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C07D 249/20

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(11)
(24)

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2003 03 18

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(30) 08/424843 1995 04 19 (US)

(73) -4057 141

(72) 10504 23

10954 7

10960 581

10541 30

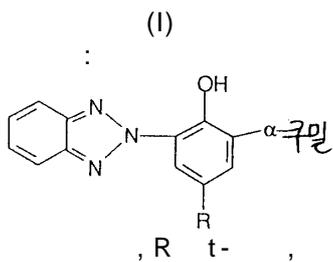
10501 653

1723 6

(74)

:

(54) 2-(2- -3- -5-)-2H-



-CH_m CH_{2m} COOR₄ (R₄ , m 1 4) .

2-(2- -3- -5-)-2H-
 4,278,589 2-(2- -3- -5-t-)-2H- 2-(2- -3-)-2H-
 -t- -5- -)-2H- 4,278,589 2-(2- -3-)-2H-
 -3,5- - -)-2H-
 , 14 %
 가 , 2-(2- -3,5- - -)-2H- 가
 75/158588 2-(2- -3- -5- -)-2H-
 2-(2- -3- -5- -)-2H-
 4,283,327 2-(2- -3,5- -t-)-2H- 5- -2-(2-
 -3,5- -t-)-2H- 4,587,346; 4,675,352; 4,973,701;
 5,095,062 5,240,975
 , - 3
 5 - 3
 가 2-(2- -3- -5-)-2H- 가
 2-(2- -3- -5-t-)-2H- 가
 2-(2- -3- -5-t-)-2H- 88 90
 4,278,589 18
 가
 2-(2- -3- -5-t-)-2H- , , ,
 가
 109 111 ; (2)

Cu-K

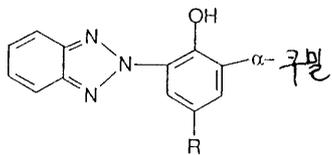
X-

피크번호	2θ	피크번호	2θ	피크번호	2θ	피크번호	2θ
1	9.6	2	10.2	3	10.4	4	10.8
5	12.8	6	13.8	7	14.2	8	14.8
9	15.0	10	16.4	11	16.8	12	17.8
13	18.0	14	18.6	15	19.0	16	19.4
17	19.8	18	20.2	19	20.6	20	21.2
21	21.4	22	23.0	23	23.4	24	24.6
25	26.0	26	28.0	27	29.0	28	30.4
29	31.0						

2-(2- -3- -5-t-)-2H-

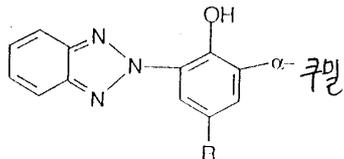
2-(2- -3- -5-)-2H-

-)-2H- R - C_m H_{2m} COOR₄ (R₄ 1 18 , m 1 4) -5



R, -CH_mCH_{2m}COOR₄ (R₄ 1 12, m 2) 1 18, 가 ; 2-(2- -3- -5-t-)-2H- 가 1 4, 15 % , 5 15, n- 2,3 4 , 가 , 1- , 2 - 1- :

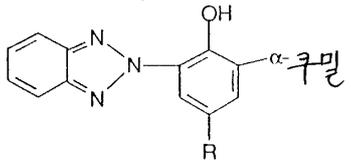
(a) 2-(2- -3- -5-t-)-2H- 2-(2- -3- -5-)-2H- (b) R -C_mH_{2m}COOR₄ (R₄ 1 18, m 1 4)



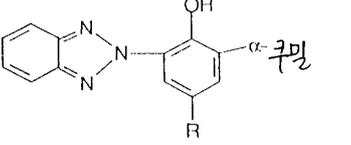
0.01 20 %가 가 2- [2- -3,5- (-)]-2H- (14 %) 가 , 가 가 , 2-(2- -3- -5-t-)-2H 2-[2- -3,5- (-)]-2H 가 , n- t- , n- , 2- , 3- -n- , n- -s- , -2- 가 - (2,4-)-6-(2- -4- [3-)-2-]-s- ; 2,4- ,2,6,6- -4-) ; - (1,2,2,6,6- -4-) ; N-1,2,2,6,6- -4- -n- -4- -n- 가 :

