

Title (en)

METHOD FOR CONTROLLING PARTICLE SIZE IN THE CRYSTALLIZATION OF DIMETHYLOL ALKANOIC ACIDS

Title (de)

VERFAHREN ZUR STEUERUNG DER PARTIKELGRÖSSE IN DER KRISTALLISATION VON DIMETHYLOLALKANSÄUREN

Title (fr)

PROCEDE DE REGULATION DE LA GRANDEUR DES PARTICULES DANS LA CRISTALLISATION D'ACIDES DIMETHYLOLALCANIQUES

Publication

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Application

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Abstract (en)

[origin: WO0190041A1] The invention relates to a method for the selective crystallization of poly- or monomethylol alkanolic acids of the general formula (I), wherein R is the same or different and represents a methylol group or a substituted or unsubstituted aliphatic hydrocarbon, with an essentially monomodal particle size distribution. This particle size distribution is achieved by crystallization in a temperature interval of from 85 DEG C to 50 DEG C observing a cooling rate of < 10 K/h, resulting in substantially trigonal-symmetric crystals. The invention further relates to a method for the selective crystallization of poly- or monomethylol alkanolic acids of the general formula (I), wherein R is the same or different and represents a methylol group or a substituted or unsubstituted aliphatic hydrocarbon, with an essentially monomodal particle size distribution. Crystallization is carried out at a temperature of <= 50 DEG C or in a temperature interval of from 50 DEG C to 5 DEG C and observing a cooling rate of < 15 K/h

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