Note

Electrochemical characterization of Biodiesel by linear voltammetry and electrochemical impedance spectroscopy

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Biodiesel from different sources were synthesized according to transesterification method. Actually, there are different methods to characterize these fuels, but majority are physicochemical techniques, some of them, like water content by Karl-Fischer method are really complex. Because electrochemical techniques offer fast and accurate results, an electrochemical cell was designed and built to measure these biodiesels, in particular electrolytic conductivity, which is an important parameter that characterizes solutions in different fields of research and industry. Biodiesel obtained from castor oil present the lowest electrolytic conductivity from four evaluated.

Keywords: Biodiesel, Electrochemical Characterization, Linear Voltammetry, Electrochemical Impedance Spectroscopy.

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