

Abstract

A process for preparing polyether polyols by reaction of the following starting materials:

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- a) one or more alkylene oxides and, if appropriate, carbon dioxide and also
- b) one or more H-functional starter substances,

in the presence of a catalyst,

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in a reaction unit

having a plurality of parallel layers A, B which are microstructured so that each layer has a multiplicity of channels which are arranged parallel to one another and form a continuous flow path from one side of the plate to the opposite side of this, wherein a distribution device for introduction of the starting materials and the catalyst is provided

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at one end of the channels of the layers A and a collection device for the reaction mixture is provided at the other end of these is proposed.