

Electrochemical study on azulene-1-yl-methylene-2,2-dimethyl-[1,3]dioxane-4,6-diones

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Abstract An electrochemical study of several azulene-1-yl-methylene-2,2-dimethyl-[1,3]dioxane-4,6-diones compounds was performed by cyclic and differential pulse voltammetry in order to characterize them and establish the influence of donor and acceptor substituents on their electrochemical properties. It was established the number and characteristics of the redox processes for each compound. The comparison of the electrochemical parameters was connected with the difference between the functional groups grafted on the azulene moiety.

Keywords: methyl-3-benzoyl indolizine carboxylates, cyclic voltammetry, differential pulse voltammetry.
