

Title (en)  
METHOD FOR PRODUCING TANNING AGENTS CONTAINING SULPHONE

Title (de)  
VERFAHREN ZUR HERSTELLUNG SULFONHALTIGER GERBSTOFFE

Title (fr)  
PROCEDE DE PRODUCTION D'AGENTS DE TANNAGE CONTENANT DU SULFONE

Publication  
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Application  
**EP 02794798 A 20020816**

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Abstract (en)  
[origin: WO03016578A1] The invention relates to a method for producing a solution of tanning agents containing sulphone. In said method, a) a component A is produced as follows: a1) phenol is reacted with concentrated sulphuric acid or with oleum with an SO<sub>3</sub> content of between 20 and 65 wt. %, or with a mixture of sulphuric acid and oleum with an SO<sub>3</sub> content of between 20 and 65 wt. %, whereby the molar ratio of total sulphuric acid, calculated in the form of SO<sub>3</sub> to phenol is between 0.7: 1 and 1.5: 1, at a temperature of between 100 and 180 DEG C to obtain a mixture containing phenolsulphonic acid, dihydroxydiphenyl sulphone and sulphuric acid, or the individual components are blended to produce a corresponding mixture; a2) said mixture is subsequently condensed at between 40 and 90 DEG C per mol of phenol units present with between 0.25 and 4 mol of urea and between 0.5 and 4 mol of an aliphatic aldehyde comprising between 1 and 6 C atoms, a3) optionally a pH value of between 4 and 5 is set by adding a base; b) a component B is produced as follows: b1) dihydroxydiphenyl sulphone is reacted with between 0.5 and 5 mol of an aliphatic aldehyde comprising between 1 and 6 C atoms and between 0.4 and 2 mol of sodium sulphite per mol of dihydroxydiphenyl sulphone, at a temperature of between 90 and 180 DEG C; b2) optionally a pH value of between 3.5 and 5.5 is set by adding an acid. c) Between 10 and 90 wt. % of component A is mixed with between 90 and 10 wt. % of component B, (the sum of A and B amounting to 100 wt. %) and if not already accomplished in steps a3) and b2), the pH value of the mixture is set at between 3.5 and 5.5.

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