

Institute of Chemical Engineering

Adres artykułu: <https://iich.gliwice.pl/en/article/investigations-on-the-application-of-enzymes-in-the-synthesis-of-octyl-esters-of-medium-chain-fatty-acids>

Investigations on the application of enzymes in the synthesis of octyl esters of medium-chain fatty acids

Publication date:	27.12.2018
Publication title:	Investigations on the application of enzymes in the synthesis of octyl esters of medium-chain fatty acids
Authors:	Maria Kulawska , Wiesław Orgonek
Journal information:	Prace Naukowe Instytutu Inżynierii Chemicznej Polskiej Akademii Nauk
Tags:	enzymatic catalyst , esterification , medium-chain fatty acids , octyl alcohols

Abstract: Octyl esters of medium-chain fatty acids were synthesized in the presence of commercially available enzyme lipase acrylic resin as catalyst in the range of temperatures 313 K - 333 K, at initial mole substrate ratio (alcohol to acid), b, 1/1, 2.5/1, 3/1, 5/1. The important advantage is relatively low reaction temperature of 323 K. High conversion of acid has been obtained and only small amounts of side products.

Attachments:

[Zeszyt 22 \(2018\)](#) pdf, 4.49 MB

Published by:	Artur Wojdyła
Published at:	31.07.2025 12:53
Last edited by:	Artur Wojdyła
Last edited at:	31.07.2025 12:55
Number of downloads:	157

Tagi: enzymatic catalyst, esterification, medium-chain fatty acids, octyl alcohols

Metryczka

Published by:	Artur Wojdyła
Published at:	05.08.2025 13:18
Last edited by:	Artur Wojdyła
Last edited at:	05.08.2025 13:44
Number of views:	151