [1].Â Since RRDE studies i n v o l v i n g steady-state NK m e a -surements are relatively free from adsorption and double layer charging effects, the experimental results will be subject to fewer complications than transient methods. Digital simulation methods are capable of treating rather complex reaction schemes involving higher order chemical reactions.Â All potentials are referred to the SCE at 25~ The dropping mercury electrode had normal m and t values. Ultraviolet absorption spectra were recorded on a P e r k i n E l m e r - H i t a c h i Model 124 spectrophotometer. An accurate mercury electrode drop-time measuring instrument based on a piezoelectric transducer. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry 1984,179 (1-2) , 99-106. https://doi.org/10.1016/S0022-0728(84)80279-X. Pamela J. Peerce, Fred C. Anson. An electrochemical study of the adsorption of two isomeric chromium(III) complexes on mercury electrodes: Thioether as an anchoring group. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry 1979,105 (2) , 317-328. https://doi.org/10.1016/S0022-0728(79)80125-4. Loading