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(12)

(KR)
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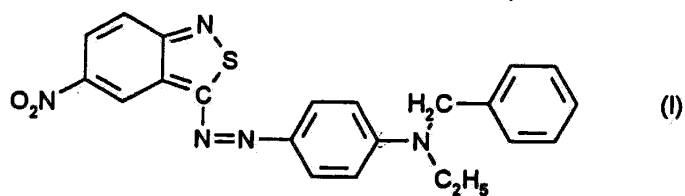
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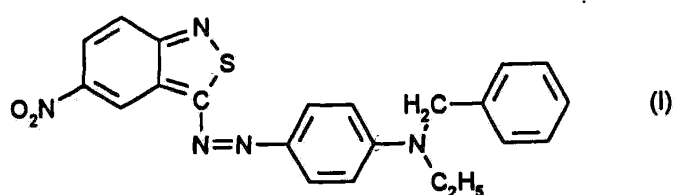
(54)

(I) , :



1 2 (I) X- (Cu-K α)
3 (I) X- (Cu-K α)

DE-A 1 644 061 JP 93 015836



(I) (stain) (build-up)
, pH , , 3- -5- -1,2-
(I) N- -N- 가
(I) 3 X- (Cu-K α)
(I) 2 가
, X- (Cu-K α) 2 θ (°) (I)
(1) :

: 25.8
: 6.5; 7.6; 9.3; 12.0;
13.0; 15.1; 15.8; 17.5;
18.6; 20.0; 21.9; 24.0;
27.7; 31.0

X- 1
가 X- (Cu-K α) 2 θ (°) (I) (
2) :
: 12.0; 16.1; 17.0; 20.4;
21.9; 23.7; 26.4; 27.1;
: 6.0; 8.1; 9.9; 14.2;
18.5; 23.1; 24.3; 25.1;
28.5; 30.2; 31.1; 32.6;
33.1

X- 2
(Siemens) D 500 1 3 X-

(I) 1 3- -5- -1,2-
N- -N-

; / 3 ; ;
/ ; ;
; 가

6 , 1 6 2 6
1 8

(II) :

R^1 -CO-OR² (II)

R^1 H, 1 5
 R^2 R³ 1 8
 n 0 4
 R^2 R³

-(CH₂)_nCO-OR³ ,

$R^1, R^2 / R^3$

, i- , i-
 , sec- , i- , i-
 , i- , - , - , -i- , -i- , -sec- , -
 , -i- , - , -i- 3 8 가 . ,
 , i- , i- 가 .
 , 2
 , C₁₀ - C₁₈ - , C₁₀ - C₁₈ - ,
 C₁₄ - C₁₈ - ,
 / ,
 , 10 18 , 16 18 , (tallo
 w) (C₁₀ -C₁₈)- 16 18 R⁰ R⁰
 OH .
 H(OCH₂CH₂)_nOH
 /
 가 . ,
 , 가
 , 가
 /
 $R^4, R^5 R^6$ 3
 R^6 OH R^0 OH R^0 (OCH₂CH₂)_p OH 1 10 , 1 4
 ,
 /
)(OR⁹) , R⁷, R⁸ R⁹ 3 O=P(OR⁷)(OR⁸)
 , R⁸ OH R⁹ OH R⁰ (OCH₂CH₂)_q OH , q
 H(OCH₂CH₂)_r OH 1 4 , r 2 15 , 5 10 ,
 R⁰ (OCH₂CH₂)_s OH , s 10 30 5
 R¹⁰ CO(OCH₂CH₂)_t OH , t
 5 50 , R¹⁰ COOH 10 30 . R¹⁰ C₁₀ - C₂₀ - , C₁₆ -
 C₁₉ -
 , u 5 50 , 10 30 Ar(OCH₂CH₂)_u OH
 , Ar
 , 가 ArOH
 ,
]_w [(CH₂O)]_x H , v + x 2 100 , HO[(CH₂O)]_v [CH₂CH(CH₃)O]
 50 , 1 25 v + w + x 20 150 , 2 50 , w 1
 50 120

HLB() (: R 6 mpps Chemie-Lexikon [R
 6 mpps Chemical Dictionary], 8th Edition, Stuttgart 1983, page 1715)

HLB , 8 18 ,

[illegible]

(I) (1 2)

(I) (bead) (mill)
0.1 10 μm , 1 μm

50 % 25%
15 %
m-

가

0-

(I) 1 2 1 2
1 2

(putty-like)

가

가

가

(I) 1 2
/

1 2

1 2

가

1 2

(pad-dyeing)

(I) 1 2

[Chemiefasern/Textilindustrie Volume 41/93, September 1991, page 1118; Textilveredlung 28 (1993), page 88
Textilveredlung 28 (1993), page 96]

(I) 1 2 HT
pH 11 , pH 8 pH 11

, DE-A 39 38 631, EP-A 624 683
, EP-A 449 090, EP-A 540 936, EP-A 643 107 [International Dryer, October 1994, page 34]

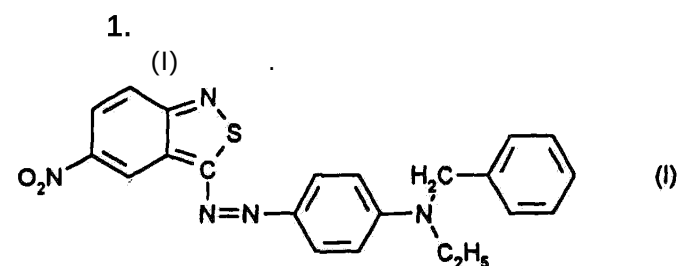
1
41.8% 80g 5 10 2 가 90 ml 49g 3- 1
-5- -1,2- , 20g 가 56g N- -N- 250ml 5
0 15 0 5 가 10g 가 가 2.5
0 5 가 800g 가 가 3

, 136 138 0-
593nm (I) 85g 1

2

- 1 50g 0.01g 130 2
- 250ml 2 X-
- 2 3
- a) 1 60g 200g 140g 155
- 90%가 $1\mu\text{m}$
- 85
- b) 가
- c) a) DE-A 16 44 061 (I)
- d) a) 가
- 4 2 100g 100g, 2g 90%가
- 1 μm 가 22%
- b) a) 0.7mm VA 3kP/m² 가
- 5 pH 10.5 2 , 5g 100g
- a) 2g 130 45 3 3g
- b) a) , 4g 가 pH 10.5 pH 4.5
- 6 4a) 50g 1000g 45g , 6.0g m- 3.0g
- 5 15 1.

(57)



2. 3- -5- -2,1- (I) N- -N-

3. X- (Cu-K α) $2\theta(^{\circ})$, 1 (I) :

: 25.8

: 6.5; 7.6; 9.3; 12.0;

13.0; 15.1; 15.8;

17.5; 18.6; 20.0;

21.9; 24.0; 27.7;

31.0

4. 2 , 3
- 5.

4 , 가 ;
 / 3 ;
 3 ;
 ; - ;

6.
 X- (Cu-K α) $2\theta(^{\circ})$, 1 (I) :
 : 12.0; 16.1; 17.0;
 20.4; 21.9; 23.7;
 26.4; 27.1;
 : 6.0; 8.1; 9.9; 14.2;
 18.5; 23.1; 24.3;
 25.1; 28.5; 30.2;
 31.1; 32.6; 33.1

7.
 3 (I) 70 150 가
 , 6 .

8.
 / , 1 , 3 6 .

