Kinetic Study of Esterification of Free Fatty Acid in Low Grade Crude Palm Oil using Sulfuric Acid

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The kinetics of the esterification of free fatty acids (FFA) in low grade crude palm oil (CPO) with methanol was studied. In this work, the effects of operational variables involved in the esterification process i.e. alcohol to oil molar ratio, reaction temperature, agitation speed and the initial amount of FFA of oil, were studied in the presence of sulphuric acid as catalyst at concentration of 1%-w. The experimental results show that the esterification process could lead to a practical and cost effective FFA removal unit in front of typical oil transesterification for biodiesel production. The experimental results were found to fit a first-order kinetic law. The influence of temperature on the kinetic constants was determined by fitting the results to the Arrhenius equation.

Keywords: esterification, free fatty acid, kinetics, low grade CPO

INTRODUCTION

Biodiesel, which consists of long-chain fatty acid methyl ethers (FAME) obtained from renewable lipids such as those in vegetable oils or animal fat, can be used both as an alternative fuel and as an additive for petroleum diesel. The prefix "bio" denotes its biological origin and renewable character; by contrast, the better known, non-renewable petroleum diesel is obtained from petroleum distillates. FAME are obtained by reacting triglycerides with lower alcohols such as methanol or ethanol in the presence of a strong base as a catalyst; the reaction yields glycerin as a by-product.

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