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 94 - 245991 1994 10 12 (JP)

(73) 가가 가 가
 4 5 33

(72) 15 - 10 - 306

가 2 2 - 26 - 402

가 2 - 10 - 3 - 336

4 - 7 - 2

(74)

:

(54) 3,4 -

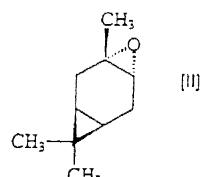
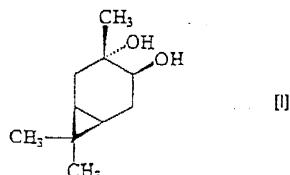
3 - 3,4 - 가
 3,4 - , (I) 3,4 -

3,4 -

(I) 3,4 -
 3) . , 3 - 3,4 - 3,4 - (: 5 - 4901/199
 , (I) , , m -
 , , , 3,4 -

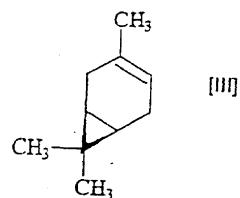
, / (I)
 3,4 -

, 3,4 - (II) 3,4 -
 , (I) 3,4 -



(I) (II) V

, (a) (III) 3 - (b) 3,4 - (II) 3,4 -
 (I) 3,4 - , (I) 3,4 -



, (a) (III) 3 - 가
(II) 3,4 - (b) 3,4 - 가 , (I) 3,4 -

, 3 - (II) 3,4 -
3,4 - (I) .

(I) 3,4 - , (III) 3 - , V / (II) 3,4 - (I) 3,4 - , (III) 3 - , (II) 3,4 - , (II) 3,4 -

, 3,4 - 가 (l) 3,4 - .

100 200 , 120 180

5 15kg/cm² (G)

(II) 1 1 3 , 10 3 50% , 3,4 -

(1) 3,4 - , , , , /

(a) 25 60%, 35 50%

(III) 3 - 1:1 2:1, 1:1 1.2:1

50:50 90:10

가 .

0 . 0 10

3,4- (II) , ,
 Na_2SO_3 , NaOCl , $\text{Na}_2\text{S}_2\text{O}_3$

(a)

80 , 55 65

, 25 75%, 35 60% 가

(III) 3 - 1mol 1.0 5.0mol, 1.5 2.
5mol .

, pH 7.5 8.0 (III) 3 -

pH , , , pH 가 .

(II) 3,4 -

, , 3 - ,
25 60%, 30 40%

(Widebore) GC HR - 2M (: 3m, : 0.53mm)

: 5 / 100 160

: 240

1

1	3,4 -	36g	30g	5%	70g	1
	(SUS - 316)	130 (4kg/cm ²)	20			
	50ml	,				

4 - 1S,3S,4S,6R - - 3,4 - (: 31 / : 40%), 1S,3R,4R,6R - - 3,
 (: 30 / : 4%) 1 가
 - 4 - : : 10.5 / : 32%)

6R - 3 -	- 4 -	13.5g, 105 / (10 12mmHg)	가 90% 1S,3S,4S,
- 3,4 -	1S,3R,4R,6R -	105 / (10 12mmHg)	가 10:1 1S,3S,4S,6R -
	- 3,4 -	16g	96%, (+) - 3 -
	60%	.	

, 1

2

1	3,4 -	36g	30g	5%	70g	
1	(SUS - 316)	160 (8kg/cm ²)	20			
	50ml	,				

4 - 1S,3S,4S,6R - - 3,4 - (: 31 / : 36%) 1S,3R,4R,6R - - 3,
 (: 30 / : 3%) 3,4 - (: 6.5 / : 50%)

1S,3R,4R,6R -	- 3,4 -	105 / 10 12mmHg	가 10:1 1S,3S,4S,6R - - 3,4 -
28%	.	13.6g	96%, (+) - 3 -
	, 80 / 10	12mmHg	16g

b

3

1	3,4 -	46g	5%	100g	1
(SUS - 316)	170 (6kg/cm ²)	20			
	50ml	,			

1S,3S,4S,6R - - 3,4 - (: 31 / : 27%) 1S,3R,4R,6R - - 3,
4 - (: 30 / : 3%) .

