

(19)
(12)(KR)
(B1)(51) 。 Int. Cl. ⁶
C07D 213/26(45)
(11)
(24)2002 08 13
10 - 0329100
2002 03 06(21) 10 - 1994 - 0015243
(22) 1994 06 29(65) 1995 - 0003273
(43) 1995 02 16

(30) P4322054.1 1993 07 02 (DE)

(73)
- 51368(72)
51519 18
51373 - - 321
-
42329 35

(74)

:

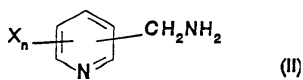
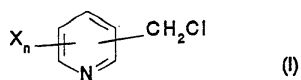
(54)

(II)

- 20

+ 50

(I)



,
 n 0, 1, 2 3 ,
 (I) X ,
 (II) X .

(: J. Heterocycl. Chem. 16(1979), 333 - 337; 373464).

100

458109).

(:

260485

0

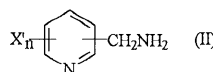
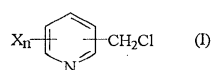
393453).

(:

(I)
 - 20 + 50

(II)
 (nitrosating)

:



n 0, 1, 2 3 ,
 X ,
 X' .

가

+50 , - 10 +40 . - 20

0.1 10

(II) 1 1 5 , 2 3

(II)

가

(II)

가

()

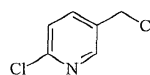
(I)

가

(I)

(: 163855 192060).

1

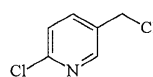


50Mℓ 10.0g (70 mmol) 9.2 g (141 mmol) 10 200Mℓ
 2 - - 5 - 가 2 가 90 가
 pH 7 20 가 2 100Mℓ 가 2
 50Mℓ

3.5g(35%) 2 - - 5 - - 6.8 g(60%) 2 - - 5 - -

2 - - 5 - - (:
373464) 2 - - 5 - -

2

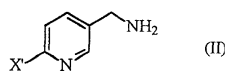
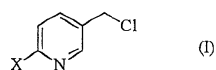


25Mℓ N,N, - - 20 가 N,N, - -
200Mℓ , - 10 , 20Mℓ 가 .
0 , 100Mℓ N,N, - - 17.3g(122 mmol) 2 - - 5 -
- 가 . (20) , 가 1 .
- , 50Mℓ 0.2 N 가 150Mℓ
14g (¹H - NMR 85% 2 - - 5 - -
60%).

(57)

1.

(II) , (I) - 20 +50
:



X ,

X' .

2.

1 , X X'가 - 10 +40 .

3.

$$2 \quad , \quad +10 \quad +20 \quad .$$

4.

2, -10 +20.