

(19)
(12)

(KR)
(A)

(51) 。 Int. Cl. ⁷
C07D 231/14

(11)
(43)

2001 - 0072709
2001 07 31

(21)	10 - 2001 - 7002014
(22)	2001 02 16
	2001 02 16
(86)	PCT/EP1999/05641
(86)	1999 08 04

(87)	WO 2000/10978
(87)	2000 03 02

(81)

:

EP :

:

(30) 19837067.9 1998 08 17 (DE)

(71)

- 51368

(72)

,	- 40789	52
,	- 42113	112

(74)

1

2

(54) 1 - - - 5 -

2,4 - () () , 가
() , 90%
1 - - - 3 - 1 - - - 5 - III

1 - - -5 - , , ,

2,4 - 1 - -, 1,3 - - -5 -
2,4 -

2,4 - 1 - - -5 -

, , 2,4 -
- 1,5 - - -3 - 2,5 -
1:1 [Austr. J. Chem.36, 135 - 147 (1983)]. 35:65
[Chem. Ber.59, 1282 (1926)],
O -
(15:85).

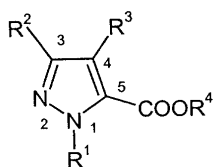
EP - A 029 363

N - - , N -
가 1,5 - 가 1,3 - ,
(,)

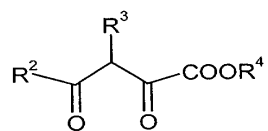
EP - A 854 142 , 1 - - -5 - 2,4 -

, 1,3 - 가 , 1 - - -5 -

III , II 2,4 - () III
() , 90%
I 1 - - -5 -



II



III



,

R^1 R^4 $\text{C}_7 - \text{C}_{12}$ - ; $\text{C}_1 - \text{C}_6$ - , $\text{C}_3 - \text{C}_7$ -

R^2 R^3 , $\text{C}_3 - \text{C}_7$ - $\text{C}_7 - \text{C}_{12}$ - $\text{C}_1 - \text{C}_6$ - ,

$\text{C}_7 - \text{C}_{12}$ - () $\text{C}_6 - \text{C}_{10}$ - () () ()
2 $\text{C}_1 - \text{C}_4$ - .

II R^2 R^3 , R^4 가 $\text{C}_1 - \text{C}_4$ -
- , $\text{C}_3 - \text{C}_6$ - $\text{C}_1 - \text{C}_4$ - .

R^2 R^4 가 $\text{C}_1 - \text{C}_4$ - R^3 H II 2,4 - 가 .

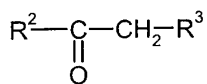
III , R^1 $\text{C}_1 - \text{C}_4$ -

.

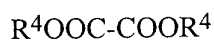
II IV V

.

IV



V



,

R^2 , R^3 R^4 I .

II

[Organicum, 16, 1976, p.472].

IV

V

, i -

n -, i -, s -

t -

, n -

II

III

90%

III

95

100%

" x% "

II

x%가

가

III

II

가

III

100%

III

10 20 %

가

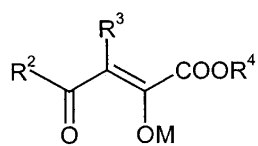
가

가

II

VI

VI

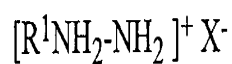
 R^2, R^3 R^4

I

M

VII

VII

 R^1

I

X^- .
 $C_1 - C_{10} - X^-$, $C_6 - C_{12} - X^-$, $R^5 COO^- \{ R^5$
 COO^- , R^5 가 , COO^- 가 $COOH$
가 ,
III
가 , III
V , VI , III , IV
VII , VI , VII
III , I
, VII , III , VI , 가 , 가
() , 가
0 1000 Mℓ , 1 + 250 500 Mℓ . 100 + 2000 Mℓ . 10 60 20 % ,
15 40 %
III , VII 0.1 200 % 1 III 50 % ,
5 20 %
VI , IV 90 %
II , IV , V
1 10 % , IV VIII ,

