# Institute of Chemical Engineering

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

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| **Authors:** | Maria Kulawska, Wiesław Organek |
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| **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:

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