

Title (en)

TRISAZO AND POLYAZO DYES AND THE MIXTURES THEREOF

Title (de)

TRIS- UND POLYAZOFARBSTOFFE SOWIE IHRE MISCHUNGEN

Title (fr)

COLORANTS TRIS ET POLYAZO QUES ET LEURS MELANGES

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Application

EP 99955488 A 19990522

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Abstract (en)

[origin: DE19825202A1] The invention relates to azo dyes having general formula (I), wherein one of radicals X<1> and X<2> represents hydroxy and the other represents amino or C1-C4-alkylamino optionally substituted by hydroxy, cyano, carboxyl, hydroxysulfonyl, methoxycarbonyl, ethoxycarbonyl or acetoxy; n equals 0 or 1; m equals 1 or 2; k equals 0 or additionally 1, 2, 3 or 4 when X<3> stands for NH2; D<1>, D<2>, D<3> and D<4> independently represent hydrogen or hydroxysulfonyl; Z<1> represents a direct bond or a binding link of formula SO2NH-A, -SO2Nalk-A, -SO3-A, NH-A-, Nalk-A-, -SO2-A-, SONH-A-, or CO-A, wherein A represents phenylene which may be substituted by hydroxysulfonyl or carboxyl, or naphthylene which may be substituted by hydroxysulfonyl or carboxyl, whereby A is bonded to the azo bridge; Alk represents C1-C8-alkyl which may be interrupted by 1 to 3 non-adjacent oxygen atoms, 1 sulfur atom or 1 sulfonyl group and may be substituted by hydroxy, C1-C4-alkanoyloxy, benzyloxy, halogen, cyano, carboxy, hydroxysulfonyl, carbamoyl, phenyl or hydroxysulfonylphenyl or C5-C8-cycloalkyl; K represents the radical of an optionally substituted derivative of a benzol, naphthalene, pyrazole, pyridine, pyrimidine, indole or N-arylacetoacetamide series; X<3> represents hydrogen or amino and Y represents a radical -CH2CH2OH, -CH2CH2-ND<5>D<6>, -CH=CH2 or -CH2CH2Q, wherein Q represents a group that may be separated under alkaline reaction conditions. The invention further relates to the mixtures of said dyes, to a method for their production and to their use for dyeing natural or synthetic substrates.

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