CLAIMS:

1. A method for crystallizing (meth)acrylic acid ~~melting (meth)acrylic acid crystal while wetting with a crystalline molten liquid~~ comprising the steps of: (1) crystallization operation, (2) sweating operation and (3) melting operation,

wherein

(1) the crystallization operation comprises depositing an (meth)acrylic acid crystal,

(2) the sweating operation comprises sweating the (meth)acrylic acid crystal to obtain a (meth)acrylic acid crystal containing a reduced amount of impurities, and

(3) the melting operation comprises melting a part of the (meth)acrylic acid crystal containing a reduced amount of impurities to obtain a molten liquid melted after initiation of the melting and,

wherein

(a) a polymerization inhibitor is added to ~~a~~ the molten liquid melted after initiation of the melting~~, and all of crystal is melted while~~ and

(b) ~~circulating and feeding~~ the molten liquid containing ~~said~~ the polymerization inhibitor is circulated and fed to the (meth)acrylic acid crystal containing a reduced amount of impurities until all of the (meth)acrylic acid crystal is melted.

2. The method for crystallizing (meth)acrylic acid according to claim 1, wherein a solid or a concentrated solution of the polymerization inhibitor is added to the molten liquid melted after initiation of the melting.

3. The method for crystallizing (meth)acrylic acid according to claim 1~~ or 2~~, wherein the (meth)acrylic acid crystal is ~~the one~~

obtained by crystallizing a crude (meth)acrylic acid using a dynamic crystallizer.

4. The method for crystallizing (meth)acrylic acid according to ~~any one of~~ claim~~s~~ 1~~ to 3~~, wherein the (meth)acrylic acid crystal is ~~the one~~ obtained by crystallizing a crude (meth)acrylic acid using a melt crystallizer, and the polymerization inhibitor is added directly to the crystalline molten liquid of a collector section of said crystallizer.

5. The method for crystallizing (meth)acrylic acid according to ~~any one of~~ claim~~s~~ 1~~ to 4~~, wherein the (meth)acrylic acid to be provided to the crystallization method is ~~the one~~ obtained by:

a production method comprising a step where at least one kind of raw material of (meth)acrylic acid selected from ~~a~~ the group consisting of alkane, alkene, alkanol and alkanal, ~~which have~~ each having 3 to 4 carbon atoms, is subjected to a catalytic gas phase oxidation;

a production method comprising a step where glycerin or 2-methylglycerin is dehydrated to be converted to (meth)acrolein, and a step where said (meth)acrolein is further oxidized to be converted to (meth)acrylic acid; or

a production method comprising a dehydration step where hydroxypropionic acid or 2-methyl-3-hydroxypropionic acid is converted to (meth)acrylic acid.

~~6. A method for adjusting a content of polymerization inhibitor in a product (meth)acrylic acid comprising: melting (meth)acrylic acid crystal in the final purification stage of multistep crystallization operation; adding a predetermined amount of polymerization inhibitor corresponding to a product specification to a molten liquid melted after initiation of melting; melting all~~

~~of crystal while circulating and feeding the molten liquid containing said polymerization inhibitor to the crystal; and thereafter taking out as a product (meth)acrylic acid to outside the system.~~

~~7. The method for adjusting a content of polymerization inhibitor in (meth)acrylic acid according to claim 6, wherein a solid or a concentrated solution of the polymerization inhibitor is added to the molten liquid.~~

~~8. The method for adjusting a content of polymerization inhibitor in (meth)acrylic acid according to claim 6 or 7, wherein the (meth)acrylic acid crystal is the one obtained by crystallizing a crude (meth)acrylic acid using a dynamic crystallizer.~~

~~9. The method for adjusting a content of polymerization inhibitor in (meth)acrylic acid according to any one of claims 6 to 8, wherein the (meth)acrylic acid crystal is the one obtained by crystallizing a crude (meth)acrylic acid using a melt crystallizer, and the polymerization inhibitor is added directly to the collector section of said crystallizer.~~

~~10. A method for producing a hydrophilic resin, comprising polymerizing monomers containing (meth)acrylic acid obtained by the crystallization method according to any one of claims 1 to 5 or a product (meth)acrylic acid obtained by the adjustment method according to any one of claims 6 to 9.~~

~~11. A method for producing a water absorbing resin, comprising polymerizing monomers containing (meth)acrylic acid obtained by the crystallization method according to any one of claims 1 to 5 or a product (meth)acrylic acid obtained by the adjustment method~~

~~according to any one of claims 6 to 9.~~

6. The method for crystallizing (meth)acrylic acid according to claim 2, wherein the (meth)acrylic acid crystal is obtained by crystallizing a crude (meth)acrylic acid using a dynamic crystallizer.

7. The method for crystallizing (meth)acrylic acid according to claim 2, wherein the (meth)acrylic acid crystal is obtained by crystallizing a crude (meth)acrylic acid using a melt crystallizer, and the polymerization inhibitor is added directly to the collector section of said crystallizer.

8. The method for crystallizing (meth)acrylic acid according to claim 1, wherein the method is performed without installing an exclusive molten liquid tank or heating means for molten liquid at melting of the (meth)acrylic acid crystal.