

INDEX CHEMICUS

VOLUME TWO, NUMBER NINE

ISSUE 21

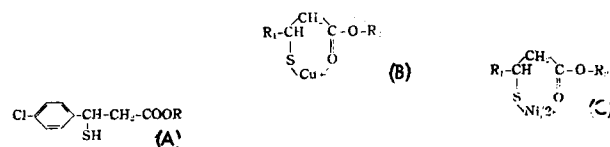
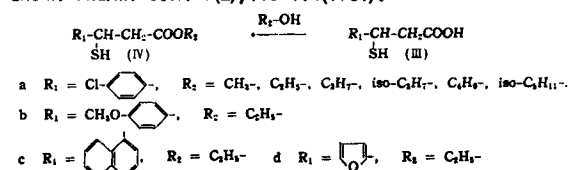
COMPOUND NUMBERS 7900-01 TO 8293-01

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STUDIES ON THE SULFUR-CONTAINING CHELATING AGENTS. VI. SYNTHESSES OF β -MERCAPTO-ACID ESTERS AND THEIR COPPER AND NICKEL CHELATES.

H. Tanaka, A. Yokoyama.
Kyoto Univ. Recd. May 19, 1960.
Chem. Pharm. Bull. 9(2), 110-114 (1961).

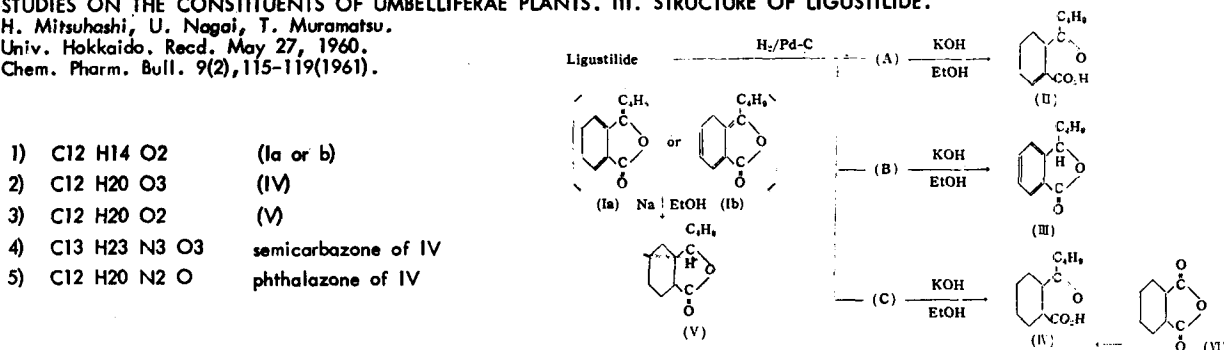


		R =					
1) C9 H9 CL O2 S	(IIIa)		15) C12 H14 CL Cu O2 S	(B)	p-Cl-Ph	Pr	
2) C10 H11 CL O2 S	(A)	Me	16) "	"	"	i-Pr	
3) C11 H13 CL O2 S	"	Et	17) C13 H16 CL Cu O2 S	"	"	Bu	
4) C12 H15 CL O2 S	"	Pr	18) C14 H18 CL Cu O2 S	"	"	i-Am	
5) "	"	i-Pr	19) C15 H15 Cu O2 S	"	(1-naphthyl)	Et	
6) C13 H17 CL O2 S	"	Bu	20) C9 H11 Cu O3 S	"	(2-furyl)	Et	
7) C14 H19 CL O2 S	"	i-Am	21) C20 H20 CL2 Ni O4 S2	(C)	p-Cl-Ph	Me	
8) C10 H12 O3 S	(IIIb)		22) C22 H24 CL2 Ni O4 S2	"	"	Et	
9) C13 H12 O2 S	(IIIc)		23) C24 H28 CL2 Ni O4 S2	"	"	Pr	
10) C15 H16 O2 S	(IVc)		24) "	"	"	i-Pr	
11) C7 H8 O3 S	(IIIId)		25) C26 H32 CL2 Ni O4 S2	"	"	Bu	
12) C9 H12 O3 S	(IVd)		26) C28 H36 CL2 Ni O4 S2	"	"	i-Am	
13) C10 H10 CL Cu O2 S	(B)	R ₁ = p-Cl-Ph	27) C30 H30 Ni O4 S2	"	(1-naphthyl)	Et	
14) C11 H12 CL Cu O2 S	"	R ₂ = Me	28) C18 H22 Ni O6 S2	"	(2-furyl)	Et	

7905

STUDIES ON THE CONSTITUENTS OF UMBELLIFERAE PLANTS. III. STRUCTURE OF LIGUSTILIDE.

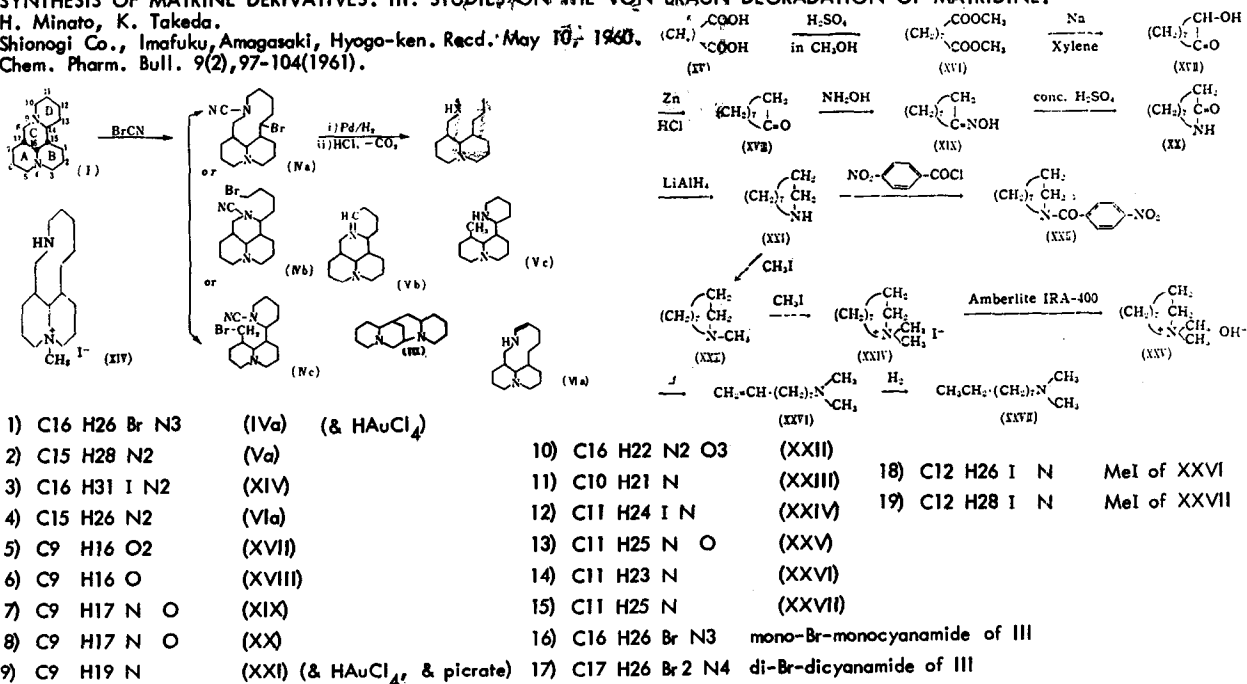
H. Mitsuhashi, U. Nagai, T. Muramatsu.
Univ. Hokkaido. Recd. May 27, 1960.
Chem. Pharm. Bull. 9(2), 115-119(1961).



7906

SYNTHESIS OF MATRINE DERIVATIVES. III. STUDIES ON THE VON BRAUN DEGRADATION OF MATRIDINE.

H. Minato, O. Takeda.
Shionogi Co., Imafuku, Amagasaki, Hyogo-ken. Recd. May 10, 1960.
Chem. Pharm. Bull. 9(2), 97-104(1961).

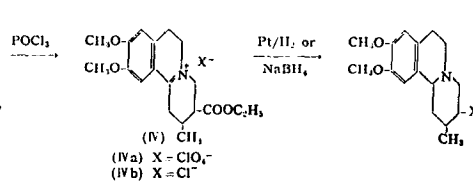
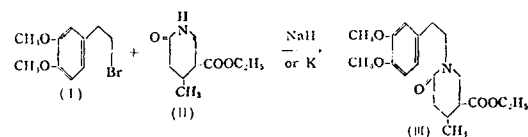


STUDIES ON THE SYNTHESIS OF HETEROCYCLIC COMPOUNDS. LXII. SYNTHESIS OF *rac*-TETRAHYDROROTUNDINE.

T. Kametani, Y. Nomura.

Tohoku Univ., Sendai. Recd. Nov. 17, 1960.

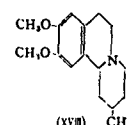
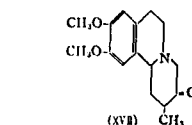
Chem. Pharm. Bull. 9(2), 139-145 (1960).



