

(19) (KR)  
(12) (B1)

(51) 。 Int. Cl.<sup>6</sup>  
C07C 69/40

(45)  
(11)  
(24)

2004 09 08  
10-0431907  
2004 05 06

(21)	10-1996-0041862	(65)	10-1997-0015561
(22)	1996 09 24	(43)	1997 04 28

(30)	60/004237	1995 09 25	(US)
	60/022339	1996 07 24	(US)

(73)	-4057	141
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(72)	, 19703	1006
	, 19802	7038
	III, 19808	212

(74)

:

(54)

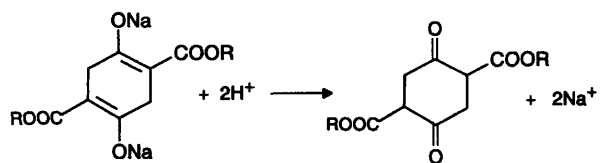
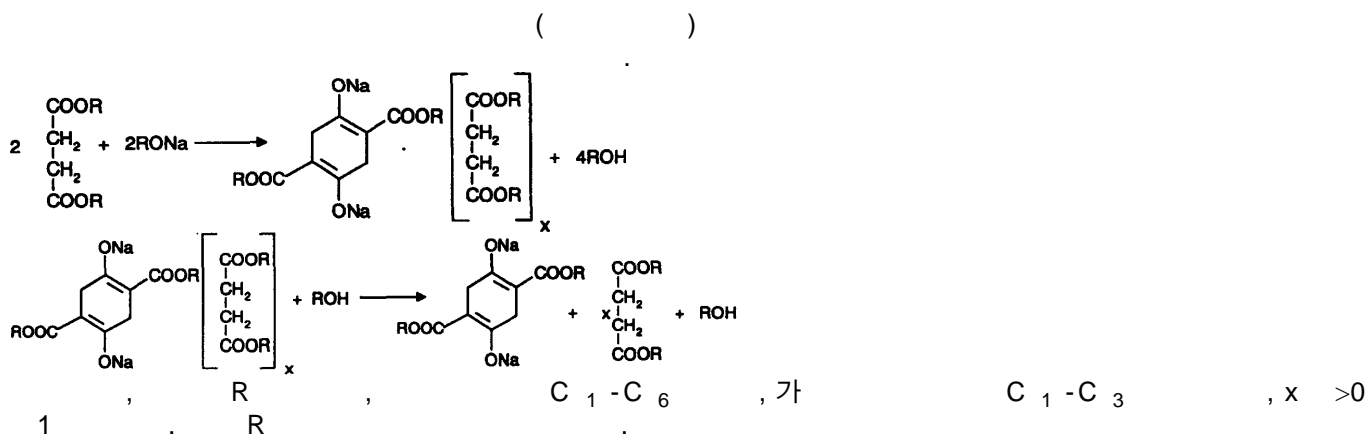
( ) , ,  
.  
.

( ) , ;  
 ( ) - ;  
 가  
 가  
 -2,5- -3,6-  
 -1,4- -2,5-

, US 4,435,589 120 180%  
 가

5 45% , EP-A 166,214  
 가

(a) , ( ) ; (b)  
 ; (c) ( )  
 ; (d) ( )



가  
 가  
 가  
 85 %

(b)

(c)

가

가

85%

$$\left( \begin{array}{l} = 228 \\ = 146 \\ = 54 \end{array} \right)$$

$$\begin{array}{l} (100\% ) = A \\ (10\% ) = B \end{array}$$

$$\begin{array}{l} (100\% ) = y \\ = z \end{array}$$

가

가

$$\begin{array}{l} = A - z \\ = (228/108) \times B \\ = (228/292) \times (A - z) \\ \text{실제 수율 (y)} \end{array}$$

$$\text{디메틸 숙시닐숙시네이트의 백분율 수율} = \frac{\text{이론 수율}}{\text{실제 수율}} \times 100$$

$$\left( \begin{array}{l} (b) \\ (c) \end{array} \right)$$

(c)

(i)

(b) (c)

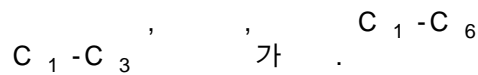
가

(c)

(ii)

( )

가



가

, 60 140 , 90 110 가

0.13 0.66 bar (100 500 mmHg)

가

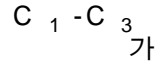
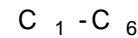
( ) 1

4

가 가

가

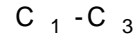
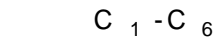
가



가

가

(a)



가

가

10 50 %

25 35 %

1 0.1 0.5 , 0.2 0.4

가

가

가

가

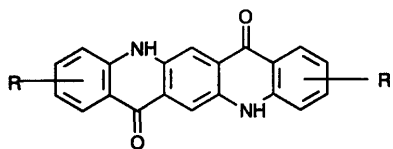
가

가

가

(b) , , 0.13 0.66 bar (100 500 mmHg),  
0.33 0.66 bar (250 500 mmHg)  
b) (a) 가  
( ) 가 80 90 110  
( )  
( )  
( )  
(a) , , 80 , 30 90 , 110 , 45 2  
(b) ( )  
( ) -  
( ) 가 , 1000 2000 cm<sup>-1</sup>  
(cm<sup>-1</sup>)  
1742 1740  
1654 1646  
1520 1518  
1434 1440  
1386 1386  
1326 1322  
1244 1252  
1182 1196  
1162 1164  
1074 1078  
1004 1002  
가 ( ) 2  
2 ( ) 2 (a) 2  
3 10 5 8 2  
30 120 가 90 110 30 50 (c)  
( < 30 )  
(c) (nutsch) (c) 2 (c)  
( )  
(c) 가 ( )  
가  
가  
가  
가  
1- 2- C<sub>1</sub>-C<sub>3</sub> C<sub>1</sub>-C<sub>6</sub> 가 (a)