(a) 2-(2- -3- -5-)-2H- UV (b) 2-(2- -3- -5-)-2H- UV

]1,2,3,4- (2,2,6,6- -3-), N-2,2,6,6- -4- -n- - , 4,4'-
 ,2,6,6- , 1- -3- -7,7,9,9- , N-1- -2,2,6,6- -4- -n- , N-1,2
 2,2,6,6- , 1- -2,2,6,6- -4-) , (1- -2,2,6,6- -4-)
 - , 1- -2,2,6,6- -4-) , -{[6-t- -s- -2,4-]-[2-(1-
 - -2,2,6,6- -4-) -[4-(1- -2,2,6,6- -4-)-n-
]-s- , 2,4- [N-(1- -2,2,6,6- -4-)-n-]-6-[-(
 2-)]-s- , 2,4- [N-(1- -2,2,6,6- -4-)-n-
]-6-[-(2-)]-s- .
 가 (2,2,6,6- -4-) , (1,2,2,6,6- -4-) (3,5- -t- -4-) ,
 1-(2-)-2,2,6,6- -4- , 2,4- -6-t- ,
 -s- 4,4'- (-2,2,6,6- -4-)) , N,N',N',N''-
 [(4,6- (-2,2,6,6- -4-))-s- -2-]-1,10- -4,7-
 , -(1- -2,2,6,6- -4-) , -(1- -2,2,6,6-
 -4-) , 1- -2,2,6,6- -4- - , -{[6-t-
 -s- -2,4-]-[2-(1- -2,2,6,6- -4-) -[4-(1-
 - -2,2,6,6- -4-)] , 2,4,6- [N-(-2,2,6,6-
 -4-)-n-]-s- .
 1 2 2-(2- -3- -5-t-)-2H-
 , 2-(2- -3- -5-)-2H- , 2-(2- -3-
 - -5-)-2H- R -CH_m CH_{2m} COOR₄ (R₄ 1 18 , m



3- -5-)-2H- 1 2 2-(2- -3- -5-t-)-2H-
 m 1 4) R -CH_m CH_{2m} COOR₄ (R₄ 1 18 ,



8 70 ; 4 , 50 100%) 3000 , QUV (:
 X Cu-K (Norelco) X-
 40 75
 1: 2-(2- -3- -5-t-)-2H-
 , -5'-t- 380g(0.8) 5 3가 2- -2'- -3'- , -
 40ml 가 . 50.1% 1200ml . 160ml 가 . 158.2g(2.42g) 2
 가 1 40 45 90 가 . 가
 , 600ml 3 70 가
 , 4340ml .
 300g 300ml , 600ml 가
 109 111 (I) 가
 254g .

C₂₉H₃₅N₃O에 대한 계산치: C, 78.9; H, 8.0; N, 9.5.

실측치: C, 78.7; H, 8.1; N, 9.6.

(2) Cu-K

X-

피크번호	2θ	피크번호	2θ	피크번호	2θ	피크번호	2θ
1	9.6	2	10.2	3	10.4	4	10.8
5	12.8	6	13.8	7	14.2	8	14.8
9	15.0	10	16.4	11	16.8	12	17.8
13	18.0	14	18.6	15	19.0	16	19.4
17	19.8	18	20.2	19	20.6	20	21.2
21	21.4	22	23.0	23	23.4	24	24.6
25	26.0	26	28.0	27	29.0	28	30.4
29	31.0						

2: 2-(2- -3- -5-t-)-2H-

4,278,589

18

88

90

(2)

