

Institute of Chemical Engineering

Adres artykułu: <https://iich.gliwice.pl/en/article/modelling-of-the-process-of-air-purification-from-volatile-organic-compounds-the-one-substrate-models>

Modelling of the process of air purification from volatile organic compounds; the one-substrate models

Publication date:	30.12.2019
Publication title:	Modelling of the process of air purification from volatile organic compounds; the one-substrate models
Authors:	Andrzej Burghardt , Mieczysław Jaroszyński , Grażyna Bartelmus , Agnieszka Gąszczak
Journal information:	Prace Naukowe Instytutu Inżynierii Chemicznej Polskiej Akademii Nauk
Tags:	removal of vinyl acetate , trickle-bed bioreactor , modelling

Abstract: The effectiveness of the air bio-purification process from vinyl acetate carried out in a pilot-scale trickle-bed bioreactor (TBB) was investigated in a continuous system for about 115 days. The experimental database, obtained for a wide range of changes in process parameters, was exploited to validate the two one-substrate models. Both proposed models approximated experimental data with a satisfactory accuracy.

Attachments:

[Zeszyt-23-2019](#) pdf, 2.84 MB

Created at:	04.08.2025
Published by:	Artur Wojdyła
Published at:	05.08.2025 11:26
Number of downloads:	177

Tagi: removal of vinyl acetate, trickle-bed bioreactor, modelling

Metryczka

Published by:	Artur Wojdyła
Published at:	05.08.2025 14:12
Number of views:	177