

Title (en)
REACTIVE AZO DYES, METHODS FOR THE PRODUCTION THEREOF AND THEIR USE

Title (de)
REAKTIVE AZOFARBSTOFFE, VERFAHREN ZU IHRER HERSTELLUNG UND IHRE VERWENDUNG

Title (fr)
COLORANTS REACTIFS AZO, LEURS PROCEDES DE PRODUCTION, ET LEUR UTILISATION

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EP 1877495 A2 20080116 (DE)

Application
EP 06806725 A 20060419

Priority
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• DE 102005019333 A 20050426

Abstract (en)
[origin: DE102005019333A1] Reactive pyridine dye compound (I) is new. Reactive pyridine dye compound of formula (I) is new. D : diazo component of benzol- or naphthalene- compounds, or a heterocyclic compound of mono- or diazo dye; R 1>1-4C-alkyl; R 2>CN, carbamoyl or sulfomethyl; either R 3>-R 5>H, 1-18C-alkyl or 4-7C-cycloalkyl optionally substituted by OH, sulfo, sulfato or vinylsulfonyl and optionally interrupted by O or NR 7>, except CH 3; or R 3>R 4>heterocyclic group; R 7>H or 1-4 C-alkyl; Q : 1-18C alkylene, optionally substituted by 1-4C-alkyl, halo or OH and optionally interrupted by O or NR 7>, except CH 3; n : 0 or 1; Ar : phenyl- or naphthyl optionally substituted by sulfo, carboxy, 1-4C-alkyl, 1-4C-alkoxy or halo; Y 1>CH=CH 2or CH 2-CH 2-Y a; and Y aOH or alkali. Independent claims are included for: (1) a diaminopyridine compound of formula (II); (2) methods for the preparation of (II) comprising reacting a 2,6-dichloropyridine compound of formula (III) with a molar equivalent of an amine compound (IV) of formula (H-N(R 3>)(R 4>)) to obtain an isomeric monoaminopyridine compound of formula (V), reacting (V) with an amine compound (VII) of formula ((H)(R 5>)-N-Q-(Ar) n-SO 2-Y 1>) or with an sulfonil amine compound (VIII) of formula ((H)(R 5>)-N-Q-(Ar) n-SO 2-Y 1>), and subsequent oxidation of (V) and (VIII) gives an intermediate pyridine compound of formula (X) and optionally followed by reaction with the corresponding acid derivative or corresponding acid to obtain a desired product, which is converted to corresponding vinyl compound, or reacting (III) with (VIII) to obtain monochloro pyridine derivative of formula (IX), oxidizing (IX) to obtain monochloro pyridine compound of formula (VI), further reacting (VI) with (IV) and optionally followed by reaction with the corresponding acid derivative or corresponding acid to obtain a desired product, which is converted to corresponding vinyl compound, or reacting (III) with (VIII) to obtain (IX), further reacting (IX) with (IV) and subsequently oxidizing (X) and optionally followed by reaction with the corresponding acid derivative or corresponding acid to obtain a desired product, which is converted to corresponding vinyl compound, or reacting (III) with (VII) to obtain (VI), further reacting (VI) with (IV) and optionally followed by reaction with the corresponding acid derivative or corresponding acid to obtain a desired product, which is converted to corresponding vinyl compound; (3) an aqueous printing ink for textiles by ink-jet process comprising (I) (0.01-40 wt.%); (4) a method for the preparation of (I); and (5) a method for coloring and conventional imprinting of textile fiber materials by ink-jet process comprising using one or more (I). [Image] [Image] [Image].

IPC 8 full level
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