

Accepted Manuscript

Title: Preparation of waste cooking oil based Biodiesel using microwave irradiation energy

Author: In Kwon Hong Hyeon Jeon Hyungjin Kim Seung Bum Lee



PII: S1226-086X(16)30228-3
DOI: <http://dx.doi.org/doi:10.1016/j.jiec.2016.07.035>
Reference: JIEC 3010

To appear in:

Received date: 23-4-2016
Revised date: 15-7-2016
Accepted date: 23-7-2016

Please cite this article as: In Kwon Hong, Hyeon Jeon, Hyungjin Kim, Seung Bum Lee, Preparation of waste cooking oil based Biodiesel using microwave irradiation energy, Journal of Industrial and Engineering Chemistry <http://dx.doi.org/10.1016/j.jiec.2016.07.035>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Preparation of waste cooking oil based Biodiesel using microwave irradiation energy

In Kwon Hong ^a, Hyeon Jeon ^a, Hyungjin Kim ^b, Seung Bum Lee ^{a,†}

^aDepartment of Chemical Engineering, Dankook University, Yongin 16890, Republic of Korea

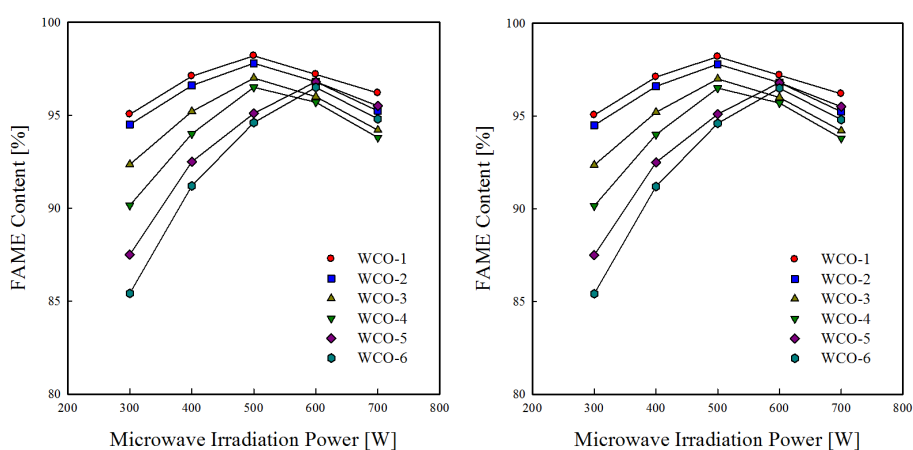
^bDepartment of Health & Environment, Kimpo College, Kimpo 10020, Republic of Korea

[†]To whom all correspondences should be addressed.

(E-mail : leesb@dankook.ac.kr, Tel : 82-31-8005-3559, Fax : 82-31-8005-3536)

Graphical Abstract

The optimal conditions at an AV of 1.25 mg KOH/g were determined as follows: catalyst amount, 1.0 wt%; microwave power, 500 W; molar ratio of methanol/WCO, 8; and reaction time, 6 min.



Download English Version:

<https://daneshyari.com/en/article/6669421>

Download Persian Version:

<https://daneshyari.com/article/6669421>

[Daneshyari.com](https://daneshyari.com)