

Epoxidation of technical oleic acid by hydrogen peroxide in the presence of peroxophosphotungstate formed *in situ*

© Dmitriy G. Miloslavskiy,⁺ Elena N. Cherezova, Raisa A. Ahmed'yanova,
and Aleksander G. Liakumovich*

Department of Synthetic Rubber Technology. Kazan National Research Technological University.

K. Marx St., 68. Kazan, 420015. Tatarstan Republic. Russia. Phone: +7 (843) 231-43-91.

E-mail: basding@mail.ru

*Supervising author; ⁺Corresponding author

Keywords: *technical oleic acid, epoxidation, phase-transfer catalysis, peroxophosphotungstate.*

Abstract

Epoxidation of technical oleic acid by hydrogen peroxide under phase-transfer catalysis in the presence of peroxophosphotungstate formed *in situ* was realized. It is shown that no more than two double bonds of linolenic acid in substrate are subjected to epoxidation.