#### The Synthesis of Biodiesel from Vegetable Oil

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#### Introduction

The use of reclaimed vegetable oil from restaurants, for use as a fuel for road vehicles, has received a lot of attention in recent years. Used vegetable oils contain solids and free fatty acids due to oil breakdown during the frying process. Normally, the used oil must be filtered and the quantity of the free fatty acids must be determined so that the chemicals necessary for the breaking down of the cooking oil can be calculated.

In this experiment the biodiesel will be made from fresh vegetable oil to avoid the solids and a titration to determine the mass of sodium hydroxide needed to react with the whole oil molecules.

The diesel engine was developed by Rudolf Diesel, a French thermal engineer, in 1893 with the first working prototype in 1897. A diesel engine works by creating heat by compressing air followed by the injection of fuel which burns, increasing pressure to drive the pistons. Early diesel engines were intended to run on peanut oil and were later adapted to run on the lower viscosity and cheaper petroleum diesel. Today, diesel engines are used in cars, buses and trucks. Biodiesel can be used directly in diesel engines or blended with petroleum based diesel fit send.

Vegetable oils are esters of glycerin, commonly called triglycerides, with different fatty acids with the structure:

Where R<sup>I</sup>, R<sup>II</sup>, and R<sup>III</sup> can be the same or different fatty acids. (See Table 1)

The preparation of the biodiesel is a transesterification reaction where the triglycerides are converted into simpler methyl esters of the fatty acids (the biodiesel).

Triglyceride

methanol

fatty acid methyl ester glycerin

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established theoretical framework where the basic aspects are well established but at the same time are under constant development Therefore it is essential for future professionals to develop a strong background in the laboratory as soon as possible forming good habits from the outset and developing the necessary skills to address the challenges of the experimental work This book is divided into three parts In the first safety issues in laboratories are addressed offering tips for keeping laboratory notebooks In the second the material the main basic laboratory procedures preparation of samples for different spectroscopic techniques Microscale Green Chemistry and qualitative organic analysis are described The third part consists of a collection of 84 experiments divided into 5 modules and arranged according to complexity The last two chapters are devoted to the practices at Microscale Synthesis and Green Chemistry seeking alternatives to traditional Organic Chemistry Organizes lab course coverage in a logical and useful way Features a valuable chapter on Green Chemistry Experiments Includes 84 experiments arranged according to increasing complexity **Teaching Chemistry - A Studybook** Ingo Eilks, Avi Hofstein, 2013-04-20 This book focuses on developing and updating prospective and practicing chemistry teachers pedagogical content knowledge The 11 chapters of the book discuss the most essential theories from general and science education and in the second part of each of the chapters apply the theory to examples from the chemistry classroom Key sentences tasks for self assessment and suggestions for further reading are also included The book is focused on many different issues a teacher of chemistry is concerned with The chapters provide contemporary discussions of the chemistry curriculum objectives and assessment motivation learning difficulties linguistic issues practical work student active pedagogies ICT informal learning continuous professional development and teaching chemistry in developing environments This book with contributions from many of the world's top experts in chemistry education is a major publication offering something that has not previously been available Within this single volume chemistry teachers teacher educators and prospective teachers will find information and advice relating to key issues in teaching such as the curriculum assessment and so forth but contextualised in terms of the specifics of teaching and learning of chemistry and drawing upon the extensive research in the field Moreover the book is written in a scholarly style with extensive citations to the literature thus providing an excellent starting point for teachers and research students undertaking scholarly studies in chemistry education whilst at the same time offering insight and practical advice to support the planning of effective chemistry teaching This book should be considered essential reading for those preparing for chemistry teaching and will be an important addition to the libraries of all concerned with chemical education Dr Keith S Taber University of Cambridge Editor Chemistry Education Research and Practice The highly regarded collection of authors in this book fills a critical void by providing an essential resource for teachers of chemistry to enhance pedagogical content knowledge for teaching modern chemistry Through clever orchestration of examples and theory and with carefully framed guiding questions the book equips teachers to act on the relevance of essential chemistry knowledge to navigate such challenges as context motivation to learn thinking activity

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