- (V) $X = \text{COOC}_2\text{H}_5$
 (Va) $X = \text{COOH}$
 (Vb) $X = \text{COOAg}$
 (Vc) $X = \text{Br}$
 (VI) $X = \text{CONHNH}_2$
 (VII) $X = \text{CON}_3$
 (VIII) $X = \text{NHCOOCH}_2\text{C}_6\text{H}_5$
 (IX) $X = \text{NH}_2$
 (X) $X = \text{OH}$
 (XI) $X = \text{OCH}_3$
 (XII) $X = \text{OSO}_2\text{CH}_3$

- | | | |
|--------------------|--------|-------------|
| 1) C19 H27 N O5 | (III) | p. 142 |
| 2) C19 H26 CL N O8 | (IVa) | p. 143 |
| 3) C19 H26 CL N O4 | (IVb) | |
| 4) C19 H27 N O4 | (V) | (& picrate) |
| 5) C17 H25 N3 O3 | (VI) | |
| 6) C17 H21 N3 O3 | (VII) | |
| 7) C24 H30 N2 O4 | (VIII) | |
| 8) C16 H24 N2 O2 | (IX) | (as HCl) |
| 9) C16 H23 N O3 | (X) | |

- | | | | | | | |
|-----|-----|-----|---|----|----|---------|
| 10) | C17 | H25 | N | O5 | S | (XII) |
| 11) | C17 | H25 | N | O3 | | (XI) |
| 12) | C16 | H21 | N | O2 | | (XVIII) |
| 13) | C16 | H21 | N | O3 | | (XVII) |
| 14) | C17 | H26 | I | N | O3 | |
| 15) | C18 | H28 | I | N | O5 | S |
| 16) | C18 | H28 | I | N | O3 | |
| 17) | C17 | H24 | I | N | O2 | |
| 18) | C17 | H24 | I | N | O3 | |



MeI of X

" XII

" XI

" XVIII

" XVII

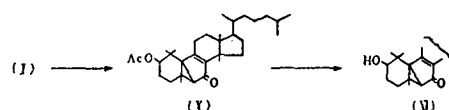
7913

STEROID STUDIES. XXVII. A NEW AROMATIZATION REACTION OF THE HOMOANNULAR DIENE SYSTEM. (1).
ON THE STRUCTURE OF THE PHENOLIC COMPOUND DERIVED FROM 3 β -ACETOXYLANOSTA-5,8-DIEN-7-ONE.

K. Tsuda, E. Ohki, J. Suzuki, H. Shimizu.

Inst. Appl. Microbiol. Univ. Tokyo, Recd. Oct. 24, 1960.

Chem. Pharm. Bull. 9(2), 131-138(1961).

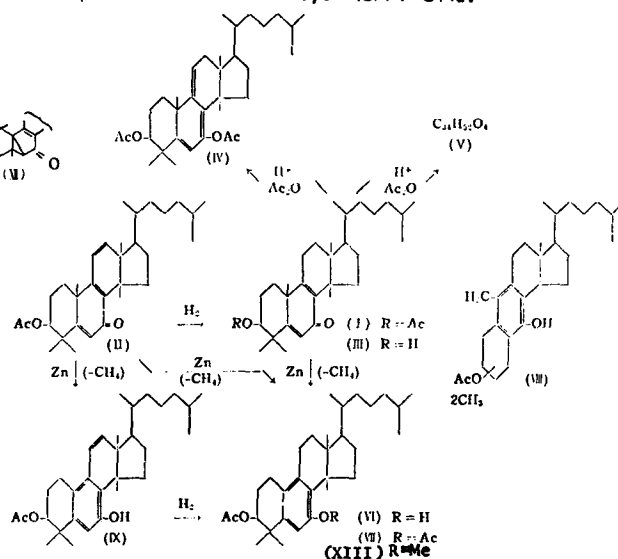


- | | |
|------------------|--------|
| 1) C32 H50 O3 | (I) |
| 2) C30 H48 O2 | (III) |
| 3) C30 H46 O2 | |
| 4) C34 H52 O4 | (IV) |
| 5) " | (V) |
| 6) C31 H48 O3 | (VI) |
| 7) C33 H50 O4 | (VII) |
| 8) C32 H50 O3 | (XIII) |
| 9) C30 H48 O2 | |
| 10) C30 H46 O2 | |
| 11) C30 H47 N O2 | |
| 12) C31 H46 O3 | (IX) |
| 13) C33 H48 O4 | |
| 14) C32 H50 O3 | (X) |

dione of III

3-OH deriv. of XIII
3-oxo deriv. of XIII
oxime of 10

Ac of IX



- 15) C30 H48 O2 (XI)
16) C30 H46 O2 (XII)

7914

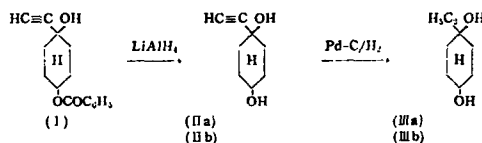
STUDIES ON THE CHEMICAL STRUCTURE OF MONOHYDROXY DERIVATIVE OF 1-ETHINYLCYCLOHEXYL CARBAMATE.

T. Murata.

Univ. Kumamoto. Recd. Nov. 25, 1960.

Chem. Pharm. Bull. 9(2) 169(1961).

- 1) C8 H12 O2 (IIb) p. 169
2) C8 H16 O2 (IIIb)



7915

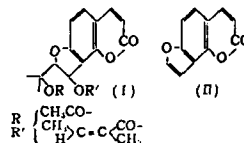
ON THE STRUCTURE OF EDULTIN.

H. Mitsuhashi, T. Itoh.

Fac. Pharm., Univ. Hokkaido, Recd. Dec. 8, 1960.

Chem. Pharm. Bull., 9(2) 170(1961).

- 1) C21 H22 O7 (I) p. 170
2) C11 H6 O3 (II)



7916

ISOLATION OF LYONIOL-A, -B, AND -C, THE TOXIC PRINCIPLES OF LYONIA OVALIFOLIA VAR. ELLIPTICA.

M. Yasue, Y. Kato, T. Kishida, H. Ota.

Nagoya City Univ. Recd. Dec. 30, 1960.

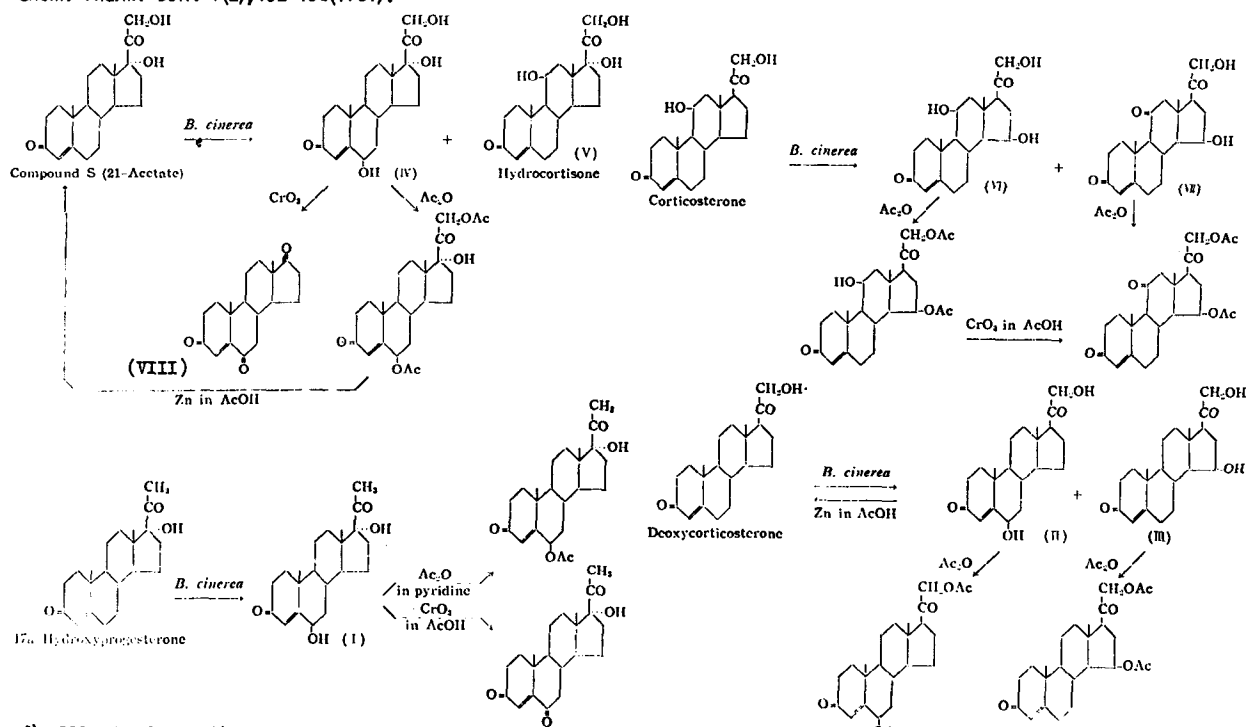
Chem. Pharm. Bull. 9(2) 171 (1961).

