[CLAIMS]

What is claimed is:

[Claim 1]

A method for separating water-containing crystals, the method comprising:

a step of generating water-containing crystals from a mixed liquid including water, acetic acid, and methacrylic acid; and

a step of separating the crystals,

wherein a proportion by mass of methacrylic acid with respect to a total mass of water, acetic acid, and methacrylic acid in the mixed liquid is 0.09% by mass or more and less than 0.60% by mass.

[Claim 2]

The method for separating water-containing crystals according to Claim 1,

wherein a proportion by mass of water with respect to the total mass of water, acetic acid, and methacrylic acid in the mixed liquid is more than 79.94% by mass and 99.86% by mass or less.

[Claim 3]

The method for separating water-containing crystals according to Claim 1,

wherein a proportion by mass of acetic acid with respect to the total mass of water, acetic acid, and methacrylic acid in the mixed liquid is 0.05% by mass or more and 20.00% by mass or less.

[Claim 4]

The method for separating water-containing crystals according to any one of Claims 1 to 3,

wherein the step of generating the crystals is a step of generating water-containing crystals by cooling the mixed liquid.

[Claim 5]

The method for separating water-containing crystals according to Claim 4, wherein a cooling temperature for the mixed liquid is -15°C or higher and 10°C or lower.

[Claim 6]

A method for producing methacrylic acid, the method comprising:

a step of separating water by the method according to any one of Claims 1 to 5.

[Claim 7]

A method for producing a methacrylic acid ester, the method comprising:

a step of producing methacrylic acid by the method for producing methacrylic acid according to Claim 6; and

a step of producing a methacrylic acid ester from the methacrylic acid and methanol.