

ABSTRACT

PROCESS FOR PRODUCING POLYETHER CARBONATE POLYOLS

The present invention relates to a process for producing polyether carbonate polyols comprising the step of reacting alkylene oxide with carbon dioxide in the presence of an H-functional starter compound and double metal cyanide catalyst, characterized in that (α) a subamount of H-functional starter substance and/or suspension medium containing no H-functional groups is initially charged in a reactor in each case together with DMC catalyst, (β) the mixture from step (α) is admixed with a subamount of alkylene oxide at temperatures of 90°C to 150°C and wherein the addition of the alkylene oxide is then interrupted, (γ) alkylene oxide, carbon dioxide and a mixture containing unactivated double metal cyanide catalyst and an H-functional starter compound, wherein the H-functional starter compound is a polyol having a number-average molar mass according to DIN 55672-1 of 550 to 2000 g/mol, is continuously added to the mixture resulting from (β).