- | | | | | |
|---------------|-----------------|--------|---------------|-----------|
| 1) C22 H34 O7 | Lyoniol-A | p. 171 | 3) C20 H32 O6 | Lyoniol-B |
| 2) C20 H32 O6 | de-Ac-Lyoniol-A | | 4) C18 H30 O7 | Lyoniol-C |

7917

MICROBIOLOGICAL TRANSFORMATION OF STEROID. III. HYDROXYLATION OF STEROID BY BOTRYTIS CINEREA.

M. Shirasaka.

Sankyo Co., Tokyo. Recd. June 6, 1960.
Chem. Pharm. Bull. 9(2), 152-158(1961).

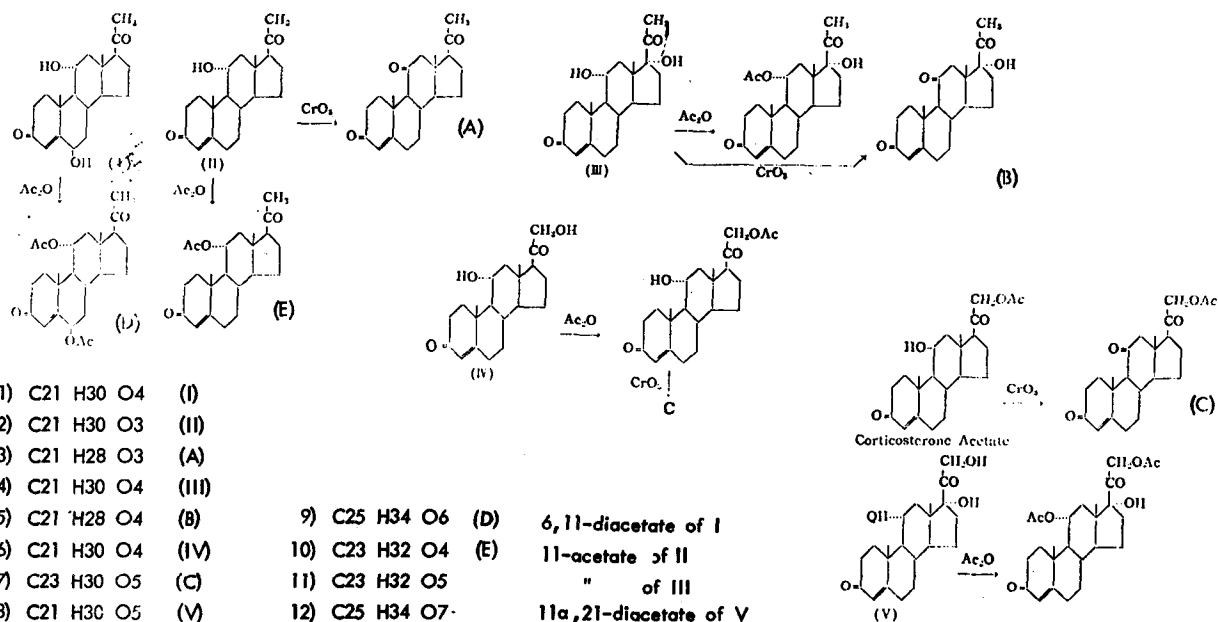
- | | | |
|---|--------|--------|
| 1) C ₂₁ H ₃₀ O ₄ | (I) | p. 156 |
| 2) " | (II) | p. 157 |
| 3) " | (III) | |
| 4) C ₂₁ H ₃₀ O ₅ | (IV) | |
| 5) C ₁₉ H ₂₄ O ₃ | (VIII) | p. 158 |
| 6) C ₂₁ H ₂₈ O ₅ | (VII) | |
| 7) C ₂₁ H ₃₀ O ₅ | (VI) | |

- | | |
|--|------------------------|
| 8) C ₂₃ H ₃₂ O ₅ | mono-acetate of I |
| 9) C ₂₁ H ₃₄ O ₆ | 6,21-diacetate of (II) |
| 10) " | 15,21- " (III) |
| 11) C ₂₅ H ₃₄ O ₇ | 6,21- " (IV) |
| 12) C ₂₅ H ₃₂ O ₇ | 15,21- " (VII) |
| 13) C ₂₅ H ₃₄ O ₇ | 15,21- " (VI) |

7918

MICROBIOLOGICAL TRANSFORMATION OF STEROID. IV. 11 α -HYDROXYLATION OF STEROID BY GLOEOSPORIUM KAKI AND GLOMERELLA LAGENARIUM.

M. Shirasaka, M. Tsuruta.

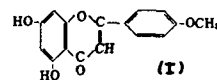
Sankyo Co., Tokyo. Recd. June 6, 1960.
Chem. Pharm. Bull. 9(2), 159-163(1961).

- | | | |
|--|-------|--------------------------------|
| 1) C ₂₁ H ₃₀ O ₄ | (I) | |
| 2) C ₂₁ H ₃₀ O ₃ | (II) | |
| 3) C ₂₁ H ₂₈ O ₃ | (A) | |
| 4) C ₂₁ H ₃₀ O ₄ | (III) | |
| 5) C ₂₁ H ₂₈ O ₄ | (B) | |
| 6) C ₂₁ H ₃₀ O ₄ | (IV) | |
| 7) C ₂₃ H ₃₀ O ₅ | (C) | |
| 8) C ₂₁ H ₃₀ O ₅ | (V) | |
| 9) C ₂₅ H ₃₄ O ₆ | (D) | 6,11-diacetate of I |
| 10) C ₂₃ H ₃₂ O ₄ | (E) | 11-acetate of II |
| 11) C ₂₃ H ₃₂ O ₅ | | " of III |
| 12) C ₂₅ H ₃₄ O ₇ | | 11 α ,21-diacetate of V |

7919

STUDIES ON THE CITRUS FLAVONOIDS. PART V. CHEMICAL STRUCTURE OF FLAVONOID PIGMENT "FORTUNELLIN" IN THE PEEL OF THE FRUIT OF KUMQUAT.
T. Nakabayashi. (Shizuoka Univ., Iwata) Recd. July 18, 1960. J. Ag. Chem. Soc. Japan (Nippon Nogei-Kagaku Kaishi) 35(1), 45-48(1961).

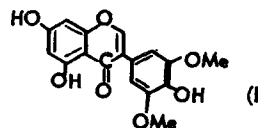
- 1) C₁₆ H₁₂ O₅ (I) acacetin p. 46
2) C₂₈ H₃₂ O₁₄ fortunellin (rhamnoglucoside of 1)



7920

STUDIES ON POLYPHENOLS OF RICE PLANT. PART II. SEPARATION AND IDENTIFICATION OF TRICIN.
S. Kuwatsuka, Y. Oshima. (Kyushu Univ.) Recd. July 27, 1960. J. Ag. Chem. Soc. Japan (Nippon Nogei-Kagaku Kaishi) 35(1), 71-75(1961).

- 1) C₁₇ H₁₄ O₇ (I) triclin p. 73
2) C₁₉ H₁₈ O₇ di-Me ether of 1
3) C₂₀ H₂₀ O₇ tri-Me ether of 1

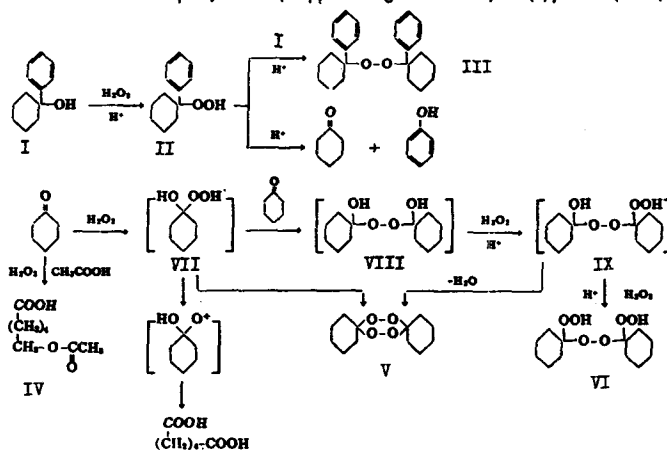


7921

STUDIES ON HYDROPEROXIDES. V. THE ACID-CATALYZED OXIDATION OF 1-PHENYLCYCLOHEXANOL WITH HYDROGEN PEROXIDE.
S. Choe, S. Tsutsumi. (Osaka U.) Recd. April 16, 1960. J. Chem. Soc. Japan, Pure (Nippon Kagaku Zasshi) 82(1), 52-57(1961).