VIII



,
M VI ,
R⁶ C₁ - C₄ - ,
n M 가 .
0.9 1.1 V 0.9 1.1 IV 0.9 0.99 VIII
가 .
III , 2가 R⁵COOH VII 1 200 % III
.
, 가 R⁵COOH VI
.
50 가 -20 +100 . 0 80 가 , 0
8 (= " " +) 0.5 12 . 1
, 2 5 .
2,4 - : , , 2,4 -
2,4 - , 2,4 - , 2,4 -
, 2,4 - 2,4 - - 3 - (,
, , n - , i - n - , i - , s - t - .
III - , - , n - - , i - - , n - - , t - - , - n -
.
2,4 -
:
, 2,4 -
2 -
, ([Organicum, 19 , p.4
90 (1993)]). 50 , 1
(1.1:1) 가 . , ,

가 , 가 (), 가 , 가 () , 2 가 .

1 - - -5 - (= "1 -
- -3 - ") 8 , 10

1 - - -5 -

III

(), 가 I
가 .

I 1 - - -5 - ()
(463 756 , 526 004 , WO 94/28902
19 27 429) , (89 - 114 466)

1 1

10.4 g 50 Mℓ , 50 Mℓ 2,4 -
42.9 g , 5 10 (가 : 10).
가 30 5 10 ,
1 - -3 - n - - -5 - 125 128 (13 mm)
78.3% 가 (166 168 /13 mm), (= " " 1 - -5 - n -
- -3 -) 7.9% ,
10:1 .

2 2()

1 2,4 - 42.9 g 50 Mℓ ,
10.4 g 5 10 가 1
40.5% 1 - -3 - n - - -5 -
51% 1 - -5 - n - - -3 -
5:4 .

3 3

1462 g 1 4 , - 2 - 776 g 가 . 25 40
 20 % 3400 g 1 .
 50 1 , 50
 506 g (10.95) 600 g (10) 5
 30 1 가 , 10 50
 2,4 - 2 가 ,
 8 15 45 55 . 가가 , 가
 60 g 가 , 가 88
 2000 Mℓ, 5000 Mℓ, (Mersolat() H30) 500 g 20 g
 200 Mℓ , 5 % 2000 g 20
 00 Mℓ 60 mbar 가 70
 74.7 % 1 - - 3 - n - - 5 - 5.8 % 1 - - 5 - n -
 - - 3 - 1748 g , 73.9%
 . 13:1 .

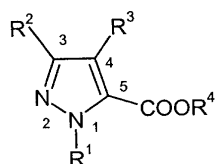
1 11 mbar 121 (GC)가 99.9% 1152
 g . 65% .

(57)

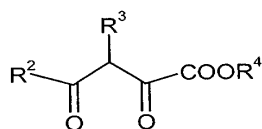
1.

II 2,4 - () III ()
 , () , 90% III
 I 1 - - - 5 -
 .

< I >



< II >



< III >



,

R^1 R^4
 $-C_7-$ $C_7-C_{12}-$; C_1-C_6- , C_3

R^2 R^3
 $C_7-C_{12}-$, C_1-C_6- , C_3-C_7-

2.

1 ,

R^1 C_1-C_4- ,

R^2 R^3
 C_3-C_6- , C_1-C_4- ,

R^4 C_1-C_4- .

3.

1 2 , 95 100% III .

4.

1 2 , III , II
 가 .

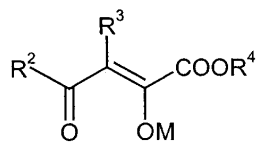
5.

1 3 , ,
 가 .

6.

1 5 , II VI
 .

< VI >



,

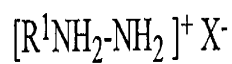
R^2 , R^3 R^4 1 I ,

M

7.

1 6 , VII .

< VII >



,

R^1 1 I ,

X^- .

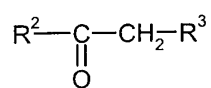
8.

1 7 , 2,4 - IV V

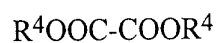
III

VII

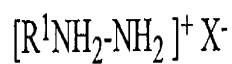
< IV >



< V >



< VII >



,

R^1, R^2, R^3 R^4 1 I ,

X .

9.

1 8 , III 0.1 200 % III , ,
.

10.

1 9 + , - 20 +100 0.5 12 (= "
"