, 3,4 - (: 6.5 / : 60%)

145 / (10 12mmHg) 가 10:1 1S,3S,4S,6R - - 3,4 -
 1S,3R,4R,6R - - 3,4 - 10g . 96% (+) - 3 -
 19% . , 80 / (10 12mmHg) 3,4 - 22g . 1

2

(+) - 3 - 40.8g, 114g, 5g, 30.75g 0.1M Na₂HPO₄ 0.375
m1 500m1 5 . 50% 51g 40% 5m
| 6 가 60 18 .
Na₂SO₃ 15g 가 40

50g 가

2

(3,4 -) 42g 30g 5% 70g 1
 (SUS - 316) 170 (11kg/cm²) 20 .
 . 50ml , 41g

1S,3S,4S,6R - - 3,4 - (: 31 / : 80%) 1S,3R,4R,6R - - 3,
4 - (: 30 / : 7%) .

145 / (10 12mmHg) 가 10:1 1S,3S,4S,6R - - 3,4 -
 1S,3R,4R,6R - - 3,4 - 35g . 96% , (+) - 3 -
 60% .

3

(+) - 3 - 40.8g, 114g, 5g, 30.75g 0.1M Na₂HPO₄ 0.375ml
 500ml 5 . 60 40% 5ml
 가 pH 7.5 8.0 50% 51g 6 가 60

Na₂SO₄ 15g 가

간 40

50g 가

2

(SUS - 316) 42g 30g 5% 70g .
 170 (11kg/cm²) 20 .
 50ml 41g

1S,3S,4S,6R - - 3,4 - (: 30 / : 7%) (: 31 / : 73%), 1S,3R,4R,6R - - 3,4

1S,3R,4R,6R - - 3,4 - 145 / (10 12mmHg) 가 10:1 1S,3S,4S,6R - - 3,4 -
69% 35g 96% (+) - 3 -

4

200ml (+) - 3 - 40.8g 가 (5.5g, 18.5g 200
) 150mg 500ml 5 (3 가 97 가
3 - 2 가 4 37.5% 1.69%) 43.
2g

40% 150g 가 30 , 3 -

150g 가 , 2

3,4 - 42.3g

3,4 - 42g 30g 5% 70g 1 (SU
S - 316) 180 (11kg/cm²) 20 50ml , 37g

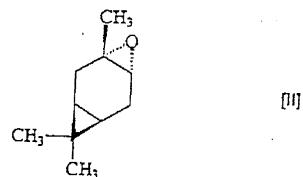
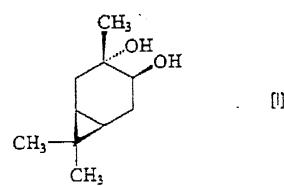
4 - 1S,3S,4S,6R - - 3,4 - (: 30 / : 8%) 1S,3R,4R,6R - - 3,
68%

145 / (10 12mmHg) 가 10:1 1S,3S,4S,6R - - 3,4 -
1S,3R,4R,6R - - 3,4 - 35g 96% (+) - 3 -

(57)

1.

(III) 3,4 - 가 , (I)
3,4 -



2.

(III) 3-

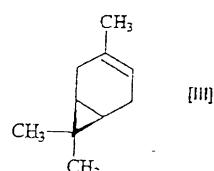
, 3,4 -

(I) 3,4 -

1

(II) 3,4 -

, 1



3.

(III) 3 -

, 3,4 -

1

가

(I) 3,4 -

1

(II) 3,4 -

,

4.

(III) 3 -

가

(II) 3,4 -

, 1

, 3,4 -

가

(I) 3,4 -

1

5.

2 , pH가 8 9

6.

3 ,

7.

3 , pH 7.5 8.0

8.

4 , 가
가 4 30

9.

4 , 가 4 가

10.

4 , 가 3 -

11.

1 10 , 가