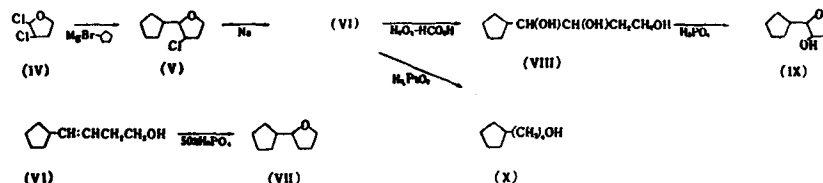
- 1) C₈ H₁₄ O₄ (IV)
2) C₁₆ H₁₉ BR O₅
3) C₁₂ H₂₀ O₄ (V)
4) C₂₄ H₃₀ O₂ (III)
5) C₁₂ H₁₆ O₂ (II)
6) C₁₂ H₂₂ O₆ (VI)
7) C₁₂ H₁₆ O (I)

p. 54
p-Br-phenacyl ester of 1



7922

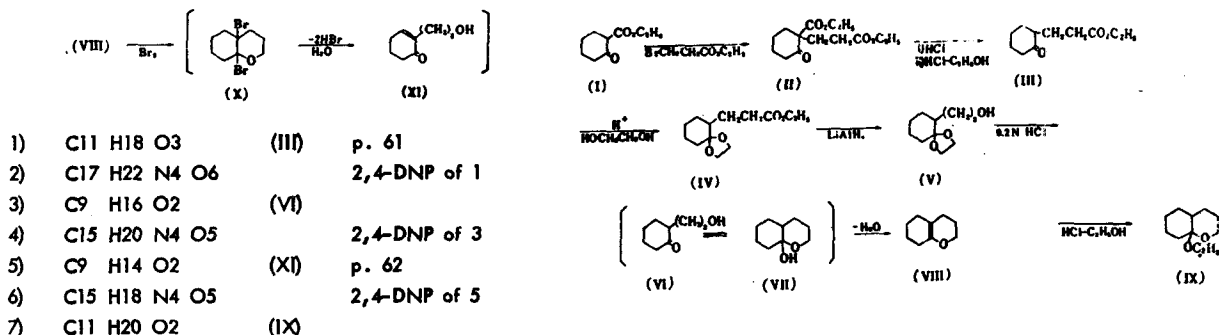
STUDIES ON THE GLYCOSIDE OF AUCUBA JAPONICA. XIII. THE SYNTHESIS OF 2-CYCLOPENTYLTETRAHYDROFURAN AND RELATED COMPOUNDS.
H. Obara. (Tohoku U., Sendai) Recd. May 11, 1960. J. Chem. Soc. Japan, Pure (Nippon Kagaku Zasshi) 82(1), 58-60(1961).



- 1) C₉ H₁₅ Cl O (V) p. 59
2) C₉ H₁₆ O (VI)
3) C₁₆ H₂₁ N O₂ Ph-urethane of 2
4) C₁₆ H₁₉ N O₄ p-NO₂-Bz ester of 2
5) C₉ H₁₆ O (VII)
6) C₉ H₁₈ O₃ (VIII)
7) C₃₀ H₂₇ N₃ O₁₂ tris-p-NO₂-Bz-ester of 6
8) C₉ H₁₆ O₂ (IX)
9) C₂₀ H₂₃ N O₃ α-naphthyl-urethane of 8
10) C₉ H₁₈ O (X) p. 60
11) C₁₆ H₂₃ N O₂ Ph-urethane of 10
12) C₂₀ H₂₅ N O₂ α-naphthyl-urethane of 10

7923

STUDIES ON THE GLYCOSIDE OF AUCUBA JAPONICA. XIV. THE SYNTHESIS OF 1-ETHOXY-2-OXABICYCLO-(4,4,0)-DECANE.
H. Obara. (Tohoku U., Sendai) Recd. May 11, 1960. J. Chem. Soc. Japan, Pure (Nippon Kagaku Zasshi) 82(1), 60-62(1961).



STUDIES ON THE GLYCOSIDE OF AUCUBA JAPONICA. XV. THE SYNTHESIS OF 2-OXOCYCLOPENTYL ALCOHOLS.
H. Obara. (Tohoku U. Sendai) Recd. May 11, 1960. J. Chem. Soc. Japan, Pure (Nippon Kagaku Zasshi) 82(1), 62-65(1961).

(II) $n=1$
 (III) $n=2$

(IV) $n=1$
 (V) $n=2$

(VI) $n=2$
 (VII) $n=3$

(VIII) $n=2$
 (IX) $n=3$

(X)

(XI)

(XII)

(A)

(B)

1) C12 H18 O5 (A)
 2) C13 H21 N3 O5
 3) C9 H14 O3 (II)
 4) C15 H18 N4 O6
 5) C11 H18 O4 (IV)
 6) C9 H16 O3 (VI)
 7) C7 H12 O2 (VIII)
 8) C18 H19 N O3
 9) C12 H20 O4 (V)
 10) C10 H18 O3 (VII)
 11) C8 H14 O2 (IX)
 12) C14 H18 N4 O5
 13) C9 H17 N3 O2

p. 63
 semicarbazone of 1
 2,4-DNP of 3
 α -naphthyl-urethane of 7
 2,4-DNP of 11
 semicarbazone of 11

14) C14 H22 O5
 15) C15 H25 N3 O5
 16) C9 H16 O2
 17) C15 H20 N4 O5
 18) C10 H19 N3 O2
 19) C16 H19 N O5
 20) C9 H15 Cl O
 21) C15 H19 Cl N4 O4
 22) C10 H18 Cl N3 O
 23) C8 H13 Cl O
 24) C14 H17 Cl N4 O4
 25) C9 H16 Cl N3 O

(X)
 (XII)
 (XI)
 (B)

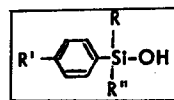
semicarbazone of 14
 2,4-DNP of 16
 semicarbazone of 16
 p-NO₂-benzoate of
 2,4-DNP of 20
 semicarbazone of 20
 2,4-DNP of 23
 semicarbazone of 23

STUDIES ON THE GLYCOSIDES OF AUCUBA JAPONICA. XVI. THE FORMATION OF 2-HYDROXYCYCLOPENTYL ALDEHYDES AND THE SYNTHESIS OF 2-ETHOXY-4-METHYLHEXAHYDROCYCLOPENTA (b) PYRAN.
H. Obara. (Tohoku U.) Recd. May 11, 1960. J. Chem. Soc. Japan, Pure (Nippon Kagaku Zasshi) 82(1), 65-69(1961).

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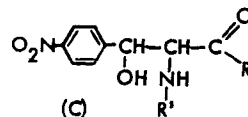
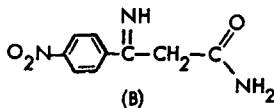
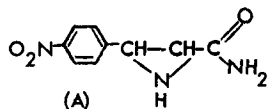
p-SUBSTITUTED PHENYLSILANOLS.
S. Kohama. (Osaka City U.) Recd. June 7, 1960. J. Chem. Soc. Japan, Pure (Nippon Kagaku Zasshi) 82(1), 69-72(1961).

1) C7 H10 O2 Si				R = Me	R' = H	R'' = OH	p. 71				
2) C8 H12 O2 Si				"	Me	"					
3) C13 H14 O2 Si				Ph	"	"					
4) C8 H12 O3 Si				Me	MeO	"			R =	R' =	R'' =
5) C13 H14 O3 Si				Ph	"	"	8) C12 H11 Cl O2 Si		Ph	Cl	OH
6) C7 H9 Cl O2 Si				Me	Cl	"	9) C7 H9 Br O2 Si		Me	Br	"
7) C8 H11 Cl O Si				"	"	Me	10) C8 H11 Br O Si		"	"	Me



7927

THE ADDITION OF AMMONIA TO UNSATURATED ACIDS. II. THE SYNTHESIS OF p-NITROPHENYLSERINE DERIVATIVES.
S. Kimura. (Osaka Univ.) Recd. June 21, 1960. J. Chem. Soc. Japan, Pure (Nippon Kagaku Zasshi) 82(1), 78-82(1961).



1) C9 H9 N3 O3

(A) cis & trans p. 81

2) C9 H9 N3 O3

(B)

3) C11 H13 N3 O5

(C) R = NH₂ R' = Ac (erythro form)

4) C9 H10 N2 O5

" R = OH R' = H

5) C11 H14 N2 O5

" R = OEt R' = H

6) C18 H17 N3 O7

(D)

7) C11 H13 N3 O5

(C) R = NH₂ R' = Ac (threo form)

8) C9 H8 N2 O4

(E)

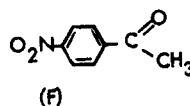
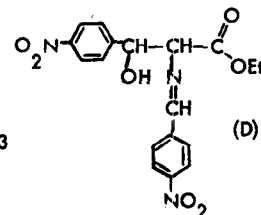
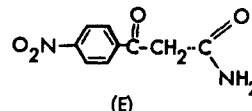
9) C15 H12 N6 O7

2,4-DNP of (E)

10) C8 H7 N O3

(F)

11) C11 H11 Cl2 N3 O5

(C) R = NH₂ R' = COCHCl₂ (threo and erythro)

7928

THE SYNTHESIS OF PEPTIDES BY N,N'-DICYCLOHEXYLCARBODIIMIDE. II. THE SYNTHESIS OF SOME ACID ANHYDRIDES OF N-ACYL AMINO ACIDS AND THE MECHANISM OF THE PROCESS.

J. Muramatsu. (St. Paul's Univ., Tokyo) Recd. July 5, 1960. J. Chem. Soc. Japan, Pure (Nippon Kagaku Zasshi) 82(1), 83-87 (1961).

