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Preparation of polytetrahydrofuran

Abstract

A process for the preparation of polytetrahydrofuran or polytetrahydrofuran monoesters of C_1 - C_{10} monocarboxylic acids by the polymerization of tetrahydrofuran over a heterogeneous catalyst in the presence of one of the telomers water, 1,4-butanediol or polytetrahydrofuran having a molecular weight of from 200 to 700 dalton, or of a C_1 - C_{10} monocarboxylic acid or mixtures of these telomers, wherein the catalyst used is a supported catalyst which contains a catalytically active amount of an oxygen-containing tungsten or molybdenum compound or mixtures of these compounds on an oxidic support material and which has been calcined at from 500 to 1000°C following the application of the precursor compounds of the oxygen-containing molybdenum and/or tungsten compounds to the support material precursor.