, R , C<sub>1</sub>-C<sub>6</sub> , C<sub>1</sub>-C<sub>6</sub> , C<sub>1</sub>-C<sub>6</sub> , C<sub>1</sub>-C<sub>6</sub> , C<sub>1</sub>-C<sub>6</sub> (a)

, -COOR<sub>1</sub> ( , R<sub>1</sub> , C<sub>1</sub>-C<sub>6</sub> ) ; , -OH, -COOR<sub>1</sub> ; (c) ( ) ; (b) ( ) ; (d) ; (e)

, 2,9- , 2,9- , 4,11- (a)-(d) . (e) , (aa) 2,5- -3,6- 250 ; (bb) (aa) ; (cc)

) 가 (bb) (aa) , 2,9- , - 2,9- , - 2,9-

1 30 (126.5 g, 3.95 ) 30% (55.0 g, 1.02 ) 105 ( ± 5 ) 0.46 0.53 bar (350 400 mmHg) 2 가

(493.9 g, 3.38 ) 가 . 가

, 가 1 (320 g, 10.0 ) 30

(Buchner) , 0.3%

. 15% (332.7 g, 0.51 )

. 30 35 1 , 0.5% , pH가 6.0 , 가

5% . 100% DMSS , 86%

2 가 1 1 87.5%

3 30 (126.5 g, 3.95 ) 30% (55.5 g, 98.6%, 1.01 ) 105 0.53 bar (400 mmHg) 1 (385.1 g, 98.7%, 2.60 ) 가

, 196 g ( 3.8% 50 (444 g, 13.9 ) , 25

30

0.3% (475 g, 14.8 )

- (328 g, 0.50 ) . 30 35 1 , 15%

0.5% , pH가 6.0 , 가 5%  
 30 35 99.5% 99.3 g 86%

4  
 30 (400.1 g, 98.7%, 2.7 ) (13 g, 0.4 )  
 (83.4 g, 0.57 ) (22.1 g, 0.96 ) 1.5  
 가 45 76 가 , 2  
 가 (200 g, 1.38 ). 가  
 (400 g, 12.5 ), 30 , , 15% (330 g) 가 , 24  
 , , 81%

5  
 (165.56 kg, 2.5 kg (365 lb, 2.5 lb )) 378 (100 )  
 , , 100 105 가 . 0.47 bar (14 in. Hg)  
 (180 lb, 1.0 lb )) 0.34 kg/ (0.75 lb/ ) 가 . (81.64 kg, 1.0 kg  
 ) 가 105  
 , 가 , 1 , 25 (181.46 kg (400 l  
 b)) 2 , (22.67 kg (50 lb))  
 , 1 0.3%  
 가 , 25 15% (251.74 kg (555 lb))  
 가 . pH >6.0 , 가 5%  
 , 85% 가

6  
 5 (22.8 g, 0.1 ) 90 THERMINOL VP-1 (  
 , 129.2 g) , 90 0.13 bar (100 mmHg) 1  
 (23.25 g, 0.25 ), THERMINOL VP-1(85 g) (0.5 g) 가  
 , 0.01 bar (15 mmHg)  
 , THERMINOL VP-1 0.1%  
 THERMINOL VP-1 2,5- -3,6-  
 THERMINOL VP-1 10% , 160 170 가  
 THERMINOL VP-1 3 가 , 1  
 THERMINOL VP-1 180 THERMINO  
 L VP-1 , 50% 30 g (120 g)  
 , 96% (18 g) 가 , 45 . 45 55 1 m  
 (3 g) 가 , (33 g) 가 , 가 . 1  
 (17.25 g) 가 , (19.5 g) 가 , 3  
 가 60 , pH가 8.5 , 가 1  
 0% 93% r-

7  
 6 p- 2,9-  
 . 2,9- (40 g) (160 g), 45% (160 g) 가  
 , 50 60 15 m- (23 g) 가 , (26 g) 가  
 , 가 3 , 가 60  
 , 8.5 pH 가 10%  
 2,9- 92% .

가

85 %

(57)

1.

(a) , ( ) ; (b) ; (c) ( ) ; (d) ( ) .

2.

1 , 가 C<sub>1</sub>-C<sub>3</sub> 가 ,

3.

1 , 가 C<sub>1</sub>-C<sub>3</sub> .

4.

1 , (a) C<sub>1</sub>-C<sub>3</sub> .

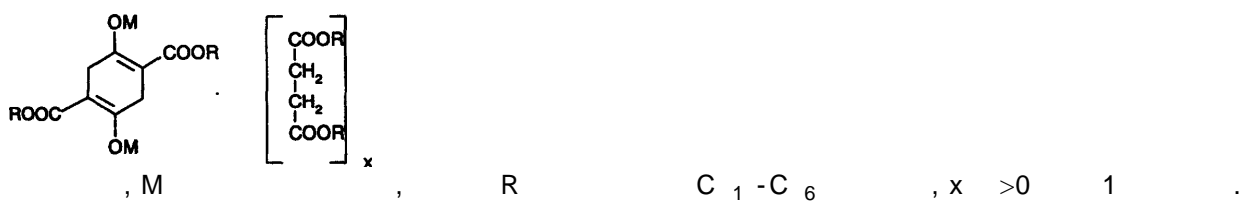
5.

1 , , 가

6.

1 , (a) ( ) (b) ( )<sup>2</sup> , (c) ( ) .

7.



8.

(a) , ( ) ; (b) ; (c) ( ) ; (d) ( ) ; (e) .

