Institute of Chemical Engineering

Adres artykułu: https://iich.gliwice.pl/en/article/esterification-of-octanoic-acid-with-n-octyl-alcohol-over-enzymatic-catalysts

Esterification of octanoic acid with n-octyl alcohol over enzymatic catalysts

Publication date:	29.12.2016
Publication title:	Esterification of octanoic acid with n-octyl alcohol over enzymatic catalysts
Authors:	Maria Kulawska, Wiesław Organek
Journal information:	Prace Naukowe Instytutu Inżynierii Chemicznej Polskiej Akademii Nauk
Tags:	esterification, n-octyl alcohol, enzymatic catalysts

Abstract: Octyl octanoates were synthesized in the presence of commercially available enzymes NOVOZYM 435 i LIPOZYM Mm as catalysts in the range of concentration 0.313-1.25 of mass. %, at temperature 313-333 K, at initial mole substrate ratio (n-octyl alcohol to octanoic acid) 1/1, 3/1, 5/1. Preliminary experiments showed a possibility of synthesis of esters at relatively low reaction temperature of 323 K compared with the synthesis in the presence of classical chemicals.

Attachments:

Zeszyt-20-2016 pdf, 4.77 MB

Created at:	04.08.2025
Published by:	Artur Wojdyła
Published at:	05.08.2025 08:19
Number of downloads:	269

Tagi: esterification, n-octyl alcohol, enzymatic catalysts

Metryczka

Published by:	Artur Wojdyła
Published at:	18.09.2025 12:57
Number of views:	74