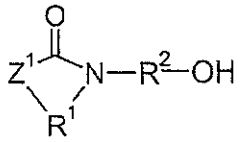
Claims:

1. A process for preparing (meth)acrylates of N-hydroxyalkylated amides, in which cyclic N-hydroxyalkylated amides (C)



where

Z^1 is oxygen or N-R^3,

R^1 and R^2 are each independently C_2-C_{20}-alkylene, or

R^2-OH is a group of the formula -$[X_i]_k$-H,

R^3 is hydrogen or C_1-C_{18}-alkyl,

k is a number from 1 to 50 and

X_i, for each i=1 to k may independently be selected from the group of -CH_2-CH_2-O-, -CH_2-$CH(CH_3)$-O-, -$CH(CH_3)$-CH_2-O-, -CH_2-$C(CH_3)_2$-O-, -$C(CH_3)_2$-CH_2-O-, -CH_2-CH_2-CH_2-O- and -CH_2-CH_2-CH_2-CH_2-O-,

are esterified with (meth)acrylic acid or transesterified with at least one (meth)acrylic ester (D) in the presence of at least one heterogeneous catalyst selected from the group consisting of inorganic salts (S) and enzymes (E),

wherein the inorganic salt (S) has at least one cation selected from the group consisting of lithium, sodium and potassium; and at least one anion which is phosphate (PO_4^{3-}),

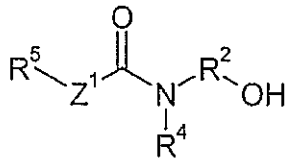
and wherein the enzymes (E) is selected from the group consisting of lipases from *Candida antarctica B*, *Alcaligenes sp.*, *Aspergillus sp.*, *Mucor sp.*, *Penicilium sp.*, *Geotricum sp.*, *Rhizopus sp.*, *Burkholderia sp.*, *Candida sp.*, *Pseudomonas sp.*, *Thermomyces sp.* and porcine pancreas.

2. The process according to claim 1, wherein the at least one inorganic salt (S) has a pK_B of not more than 7.0 and not less than 1.0, and a solubility in the reaction medium at 25° C. of not more than 1 g/l.

3. The process according to claim 1, wherein the reaction is carried out in such a way that the product (C) is obtained on completion of the reaction as an about 10-80%

by weight solution in the (meth)acrylic ester used as the reactant.

4. A process for preparing (meth)acrylates of N-hydroxyalkylated amides, in which open-chain N-hydroxyalkylated amides (O)



are esterified with (meth)acrylic acid or transesterified with at least one (meth)acrylic ester in the presence of at least one heterogeneous catalyst selected from the group consisting of an inorganic salt and an enzyme,

wherein

Z^1 is mono- or unsubstituted nitrogen ($N\text{-}R^3$),

R^2 is C_2-C_{20}-alkylene, or

R^2-OH is a group of the formula $-[X_i]_k-H$,

R^3, R^4 and R^5 are each independently hydrogen or C_1-C_{18}-alkyl,

k is a number from 1 to 50,

X_i for each i=1 to k may independently be selected from the group of $-CH_2-CH_2-O-$, $-CH_2-CH(CH_3)-O-$, $-CH(CH_3)-CH_2-O-$, $-CH_2-C(CH_3)_2-O-$, $-C(CH_3)_2-CH_2-O-$, $-CH_2-CH_2-CH_2-O-$ and $-CH_2-CH_2-CH_2-CH_2-O-$,

the inorganic salt has at least one anion which is phosphate (PO_4^{3-}), and

the inorganic salt has at least one cation selected from the group consisting of lithium, potassium and sodium,

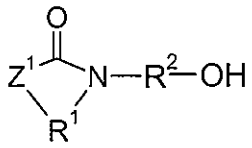
and the enzyme is selected from the group consisting of lipases from *Candida antarctica B*, *Alcaligenes sp.*, *Aspergillus sp.*, *Mucor sp.*, *Penicilium sp.*, *Geotricum sp.*, *Rhizopus sp.*, *Burkholderia sp.*, *Candida sp.*, *Pseudomonas sp.*, *Thermomyces sp.* and porcine pancreas.

5. The process according to claim 4, wherein the inorganic salt has a pK_B of not more than 7.0 and not less than 1.0, and a solubility in the reaction medium at 25° C. of not more than 1 g/l.

6. The process according to claim 4, wherein the reaction is carried out in such a way that the open-chain N-hydroxyalkylated amides are obtained on completion of the reaction as an about 10-80% by weight solution in the (meth)acrylic ester used as the reactant.

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are esterified with (meth)acrylic acid or transesterified with at least one (meth)acrylic ester (D) in the presence of at least one heterogeneous catalyst selected from the group consisting of inorganic salts (S) and enzymes (E),

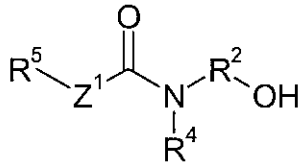
wherein the inorganic salt (S) has at least one cation selected from the group consisting of lithium, sodium and potassium; and at least one anion which is phosphate (PO_4^{3-}),

and wherein the enzymes (E) is selected from the group consisting of lipases from *Candida antarctica B*, *Alcaligenes sp.*, *Aspergillus sp.*, *Mucor sp.*, *Penicilium sp.*, *Geotricum sp.*, *Rhizopus sp.*, *Burkholderia sp.*, *Candida sp.*, *Pseudomonas sp.*, *Thermomyces sp.* and porcine pancreas.

2. The process according to claim 1, wherein the at least one inorganic salt (S) has a pK_B of not more than 7.0 and not less than 1.0, and a solubility in the reaction medium at 25° C. of not more than 1 g/l.

3. The process according to claim 1, wherein the reaction is carried out in such a way that the product (C) is obtained on completion of the reaction as an about 10-80% by weight solution in the (meth)acrylic ester used as the reactant.

4. A process for preparing (meth)acrylates of N-hydroxyalkylated amides, in which open-chain N-hydroxyalkylated amides (O)



are esterified with (meth)acrylic acid or transesterified with at least one (meth)acrylic ester in the presence of at least one heterogeneous catalyst selected from the group consisting of an inorganic salt and an enzyme,

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each X_i may independently be selected from the group of $-CH_2-CH_2-O-$, $-CH_2-CH(CH_3)-O-$, $-CH(CH_3)-CH_2-O-$, $-CH_2-C(CH_3)_2-O-$, $-C(CH_3)_2-CH_2-O-$, $-CH_2-CH_2-CH_2-O-$ and $-CH_2-CH_2-CH_2-CH_2-O-$,

the inorganic salt has at least one anion which is phosphate (PO_4^{3-}), and

the inorganic salt has at least one cation selected from the group consisting of lithium, potassium and sodium,

and the enzyme is selected from the group consisting of lipases from *Candida antarctica B*, *Alcaligenes sp.*, *Aspergillus sp.*, *Mucor sp.*, *Penicilium sp.*, *Geotricum sp.*, *Rhizopus sp.*, *Burkholderia sp.*, *Candida sp.*, *Pseudomonas sp.*, *Thermomyces sp.* and porcine pancreas.

5. The process according to claim 4, wherein the inorganic salt has a pK_B of not more than 7.0 and not less than 1.0, and a solubility in the reaction medium at 25° C. of not more than 1 g/l.

6. The process according to claim 4, wherein the reaction is carried out in such a way that the open-chain N-hydroxyalkylated amides are obtained on completion of the reaction as an about 10-80% by weight solution in the (meth)acrylic ester used as the reactant.