

CLAIMS

1. Method for preparing C-H acidic (meth)acrylates of formula (I)
- $$\text{CH}_2=\text{CR}^1-\text{CO}-\text{NH}-\text{R}^2-\text{NH}-\text{CO}-\text{CH}_2-\text{CN} \quad (\text{I})$$
- 5 (P)
- wherein
- R¹: H or methyl
- R²: C_nH_mO_xN_y
- where
- 10 n= 2-15
- m= 4-30
- x= 0-4 and
- y= 0-4
- characterized in that
- 15 a) an ester of cyanoacetic acid (A) is reacted with a diamine (B) in excess,
- b) unreacted diamine (B) is removed from the reaction solution,
- c) the intermediate product (IP) obtained in b), an amino-functionalized cyanoacetamide,
- c1) is reacted with (meth)acrylic acid esters (MAD), or
- 20 c2) is reacted with (meth)acrylic anhydride (MAD) or (meth)acryloyl halide (MAD),
- d) the product (P) obtained in c) is optionally isolated by means of extraction or crystallization.
2. Method according to Claim 1, characterized in that the esters of cyanoacetic acid are
- 25 selected from the group of methyl cyanoacetate and ethyl cyanoacetate.
3. Method according to Claim 1, characterized in that the diamines are selected from the group of aliphatic, linear or branched or cyclic substituted and unsubstituted diamines and aromatic (ortho, meta or para) substituted diamines.
- 30 4. Method according to Claim 1, characterized in that the excess of the diamines to the esters of cyanoacetic acid is between 10:1 and 1.001:1.

5. Method according to Claim 1, characterized in that the unreacted diamine in step b) is removed by means of distillation, extraction or crystallization.
- 5 6. Method according to Claim 1, characterized in that the reaction of the intermediate product in c1) is carried out with esters selected from the group of methyl (meth)acrylate, ethyl (meth)acrylate, butyl (meth)acrylate, ethyl acrylate, butyl acrylate and also higher alcohols of (meth)acrylate.
- 10 7. Method according to Claim 1, characterized in that the intermediate product in c2) is reacted with alkyl acid halides selected from the group of (meth)acryloyl bromides and (meth)acryloyl chlorides.
- 15 8. Method according to Claim 1, characterized in that the intermediate product in c2) is reacted with (meth)acrylic anhydrides selected from the group of methacrylic anhydride and acrylic anhydride.
- 20 9. Method according to Claim 1, characterized in that the reaction of an ester of cyanoacetic acid with a diamine takes place at temperatures between -20°C and 140°C, preferably between 0°C and 30°C.
10. Method according to Claim 1, characterized in that the ratio of alkyl acid esters to intermediate product in c1) is between 1.01:1 and 20:1.
- 25 11. Method according to Claim 1, characterized in that the ratio of alkyl acid anhydride or alkyl acid halide to intermediate product in c2) is between 0.2:1 and 5:1.