

Title (en)

A METHOD FOR PREPARING ESTERIFIED CELLULOSE AND/OR HEMICELLULOSE

Title (de)

VERFAHREN ZUR HERSTELLUNG VON VERESTERTER CELLULOSE UND/ODER HEMICELLULOSE

Title (fr)

PROCÉDÉ DE PRÉPARATION DE CELLULOSE ET/OU D'HÉMICELLULOSE ESTÉRIFIÉE(S)

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Application

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Abstract (en)

[origin: WO2022101551A1] A method for preparing esterified cellulose and/or hemicellulose is disclosed. The method may comprise mixing an anhydride mixture and cellulose and/or hemicellulose, thereby obtaining an esterification mixture, such that the anhydride mixture esterifies the cellulose and/or hemicellulose at least partially, thereby forming the esterified cellulose and/or hemicellulose; and wherein the anhydride mixture is obtainable or obtained by reacting a fatty acid with a short-chain acid anhydride in the presence of an acid catalyst, such that an initial anhydride mixture is obtained, wherein the initial anhydride mixture comprises a mixed anhydride having a fatty acyl group and a short-chain acyl group, a portion of the short-chain acid anhydride, and a short-chain acid and optionally a fatty acid anhydride having two fatty acyl groups; and removing the short-chain acid, the short-chain acid anhydride and optionally water and/or impurities present in the initial anhydride mixture at least partially from the initial anhydride mixture, thereby obtaining the anhydride mixture.

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