1) C13 H13 N O5

(I) n = 2

2) C44 H50 N4 O11

bis-(N,N'-dicarbobenzyloxy-L-lysine)-anhydride

3) C34 H32 N2 O7

bis-(N-carbobenzyloxy-L-Ph-alanine)-anhydride

4) C20 H20 N2 O7

bis-(N-carbobenzyloxyglycine)-anhydride

5) C22 H24 N2 O7

bis-(N-carbobenzyloxy-DL-alanine)-anhydride

6) C34 H24 N2 O7

bis-(N-phthalyl-DL-Ph-alanine)-anhydride

7) C22 H16 N2 O7

bis-(N-phthalyl-β-alanine)-anhydride p. 86

8) C24 H31 N3 O4

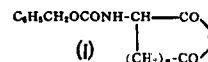
N-(N"-phthalyl-β-alanyl)-N,N'-dicyclohexyl urea

9) C21 H20 N2 O5

N-phthalyl-DL-Ph-alanylglycine Et ester

10) C12 H11 N O5

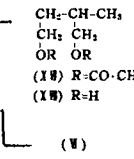
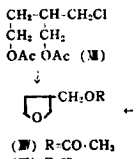
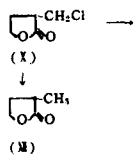
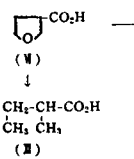
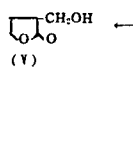
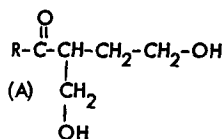
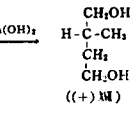
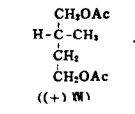
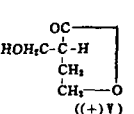
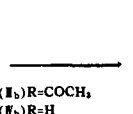
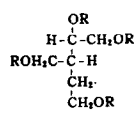
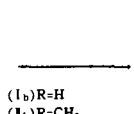
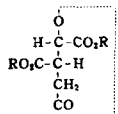
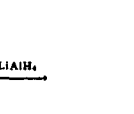
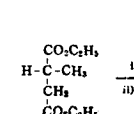
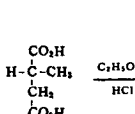
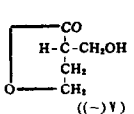
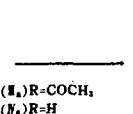
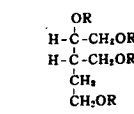
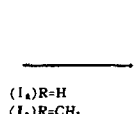
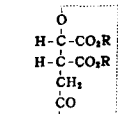
(II) n = 1



7929

STEREOCHEMICAL STUDIES ON α-HYDROXY ACIDS. VI. THE ABSOLUTE CONFIGURATIONS OF β-ASYMMETRIC CARBON ATOMS OF ISOCITRIC ACID. DERIVATION OF METHYLSUCCINIC ACID FROM ISOCITRIC ACIDS.

H. Katsura. (Osaka Univ.) Recd. July 15, 1960. J. Chem. Soc. Japan, Pure (Nippon Kagaku Zasshi) 82(1), 92-97(1961).



1) C8 H10 O6

(IIa & b)

p. 95

10) C5 H10 O2

(XV)

2) C14 H22 O8

(IIIa & b)

11) C12 H16 O4 S

Tos of 10

3) C34 H34 N4 O8

(IVa)

R = CO-NH-Ph

12) C9 H16 O4

(XVI)

4) C5 H12 N2 O3

(A)

R = NH-NH₂

13) C5 H12 O2

(XVII)

5) C12 H10 N2 O8

(V)

di-NO₂-Bz-ester of (V)

14) C19 H22 N2 O4

(B)

6) C5 H8 O3

(X)

15) C9 H16 O4

(XVI)

7) C5 H7 Cl O2

(XIII)

16) C9 H16 O4

(XVI)

8) C9 H15 Cl O4

(XIII)

17) C5 H12 O2

(XVII)

9) C7 H12 O3

(XIV)

18) C19 H22 N2 O4

(B)

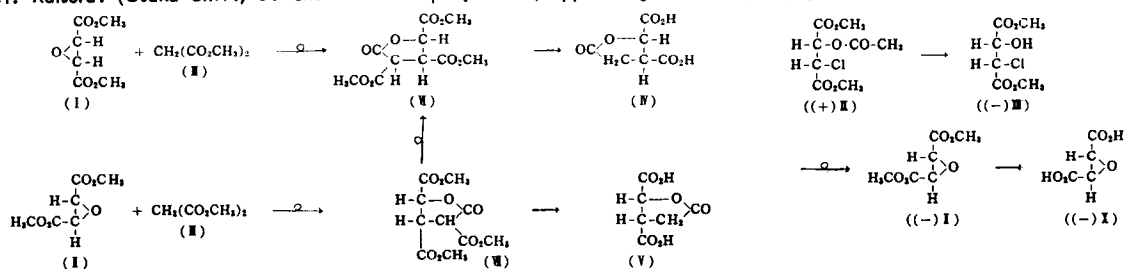
(+) form
di-Ph-urethane of (XVII)

(-) form
di-Ph-urethane of (XVII)

7930

STEREOCHEMICAL STUDIES ON α -HYDROXY ACIDS. VII. THE ABSOLUTE CONFIGURATIONS OF ISOCITRIC ACIDS AND THE SYNTHESIS OF (-) ISOCITRIC LACTONE FROM D₅ (+) TARTARIC ACID.

H. Katsura. (Osaka Univ.) J. Chem. Soc. Japan, Pure (Nippon Kagaku Zasshi) 82(1), 98-100 (1961).



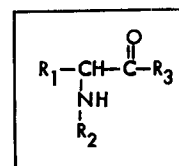
- | | |
|-----------------------|--------------------|
| 1) C6 H9 CL O5 (XIII) | p. 99 |
| 2) C6 H8 O5 (II) | 4) C10 H12 O8 (VI) |
| 3) C4 H4 O5 (X) | 5) C6 H6 O6 (V) |

7931

THE RESOLUTION OF AMINO ACIDS. V. THE RESOLUTION OF RACEMIC ALANINE, LEUCINE, AND NORLEUCINE BY PAPAIN-CATALYZED ANILIDE FORMATION.

H. Uchio (Kyushu Univ., Fukuoka) Recd. July 18, 1960. J. Chem. Soc. Japan, Pure (Nippon Kagaku Zasshi) 82(1), 104-109 (1961).

- | | R ₁ = | R ₂ = | R ₃ = | |
|------------------|------------------|--------------------------|------------------|--------|
| 1) C14 H20 N2 O2 | Me | Isovaleryl | NHPh | p. 106 |
| 2) C15 H22 N2 O2 | " | n-caproyl | " | |
| 3) C16 H24 N2 O2 | i-Bu | n-butyryl | " | |
| 4) C17 H26 N2 O2 | " | isovaleryl | " | |
| 5) C18 H28 N2 O2 | " | n-caproyl | " | |
| 6) C16 H24 N2 O2 | n-Bu | n-butyryl | " | |
| 7) C17 H26 N2 O2 | " | Isovaleryl | " | |
| 8) C18 H28 N2 O2 | " | n-caproyl | " | |
| 9) C20 H24 N2 O3 | " | Ph-CH ₂ -O-CO | " | |
| 10) C8 H15 N O3 | Me | Isovaleryl | OH | p. 107 |
| 11) C9 H17 N O3 | " | n-caproyl | " | |
| 12) C10 H19 N O3 | i-Bu | n-butyryl | " | |
| 13) C11 H21 N O3 | " | Isovaleryl | " | |
| 14) C12 H23 N O3 | " | n-caproyl | " | |
| 15) C10 H19 N O3 | n-Bu | n-butyryl | " | |
| 16) C11 H21 N O3 | " | Isovaleryl | " | |
| 17) C12 H23 N O3 | " | n-caproyl | " | |
| 18) C14 H19 N O4 | " | Ph-CH ₂ -O-CO | " | |



7932

THE RESOLUTION OF AMINO ACIDS. VI. THE RESOLUTION OF RACEMIC VALINE AND NORVALINE BY PAPAIN-CATALYZED ANILIDE FORMATION.

H. Uchio. (Kyushu Univ. Fukuoka) J. Chem. Soc. Japan, Pure (Nippon Kagaku Zasshi) 82(1), 109-112 (1961).

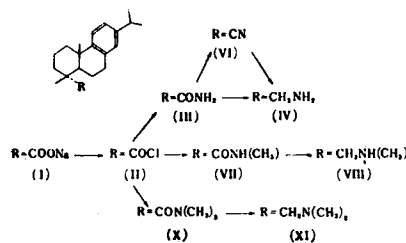
- | | | |
|------------------|--------------------------|--------|
| 1) C16 H24 N2 O2 | i-valeryl-valine-anilide | p. 111 |
| 2) C16 H24 N2 O2 | " norvaline-anilide | |
| 3) C17 H26 N2 O2 | n-caproyl " " | |
| 4) C19 H22 N2 O3 | carbobenzoxy " " | |
| 5) C10 H19 N O3 | i-valeryl-valine | |
| 6) C10 H19 N O3 | " norvaline | |
| 7) C11 H21 N O3 | n-caproyl " | |
| 8) C13 H17 N O4 | carbobenzoxy-norvaline | |

7933

THE SYNTHESIS OF DEHYDROABIETYLAMINE AND RELATED COMPOUNDS.

