

# 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

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<b>Publication title:</b>	<a href="#">Investigations on the application of enzymes in the synthesis of octyl esters of medium-chain fatty acids</a>
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<b>Journal information:</b>	Prace Naukowe Instytutu Inżynierii Chemicznej Polskiej Akademii Nauk
<b>Tags:</b>	<a href="#">enzymatic catalyst</a> , <a href="#">esterification</a> , <a href="#">medium-chain fatty acids</a> , <a href="#">octyl alcohols</a>

**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

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

# Metryczka

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