

(19)  
(12)

(KR)  
(B1)

(51) 。 Int. Cl.<sup>6</sup>  
C07C 57/30

(45)  
(11)  
(24)

2004 11 16  
10-0448640  
2004 09 03

(21) 10-1997-0036936  
(22) 1997 08 01

(65)  
(43)

10-1999-0015049  
1999 03 05

(73) 1-23

(72) 5 607

384-1 103 703

103 504

143 101 1003

2 1359-21 202

10-108

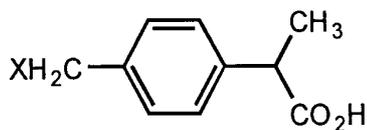
(74)

:

(54)

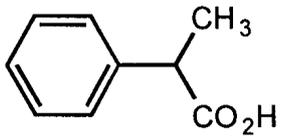
1 2-(4-<sup>2</sup> 2- )

[ 1]

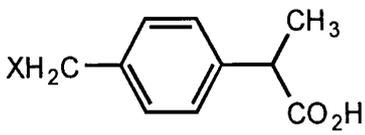


1 X ,

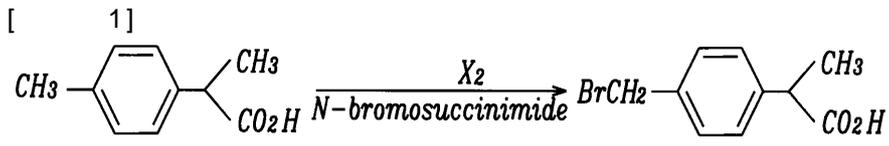
[ 2]



[ 2-(4- ) ]  
 [ 1 ] 2-(4- )



[ 1 ] X ,  
 [ 2-(4- ) ]  
 (4- ) 1 . 87-129250



[ 1 ] X ,  
 (AlCl<sub>3</sub>) 81-13840 2-(4- )  
 (SnCl<sub>4</sub>) (methylal, CH<sub>2</sub>(OCH<sub>3</sub>)<sub>2</sub>)  
 2-(4- ) 가  
 2-(4- )  
 2- 가  
 2-(2- )

- ) 가 2-(4

[ ]

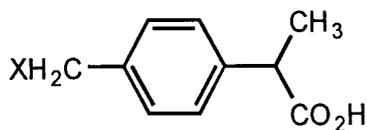
가 2-

2-(4- )

2 2-

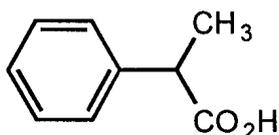
1 2-(4- )

[ 1]



1 X ,

[ 2]

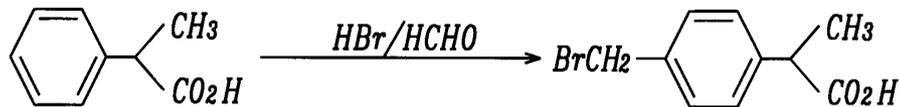


2-(4- )

2-

2 2-(4- ) 2

[ 2]



(trioxane, (CH<sub>2</sub>O)<sub>3</sub>)

10

1 4 1 10 1

가

1 20 , 가

20 5 10

2

, 1,2-

, 1,4-

, N,N-

, p-

2

0 50

50

40 140

2 30

, 가

80 120 10 15

1

가

[ ]

1  
2-(4- )  
2- 30g

21g 35%  
230g

116g 가 100 10  
230g 가

260g 가

32.1g

81% , HPLC

98.0% . NMR

NMR(CDCl<sub>3</sub>, ppm): 1.5(3H, d), 3.7(1H, q), 4.7(2H, s), 7.3(4H, dd)

2  
2-(4- )

2- 가 30g 8 30g 가 100 가 200g 83g 3 200  
 g 가 8g 84% 300g 가 , HPLC 98.0% . NMR 40.

NMR(CDCl<sub>3</sub>, ppm): 1.5(3H, d), 3.7(1H, q), 4.5(2H, s), 7.3(4H, dd)

3

2-(4- )

2- 30g 40g, 47%- 150g, 24g 가 100 10  
 200g 가 40.6g .

70% , HPLC 97.0% . NMR

NMR(CDCl<sub>3</sub>, ppm): 1.5(3H, d), 3.7(1H, q), 4.3(2H, s), 7.3(4H, dd)

1

2-(4- )

81-13840 20Mℓ 10g  
 25g 가 -5 , 9.5g 30 가 2-  
 가 8.2g 20 가 , 7 50Mℓ  
 , 5%- , 32% , HPLC 83.2%  
 3.5g

2

2-(4- )

87-129250 87-155237 2-(4- )  
 가 , 2-(4- ) 9.9g 100Mℓ N- 13.9g 0.2g  
 가 가 7 n- : =4:1 20Mℓ 가 .  
 7.4% 9.8g 61% , HPLC 8

1 3 1 2 2-(4- )  
 1

[ 1 ]

		(%)	(%)
1	2-(4- )	81	98.0
2	2-(4- )	84	98.0
3	2-(4- )	70	97.0
1	2-(4- )	32	83.2
2	2-(4- )	61	87.4

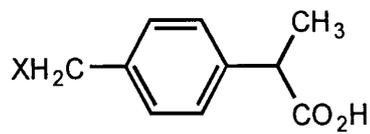
2-(4-

)

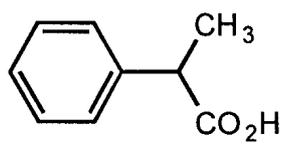
가 2 2-

(57)

1.  
2  
;  
[ 1] 1 2-(4- )



[ 2] 1 X ,



2.  
1 , , 2- , , 1 10 , .  
3.  
1 , , 2- , , 1 20 , .  
4.  
1 , , 2- , 1,4- , , N,N- , , 1,2- , , p- , .  
5.  
1 , , 40 140 2 30 0 50 , .