H. Kanno. (Tokyo Gakugei Univ.) Recd. July 18, 1960. J. Chem. Soc. Japan, Pure (Nippon Kagaku Zasshi) 82(1), 113-114 (1961).

- | | | |
|----------------|--------|---------------|
| 1) C20 H31 N | (IV) | p. 113 |
| 2) C20 H27 N | (VI) | p. 114 |
| 3) C21 H31 N O | (VII) | |
| 4) C21 H33 N | (VIII) | |
| 5) C23 H35 N O | | Ac ester of 4 |
| 6) C22 H33 N O | (X) | |
| 7) C22 H35 N | (XI) | |
| 8) C23 H38 I N | | MeI of 7 |

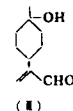


7934

THE OXIDATION OF dl- β -TERPINEOL WITH SELENIUM DIOXIDE.

Y. Sakuda. (Kochi Women's Univ.) Recd. July 27, 1960. J. Chem. Soc. Japan, Pure (Nippon Kagaku Zasshi) 82(1), 117-120 (1961).

- 1) C₁₀ H₁₆ O₂ (III) p. 119
- 2) C₁₁ H₁₉ N₃ O₂ semicarbazone of (III)
- 3) C₁₈ H₂₁ Br O₃ p-Br-phenacyl ester of (III)

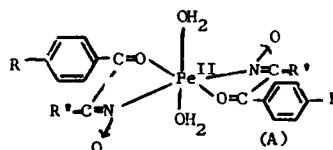


7935

SYNTHESES AND PROPERTIES OF IRON (II) COMPLEXES OF 1,2-DIKETONE-MONOXIMES AND ITS DERIVATIVES. I. THE SYNTHESES AND THE STRUCTURE OF BIS-(1,2-DIKETONE-MONOXIME)-DIAQUO-IRON.

I. Masuda. (Osaka Univ.) Recd. Aug. 1, 1960. J. Chem. Soc. Japan, Pure (Nippon Kagaku Zasshi) 82(1), 120-125 (1961).

- | | | | | |
|---|-------------------------------------|---------|---------|--------|
| 1) C ₁₆ H ₁₆ Fe N ₂ O ₆ | (A) | R = H | R' = H | p. 123 |
| 2) C ₁₆ H ₁₄ Cl ₂ Fe N ₂ O ₆ | " | R = Cl | R' = " | |
| 3) C ₁₆ H ₁₄ Br ₂ Fe N ₂ O ₆ | " | R = Br | R' = " | |
| 4) C ₁₈ H ₂₀ Fe N ₂ O ₈ | " | R = MeO | R' = " | |
| 5) C ₂₈ H ₂₄ Fe N ₂ O ₆ | " | R = H | R' = Ph | |
| 6) C ₁₆ H ₁₂ Fe N ₂ O ₄ | compound 1) minus 2H ₂ O | | | |

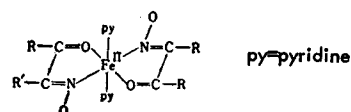


7936

SYNTHESES AND PROPERTIES OF IRON (II) COMPLEXES OF 1,2-DIKETONE-MONOXIMES AND ITS DERIVATIVES II. THE SYNTHESES AND THE STRUCTURE OF BIS-(1,2-DIKETONE-MONOXIMATO)-DIPYRIDINE-IRON (II).

I. Masuda. Recd. Aug. 1, 1960. J. Chem. Soc. Japan, Pure (Nippon Kagaku Zasshi) 82(1), 125-128 (1961).

- | | | | | |
|---|-----|-------------|--------|--------|
| 1) C ₂₆ H ₂₂ Fe N ₄ O ₄ | (I) | R = Ph | R' = H | p. 125 |
| 2) C ₂₆ H ₂₀ Cl ₂ Fe N ₄ O ₄ | " | R = p-Ph-Cl | R' = " | p. 126 |
| 3) C ₂₆ H ₂₀ Br ₂ Fe N ₄ O ₄ | " | R = p-Ph-Br | R' = " | |

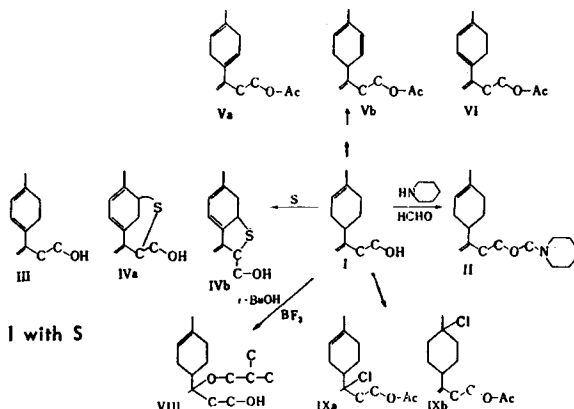


7937

THE DERIVATIVES OF LIMONENYL CARBINOL. II.

K. Suga, S. Watanabe. (Chiba Univ.) Recd. Aug. 1, 1960. J. Chem. Soc. Japan, Pure (Nippon Kagaku Zasshi) 82(1), 128-131 (1961).

- 1) C₁₇ H₂₉ N O (II) p. 130
- 2) C₁₁ H₁₄ O S (IV) p. 131
- 3) C₁₃ H₁₈ O₂ (V)
- 4) C₁₃ H₁₈ O₂ (VI)
- 5) C₁₃ H₁₆ O₂ S (VII) by-product from Reac. of Ac of I with S
- 6) C₁₅ H₂₈ O₂ (VIII)
- 7) C₁₃ H₂₁ Cl O₂ (IX)

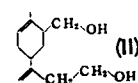


7938

THE IDENTIFICATION OF 6,10-DIOXYMETHYL-1,8-(9)-p-MENTHADIENE.

K. Suga, S. Watanabe. (Chiba Univ.) Recd. Aug. 1, 1960. J. Chem. Soc. Japan, Pure (Nippon Kagaku Zasshi) 82(1), 131-132 (1961).

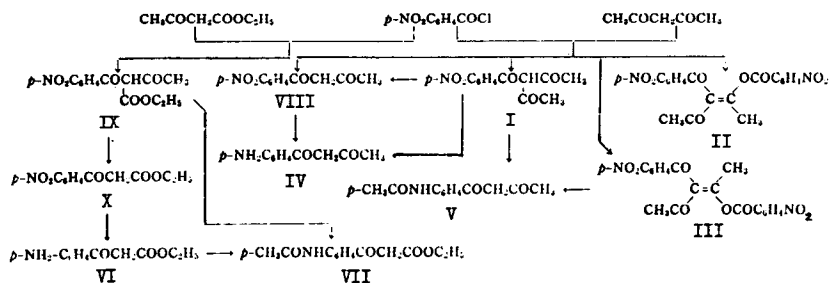
- 1) C₁₂ H₂₀ O₂ (II) p. 132



7939

THE SYNTHESIS OF p-AMINOBENZOYLACETONE AND RELATED COMPOUNDS.

K. Hattori, H. Nakano. (Fujisawa Pharm. Co., Osaka) Recd. March 11, 1960. J. Chem. Soc. Japan, Pure (Nippon Kagaku Zasshi) 82(1), 132-133 (1961).

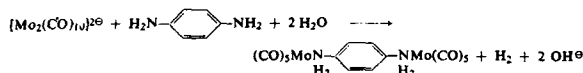


- | | | |
|--|--------|---|
| 1) C ₁₉ H ₁₄ N ₂ O ₈ (II) | p. 133 | 5) C ₁₂ H ₁₃ N O ₃ (V) |
| 2) C ₁₉ H ₁₄ N ₂ O ₈ (III) | | 6) C ₁₁ H ₁₃ N O ₃ (VI) |
| 3) C ₁₂ H ₁₁ N O ₅ (I) | | 7) C ₁₃ H ₁₅ N O ₄ (VII) |
| 4) C ₁₀ H ₁₁ N O ₂ (IV) | | |

7940

ON THE CHEMISTRY OF METALCARBONYLS IN LIQUID AMMONIA. VI. BINUCLEAR CARBONYLMETALLATES OF CHROMIUM AND MOLYBDENUM.

H. Behrens, W. Haag.

Tech. Hochschule, Munich. Recd. Sept. 12, 1960.
Chem. Ber. 94(2), 312-19(1961).

- | | | |
|-----------------------|--|--------|
| 1) C14 H13 Mo2 N O10 | $[\text{NMe}_4][\text{Mo}_2(\text{CO})_{10}\text{H}]$ | p. 319 |
| 2) C14 H13 Cr2 N O10 | $[\text{NMe}_4][\text{Cr}_2(\text{CO})_{10}\text{H}]$ | p. 318 |
| 3) C18 H24 Cr2 N2 O10 | $[\text{C}_2\text{H}_5]_2[\text{Cr}_2(\text{CO})_{10}]$ | |
| 4) C22 H13 Cr Mo2 O10 | $[\text{Cr}(\text{C}_6\text{H}_5)_2][\text{Mo}_2(\text{CO})_{10}\text{H}]$ | p. 319 |
| 5) C16 H8 Mo2 N2 O10 | $(\text{Mo}(\text{CO})_5)_2 \cdot \text{p-C}_6\text{H}_4(\text{NH}_2)_2$ | |
| 6) C5 Mo Na2 O5 | $\text{Na}_2[\text{Mo}(\text{CO})_5]$ | |

7941

TRI-NUCLEAR CARBONYLMETALLATES OF $\text{Na}_2[\text{Cr}_3(\text{CO})_{14}]$ AND $\text{Na}_2[\text{Mo}_3(\text{CO})_{14}]$.

