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Study of physico-chemical properties of the azido-containing oligomers and polyurethanes based on them

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Abstract

It has been shown that with the help of IR-spectroscopy you can expressways and with high confidence establish if the synthesis proceeds according to the theoretical assumptions, and if as a result azido-containing oligomers are formed with high content of N_3 groups. It has been shown that azido-containing oligomers are easily identified by the absorption band of the azide group which has the frequency 2100±20 cm^{-1}, chlorine-containing oligomers, the absence of the IR spectra of absorption bands characteristic of the azide groups and the presence of intense absorption bands in the region of 710-730 cm^{-1} (υ_{C-Cl}) and υ = 1240 cm^{-1} (ω_{CH2Cl}).