

Abstract

Method for Preparing Amino-Terminated Polyether

5 The present invention provides a method for preparing amino-terminated polyether
by catalytic reductive amination of polyether glycol in the presence of hydrogen, at least
one aminating agent, and a catalyst, the Raney nickel catalyst comprises Ni, Al, and
metal M. based on the total weight of the catalyst and calculated by element, the content
of Ni is in a range of 80-95wt%, the content of Al is in a range of 5-20wt%, and the
10 content of metal M is in a range of 0.5-5wt%; and the metal M is one, two, or three
selected from Cr, Fe, Cu, and Zn. In the method according to the present invention,
the Raney nickel catalyst and the aminating agent can be recycled and reused after
treatment; furthermore, the method according to the present invention achieve
advantages of high product selectivity, high conversion of raw material, easy
15 post-treatment, and lower environmental pollution.

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