H. Behrens, W. Haag.

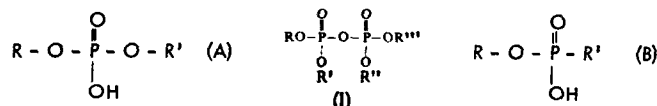
Tech. Hochschule, Munich. Recd. Sept. 12, 1960.
Chem. Ber. 94(2), 320-22(1961).

- | | | | |
|-----------------------|---|--------|---|
| 1) C14 Cr3 Na2 O14 | $\text{Na}_2[\text{Cr}_3(\text{CO})_{14}]$ | p. 321 | |
| 2) C22 H24 Cr3 N2 O14 | $[\text{NMe}_4]_2[\text{Cr}_3(\text{CO})_{14}]$ | p. 322 | 3) C14 Mo3 Na2 O14 $\text{Na}_2[\text{Mo}_3(\text{CO})_{14}]$ |

7942

THE CHEMISTRY OF ENERGY-RICH PHOSPHATES. IX. THE REACTIONS OF TRIESTERS OF PYROPHOSPHORIC ACID.

F. Cramer, R. Wittmann.

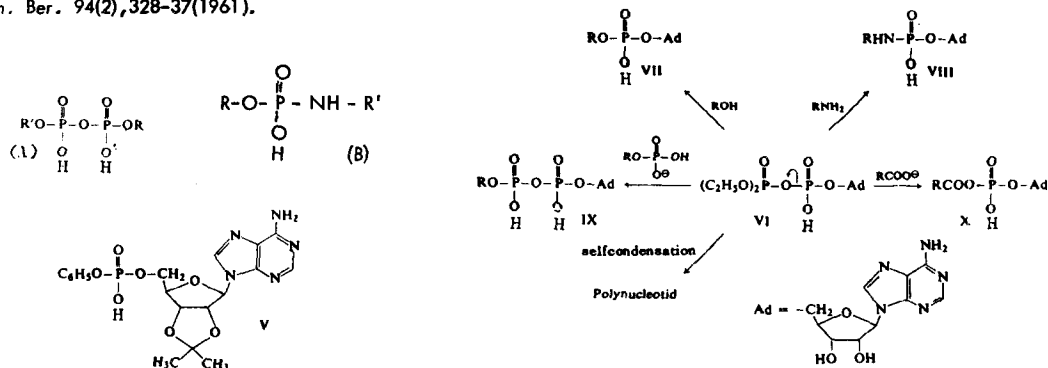
Univ. Heidelberg, Germany. Recd. July 8, 1960.
Chem. Ber. 94(2), 322-28(1961).

- | | R = | R' = | R'' = | R''' = | |
|-------------------------|---------|-----------|--------|------------------------------|--------|
| 1) C8 H11 O4 P (A) | Me | benzyl | | (and cyclohexylamine salt) | p. 327 |
| 2) C13 H13 Cl O7 P2 (I) | p-Cl-Ph | H | benzyl | H (and cyclohexylamine salt) | |
| 3) C14 H16 N O3 P (B) | benzyl | NH-benzyl | | | |
| 4) C15 H18 N O4 P " | " | NH-Ph-OEt | | | |

7943

CHEMISTRY OF ENERGY-RICH PHOSPHATES. X. THE PREPARATION OF TRIESTERS OF PYROPHOSPHORIC ACID AND THEIR USE FOR SYNTHESIS OF NUCLEOTIDE DERIVATIVES.

F. Cramer, R. Wittmann.

Univ. Heidelberg, Germany. Recd. July 8, 1960.
Chem. Ber. 94(2), 328-37(1961).

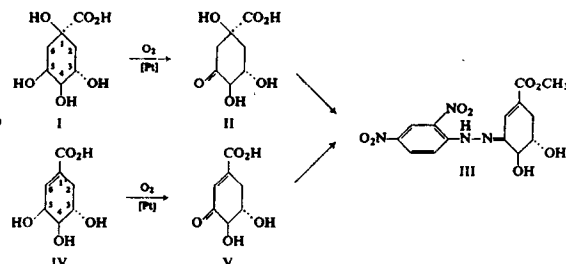
- | | R = | R' = | |
|---------------------------|-------------------|------------|--------------------------------------|
| 1) C19 H22 N5 O7 P (V) | | | (and cyclohexylamine salt) p. 333 |
| 2) C14 H23 N5 O10 P2 (VI) | | | (and Na salt) p. 334 |
| 3) C11 H16 N5 O7 P (VII) | Me | | (and NH_4 salt) p. 335 |
| 4) C16 H25 N6 O6 P (VIII) | cyclohexyl | | " " " |
| 5) C16 H19 N5 O10 P2 (IX) | Ph | | " di- NH_4 salt p. 336 |
| 6) C17 H18 N5 O8 P (X) | " | | |
| 7) C12 H12 O7 P2 (A) | " | Ph | (and di-cyclohexylamine salt) p. 333 |
| 8) C12 H10 Cl2 O7 P2 " | p-Cl-Ph | p-Cl-Ph | " p. 334 |
| 9) C14 H16 O7 P2 " | p-tolyl | p-tolyl | " |
| 10) C12 H11 Cl O7 P2 " | p-Cl-Ph | Ph | " |
| 11) C6 H8 O7 P2 " | H | " | " |
| 12) C12 H18 N O3 P (B) | Ph | cyclohexyl | (and cyclohexylamine salt) |
| 13) C6 H8 N O3 P " | " | H | " |
| 14) C10 H15 O4 P | n-Bu Ph phosphate | | p. 333 |

7944

CATALYTIC OXIDATIONS. XV. CATALYTIC OXIDATION OF QUINIC ACID AND SHIKIMIC ACID.

H. Heyns, H. Gottschalk.
Univ. Hamburg. Recd. July 28, 1960.
Chem. Ber. 94(2),343-48(1961).

- | | | | |
|------------------|-------|---------------------|--------|
| 1) C7 H10 O6 | (II) | dehydro-quinic acid | p. 346 |
| 2) C7 H8 O5 | (V) | | p. 347 |
| 3) C14 H14 N4 O8 | (III) | | |

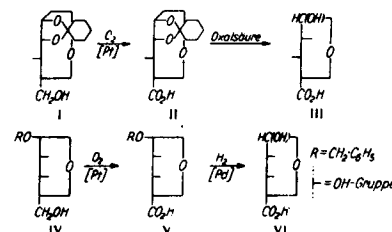


7945

CATALYTIC OXIDATIONS. XVI. PREPARATION OF PENTURONIC ACIDS.

K. Heyns, J. Lenz.
Univ. Hamburg. Recd. July 28, 1960.
Chem. Ber. 94(2),348-52(1961).

- | | | |
|---------------|-------|--------------------|
| 1) C11 H18 O5 | (I) | p. 350 |
| 2) C11 H16 O6 | (II) | p. 351 |
| 3) C5 H8 O6 | (III) | (and brucine salt) |
| 4) C12 H14 O6 | (V) | R = benzyl p. 352 |
| 5) C5 H8 O6 | (VI) | (and brucine salt) |



7946

TRIMETHOXY PHENYL COMPOUNDS. V. Mescaline - LIKE AMINES.

G. P. Schiemenz, H. Engelhard.
Univ. Goettingen, Germany. Recd. July 28, 1960.
Chem. Ber. 94(2),353-55(1961).

- | | | |
|------------------|-------|--|
| 1) C24 H35 N O8 | (III) | p. 354 |
| 2) C11 H16 N2 O4 | | 3,4,5-tri-MeO-benzyl urea (and picrate) p. 355 |

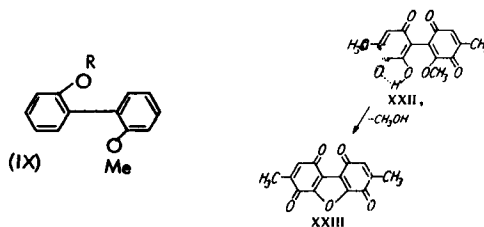


7947

HYDROGEN BONDING IV. ACIDITY AND HYDROGEN BONDING OF HYDROXY-BIPHENYLENES AND HYDROXY-BIPHENYLQUINONES.

H. Musso, H. G. Matthies.
Univ. Goettingen, Germany. Recd. July 29, 1960.
Chem. Ber. 94(2),356-68(1961).

- | | | | |
|---------------|---------|--------|--------|
| 1) C13 H12 O2 | (IX) | R = H | p. 366 |
| 2) C15 H14 O3 | " | R = Ac | p. 367 |
| 3) C15 H12 O6 | (XXII) | | |
| 4) C14 H8 O5 | (XXIII) | | p. 368 |

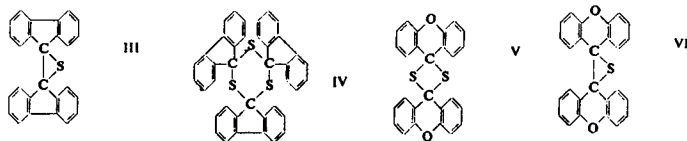


7948

ETHYNYLATION REACTIONS. XIV. ETHYNYLATION EXPERIMENTS WITH THIOKETONES.

