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CATALYTIC CURRENTS IN DITHIOPHOSPHATE-IODIDE SYSTEMS.

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Abstract

The authors investigated the electrochemical oxidation of iodide ions in the presence of a series of dithiophosphates (RO)//2PSS** minus at a glassy carbon electrode (R equals CH//3, C//2H//5, n-C//3H//7, n-C//4H//9, iso-C//4H//9, and sec-C//4H//9). By the method of 'electrochemical oxidation in an adsorbed layer' the authors showed that absence of a significant effect of adsorption on the electrode process. The anodic curves of electrode charging in the solution of the supporting electrolyte both in the absence of and after contact with a 0. 0016 M solution of DTP had a similar shape.