Claims

1. A process for preparing polyether carbonate polyols,

(i) wherein one or more alkylene oxide(s) and carbon dioxide are added onto one or more H-functional starter substance(s) in the presence of a double metal cyanide catalyst to obtain a reaction mixture comprising the polyether carbonate polyol,
characterized in that

(ii) at least one component K is added to the obtained reaction mixture comprising the polyether carbonate polyol, wherein component K is selected from at least one compound from the group consisting of phosphoric acid, dibutyl phosphate, triethyl phosphate, phosphonic acid and $(NH_4)_2HPO_4$.

2. The process as claimed in claim 1, wherein the content of volatile constituents in the polyether carbonate polyol from step (i) is reduced by thermal means at a temperature of 80°C to 200°C prior to step (ii).

3. The process as claimed in either of claims 1 and 2, wherein

(iii) the content of volatile constituents in the reaction mixture from step (ii) is reduced by thermal means at a temperature of 80°C to 200°C.

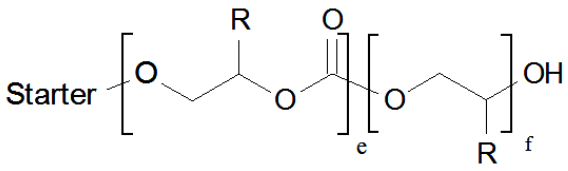
4. The process as claimed in claim 3, wherein

(iv) at least one component K is added to the reaction mixture comprising the polyether carbonate polyol from step (iii).

5. The process as claimed in claim 4, wherein in step (iv) component K is added in an amount of from 20 ppm to 1000 ppm.

6. The process as claimed in any of claims 1 to 5, wherein in step (ii) component K is added in an amount of from 20 ppm to 1000 ppm.

7. The process as claimed in any of claims 1 to 6, wherein the polyether carbonate polyol according to formula (Ia) has an e/f ratio of 2: 1 to 1: 20.



(Ia)

8. A process for preparing polyether carbonate polyols,

(i) wherein one or more alkylene oxide(s) and carbon dioxide are added onto one or more H-functional starter substance(s) in the presence of a metal complex catalyst based on the metals zinc and/or cobalt to obtain a reaction mixture comprising the polyether carbonate polyol,

characterized in that

(ii) at least one component K is added to the obtained reaction mixture comprising the polyether carbonate polyol, wherein component K is selected from at least one compound from the group consisting of phosphoric acid, dibutyl phosphate, triethyl phosphate, phosphonic acid and $(NH_4)_2HPO_4$.

9. A mixture comprising polyether carbonate polyol and component K, wherein component K is selected from at least one compound from the group consisting of phosphoric acid, dibutyl phosphate, triethyl phosphate, phosphonic acid and $(NH_4)_2HPO_4$.

10. The mixture as claimed in claim 9, wherein the mixture comprises polyether carbonate polyol and component K in a weight ratio of 200 000: 1 to 1000: 1.

11. The mixture as claimed in claim 9, wherein the mixture comprises polyether carbonate polyol and component K in a weight ratio of 50 000: 1 to 1000: 1.