

(19)
(12)

(KR)
(B1)

(51) . Int. Cl.⁶
C07C 69/40

(45) 2004 09 08
(11) 10-0431907
(24) 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	
------	---------	-----	--

(72)	, 19703	1006	
------	---------	------	--

	, 19802	7038	
--	---------	------	--

	III, 19808	212	
--	------------	-----	--

(74)

(54)

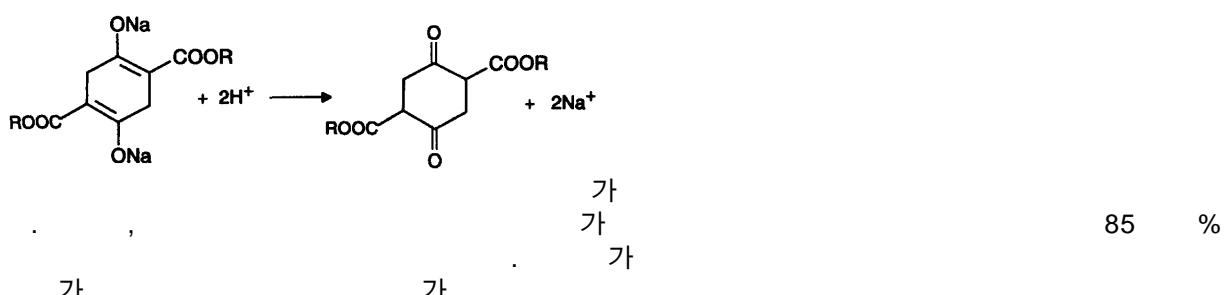
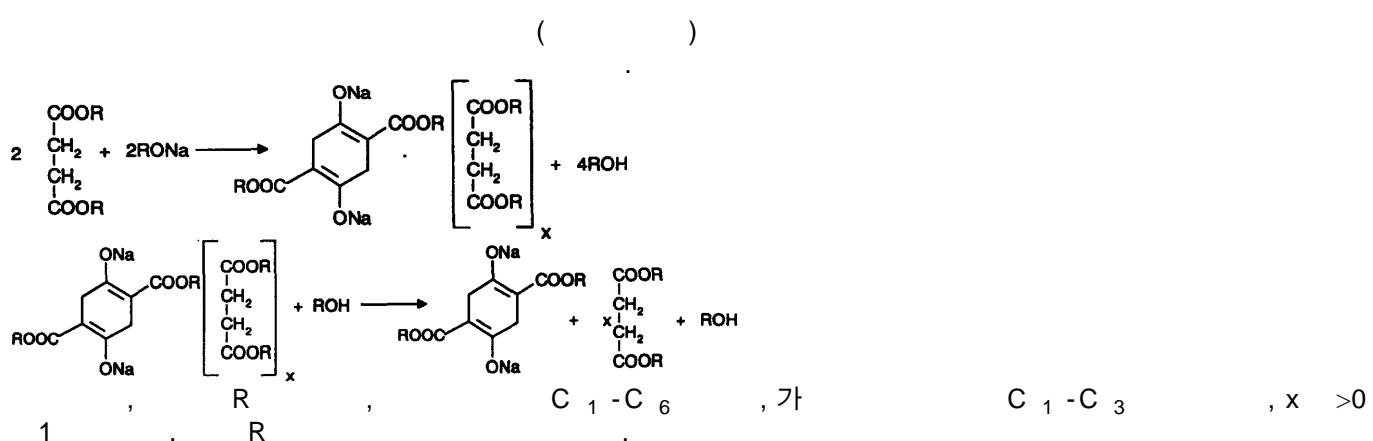
() ,
.

() ,
() - ;
가 .
가

, US 4,435,589 120 180%
가

5 45% , EP - A 166,214

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



(b)

(c)

가

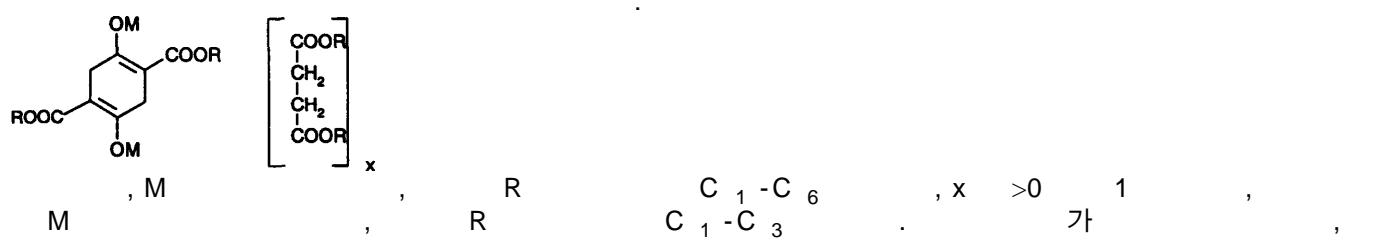
$$\begin{aligned}
 & \text{가} \quad , \quad 85\% \\
 , \quad (& \quad = 146) \quad (& \quad = 54) \\
 (& \quad = 228) \quad : \\
 & (100\% \quad) = A \\
 & (10\% \quad) = B \\
 & (100\% \quad) = y \\
 & \quad \quad \quad = z \\
 & \text{가} \quad = A - z \\
 & \quad \quad \quad = (228/108) \times B \\
 & \quad \quad \quad = (228/292) \times (A - z) \\
 & \quad \quad \quad \text{실제 수율 (y)}
 \end{aligned}$$

