

The preparation of polytungstenphenylsiloxanes by interaction of polyphenylsiloxane with the tungsten oxide(IV) in the conditions of mechanochemical activation

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Keywords: polytungstenphenylsiloxane, polyphenylsiloxane, mechanochemical activation.

Abstract

The interaction of polyphenylsiloxane with tungsten oxide(VI) in conditions of mechanochemical activation has been studied. The polytungstenphenylsiloxanes have been prepared with the yields from 43.3 to 44.8% with the activation time of five or three minutes, respectively. The relation Si/W (9.2-9.3) has been prepared. The relation differed from initial relation (1.0) and did not depend on time of interaction. The composition of the products of interactions has been studied by methods of elemental analysis, IR-spectroscopy, gel-chromatography, X-ray diffractometry.