Cu-K

X-

피크번호	2θ	피크번호	2θ	피크번호	2θ	피크번호	2θ
1	5.2	2	6.2	3	6.8	4	9.2
5	9.7	6	11.0	7	12.0	8	12.2
9	13.0	10	13.6	11	14.6	12	15.4
13	15.6	14	16.4	15	17.8	16	18.8
17	19.4	18	19.8	19	20.4	20	21.0
21	22.4	22	22.8	23	23.4	24	24.2
25	25.0	26	25.4	27	26.0	28	27.6
29	29.4	30	30.8	31	31.2	32	32.4

1

X-

4,278,589

18

X

3: 2-(2- -3- -5-t-)-2H-

1

가

59

74

1

X

4: 2-(2- -3- -5-)-2H-

1

o-

C₃₀H₃₇N₃O에 대한 계산치: C, 79.1; H, 8.2; N, 9.2.

실측치 C, 79.5; H, 8.5; N, 9.0.

5: 2-(2- -3- -5-t-)-2H-

1

o-

100g

100ml,

19:1

:

100ml,

9:1

: 100ml

109

111

, 1

X-

78g

6: 2-(2- -3- -5-)-2H-

1

7: 2-(2- -3- -5-)-2H-

1

. CDCl₃

H-NMR

[ppm]: 0.

8-0.9

: 1.3-1.42

: 1.9

: 7.14-7.30

: 7.44

: 7.48-7.64

: 7.86

8.20-8.34

: 11.38-11.46

8: 2-(2- -3- -5-)-2H-

1

o-

9 10:

1 5

3

13:

- A. 2-(2- -3- - -5-t-)-2H- , 5 ;
- B. 2-(2- -3- - -5-)-2H- , 4 ;
- C. 2-(2- -3- - -5-)-2H- , 8 ;
- D. 2-(2- -3,5- - -)-2H- , -가 Tinuvin® 900 (

Resimene® 747 (,) 40 60

0.6 (0.02mm)
2 (0.05mm)
A-D (-HAPS)

가
QUV(FD40)

샘플 번호*	상의 구분 노출 시간							
	0	896	1860	2169	2468	2739	2990	3300
I	93	23	8	6	3	4	3	3**
II	93	69	38	34	25	29	21	7**
III	94	95	90	88	81	82	68	55
IV	91	90	85	85	81	81	80	72
V	94	95	91	89	74	91	90	88

- *I ;
- II D 0.24 % 가 ;
- III A 1.2 % 가 ;
- IV C 3 % 가 ;
- V B 3 % 가 .

** 가
가 -HAPS
가 D
D 0.24 % A
A 1.2 % B C
가 A, B C 가 D C 3 %

(57)

1.

(2) Cu-K X- 109 111
2-(2- -3- - -5-t-)-2H- :

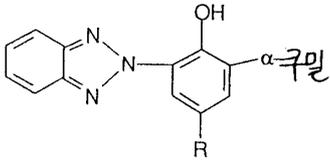
피크번호	2θ	피크번호	2θ	피크번호	2θ	피크번호	2θ
1	9.6	2	10.2	3	10.4	4	10.8
5	12.8	6	13.8	7	14.2	8	14.8
9	15.0	10	16.4	11	16.8	12	17.8
13	18.0	14	18.6	15	19.0	16	19.4
17	19.8	18	20.2	19	20.6	20	21.2
21	21.4	22	23.0	23	23.4	24	24.6
25	26.0	26	28.0	27	29.0	28	30.4
29	31.0						

2.

2-(2- -3- - -5-t-)-2H-

3.

R , -CH_m CH_{2m} COOR₄ (m 1 4, R₄ 1 18)



4.

3, R, -CH_mCH_{2m}COOR₄ (m = 2, R₄ = 1, 12)

5.

2-(2-(3-(5-t)-)-)-2H- ; 2-(2-(3-(5-t)-)-)-2H- 가

6.

(a) ;
 (b) 1, 2, 2-(2-(3-(5-t)-)-)-2H- ; 2-(2-(3-(5-t)-)-)-2H- R-CH_mCH_{2m}COOR₄ (R₄ = 1, 18, m = 1, 4)