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

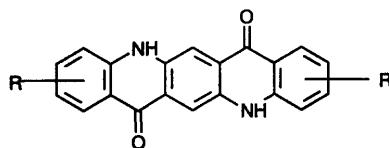
(b) (c)) (b) (c)) , (c) (b) (c)) , (c) .

가	,	$C_1 - C_3$,	가	.	$C_1 - C_6$
,	, 60	140	,	90	110	가
		0.13		0.66 bar (100)		500 mmHg

가	가	가	
가	$C_1 - C_3$	$C_1 - C_6$	
(a)	1-	2-	$C_1 - C_3$
가	가	가	$C_1 - C_6$
가	$C_1 - C_3$	$C_1 - C_6$	10 50 %
1	0.1	0.5	25 35 %
0.2	0.4		



가



$$\begin{array}{c}
 , \quad \quad \quad R \\
 , -COOR_1 (, R_1 \\
 , , -OH, -COOR_2
 \end{array}$$

; (c)

, 2,9- , 2,9- , 4,11-
(d) (e) (aa)

(a)-(d) ; (bb) (aa) , 2,5- , (aa) - 3,6- () 250
) 가 ; (cc) (bb)

(aa) , , - 2,9 -

50 , , 1 30
가 1 (320 g. 10.0)

30 35 , 1 , 15% (332.7 g, 0.51)

5% 0.5%, pH가 6.0, 가

100% DMSS 86%

z 가 1

87.5% .

30 (126.5 g, 3.95) 30% (55.5 g)

0.53 bar (400 mmHg) 1

98.7%, 2.60) 가 .

196 g (

50 , (444 g, 13.9

(475 g, 14.8

(237 g, 7.4) ,
235 25 1

4	30	0.5%	35	99.5%	, pH가 6.0	50	5%
가	30	(83.4 g, 0.57)	45	(400.1 g, 98.7%, 2.7)	(22.1 g, 0.96)	(13 g, 0.4)	1.5
가	(400 g, 12.5),	30	76	가 2	(200 g, 1.38).	15%	24
,	,	,	,	,	,	(330 g) 가	81%
5	(165.56 kg, 2.5 kg , 100	(365 lb, 2.5 lb 가)	378 (100 . 0.47 bar (14 in. Hg)	30%	(81.64 kg, 1.0 kg		
,	(180 lb, 1.0 lb))	105	0.34 kg/ (0.75 lb/)	가	(105	
b))	2	1	90	, 25			
,							
가	1	0.3%					
가	pH >6.0	5%	25	15%	(251.74 kg (555 lb))		
,							
85%							
6	5	(22.8 g, 0.1)	90	THERMINOL VP-1 (
,	, 129.2 g)	, 90	0.13 bar (100 mmHg)	(0.5 g)	1		
가	(23.25 g, 0.25), THERMINOL VP-1(85 g)		0.01 bar (15 mmHg)				
,							
가	THERMINOL VP-1			0.1%			
,	THERMINOL VP-1			2,5-			
가	THERMINOL VP-1	10%		170	-3,6-		
,				THERMINOL VP-1 3	가		
가	THERMINOL VP-1			1			
180							
L VP-1							
, 50%	(18 g)	30 g					
가	(3 g) 가	45					
0%	(17.25 g) 가	(33 g) 가					
가	(19.5 g) 가	3					
60	60	60	pH가 8.5	45	55	1	m
93%							
7	6	2,9-	15	p- (40 g)	2,9-	(160 g), 45%	(160 g) 가
,	50	60	15	m-	(23 g) 가	(23 g) 가	(26 g) 가
,				3	가	60	
,				pH			
92%				2,9-			

가 85 %

(57)

1.

(a)

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

2.

1

가

C₁-C₃

가

3.

1

가 C₁-C₃

4.

1

C₁-C₃

5.

1

가

6.

1

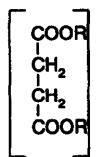
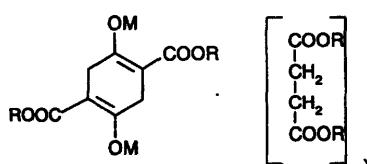
() (b)

2

(c)

(a)

7.



8.

(a)

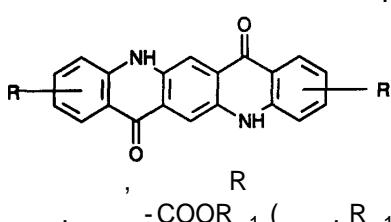
, ; (c)

() (b)

)

; (d)

; (e)



, -COOR₁ (, R₁) C₁-C₆ C₁-C₆