W. Ried, H. Klug.
Univ. Frankfurt a.M. Recd. Feb. 4, 1960.
Chem. Ber. 94(2),368-73(1961).

- | | | |
|------------------|-------|--------|
| 1) C26 H16 S | (III) | p. 269 |
| 2) C39 H24 S3 | (IV) | p. 371 |
| 3) C26 H16 O2 S2 | (V) | p. 372 |
| 4) C26 H16 O2 S | (VI) | |

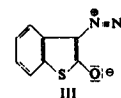
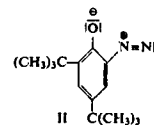
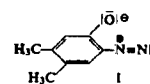


7949

PREPARATION OF o- AND p-QUINONEDIAZIDES FROM THE QUINONES.

W. Ried, R. Dietrich.
Univ. Frankfurt a. M. Recd. July 29, 1960.
Chem. Ber. 94(2),387-91(1961).

- | | | |
|---------------------|-------|--|
| 1) C8 H8 N2 O | (I) | p. 389 |
| 2) C14 H20 N2 O | (II) | p. 390 |
| 3) C8 H4 N2 O S | (III) | |
| 4) C15 H16 N2 O3 S | | tosylhydrazone of 4,5-di-Me-benzoquinone-(1,2) |
| 5) C21 H28 N2 O3 S | | tosylhydrazone of 4,6-di-tert-butyl-benzoquinone-(1,2) |
| 6) C15 H12 N2 O3 S2 | | tosylhydrazone of thionaphthene-2,3-dione |
| 7) C8 H8 N2 O | | 2,5-di-Me-benzoquinone-(1,4)-diazide p. 391 |
| 8) C8 H8 N2 O | | 2,6-" " " (1,4)-diazide-(4) |
| 9) C11 H8 N2 O | | 2-Me-naphthoquinone-(1,4)-diazide |
| 10) C15 H16 N2 O3 S | | tosylhydrazone of 2,5-di-Me-benzoquinone-(1,4) |
| 11) C15 H16 N2 O3 S | | tosylhydrazone of 2,6-di-Me-benzoquinone-(1,4) |
| 12) C18 H16 N2 O3 S | | tosylhydrazone of 2-Me-naphthoquinone-(1,4) |
| 13) C16 H8 N2 O | | fluoranthenequinone-(2,3)diazide p. 390 |

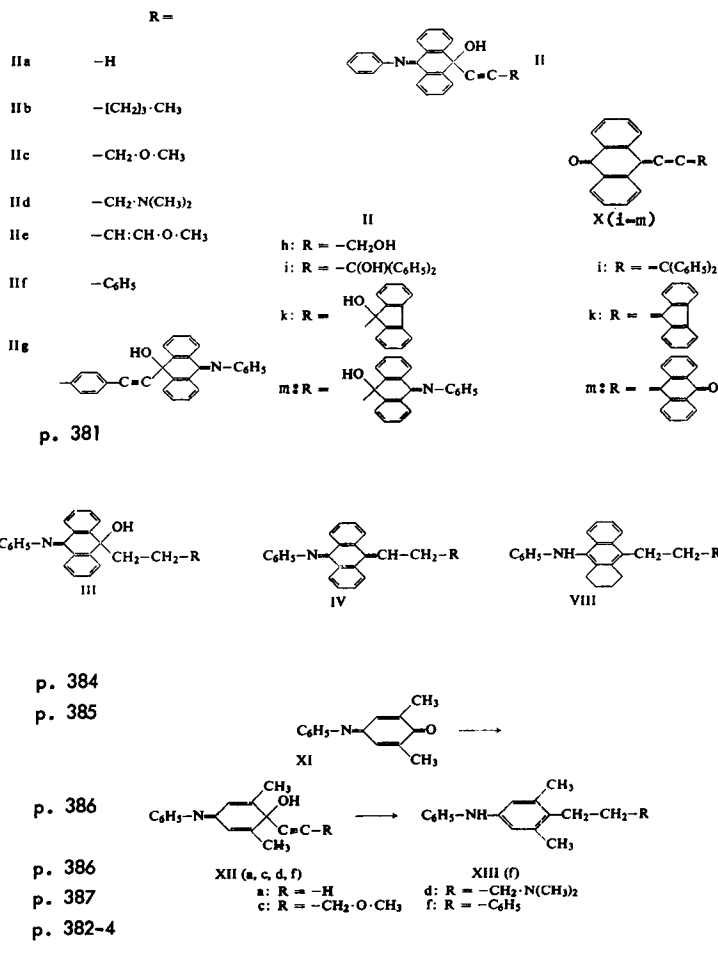


7950

ETHYNYLATION REACTIONS. XVI. ETHYNYLATION OF QUINONE-MONOANILES AND SYNTHESIS OF NEW QUINO-CUMULENES.

W. Ried, H. Neidhardt.
Univ. Frankfurt a. M. Recd. July 29, 1960.
Chem. Ber. 94(2), 373-87(1961).

- | | | |
|-------------------|---------|-------------------------------------|
| 1) C22 H15 N O | (IIa) | p. 379 |
| 2) C26 H23 N O | (IIb) | |
| 3) C24 H19 N O2 | (IIc) | |
| 4) C25 H22 N2 O | (IIId) | |
| 5) C25 H19 N O2 | (IIe) | |
| 6) C28 H19 N O | (IIIf) | |
| 7) C50 H32 N2 O2 | (IIg) | |
| 8) C23 H17 N O2 | (IIh) | p. 383 |
| 9) C35 H25 N O2 | (IIi) | |
| 10) C35 H23 N O2 | (IIk) | |
| 11) C42 H28 N2 O2 | (IIlm) | |
| 12) C22 H19 N O | (III) | R = H |
| 13) C26 H25 N | (IV) | (CH ₂) ₃ Me |
| 14) C24 H21 N O | " | CH ₂ -OMe |
| 15) C28 H21 N | " | Ph |
| 16) C22 H23 N | (VIII) | H |
| 17) C24 H27 N O | " | CH ₂ OMe |
| 18) C25 H29 N O | " | (CH ₂) ₂ OMe |
| 19) C28 H27 N | " | Ph |
| 20) C14 H13 N O | (XI) | |
| 21) C29 H18 O | (Xi) | |
| 22) C29 H16 O | (Xk) | |
| 23) C30 H16 O2 | (Xm) | |
| 24) C16 H15 N O | (XIIa) | |
| 25) C18 H19 N O2 | (XIIc) | |
| 26) C19 H22 N2 O | (XIIId) | |
| 27) C22 H19 N O | (XIIIf) | |
| 28) C22 H23 N | (XIIIf) | |
| 29) C23 H21 N O2 | (III) | R = CH ₂ OH |



7951

ALKALI-PHOSPHORUS COMPOUNDS AND THEIR REACTIVE BEHAVIOR. IX. PREPARATION OF ALKALI-PHOSPHIDES FROM TERT. PHOSPHINES.

K. Issleib, H. Voelker.
Univ. Jena, Germany. Recd. Aug. 1, 1960.
Chem. Ber. 94(2), 412-14(1961).

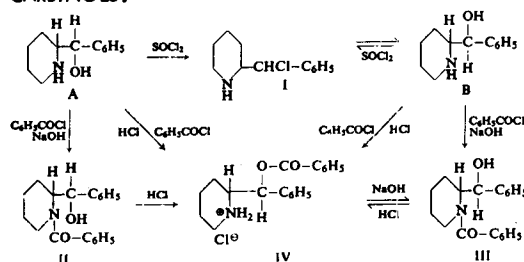
- | | | |
|----------------|-------|-----------------|
| 1) C14 H14 K P | (I) | P. 394 |
| 2) C16 H18 K P | (II) | 8) C16 H19 O2 P |
| 3) C20 H14 K P | (III) | 9) C8 H11 P |
| 4) C8 H10 K P | (IV) | 10) C18 H27 P |
| 5) C8 H10 Na P | (V) | 11) C18 H21 P |
| 6) C12 H16 K P | (VI) | 12) C22 H17 P |
| 7) C16 H12 K P | (VII) | 13) C18 H21 O P |
- V NaP(C₂H₅)(C₆H₅)
VI KP(C₂H₅)(C₆H₅)
VII KP(C₂H₅)(C₆H₅)
IV KP(C₂H₅)(C₆H₅)
(2,5-Me₂-Ph)₂ P(O)OH
(Et) (Ph) P H
dicyclohexyl-Ph-phosphine
cyclohexyl-di-Ph-
α-naphthyl-di-Ph-
(C₆H₁₁) (Ph)₂ P O
- p. 397

7952

DERIVATIVES OF PIPERIDINECARBINOLS. I. PHENYL-PIPERIDYL-(2)-CARBINOLS.

A. Dudas, I. Weisz.
Gedeon Richter A G, Budapest, Hungary. Recd. Aug. 8, 1960.
Chem. Ber. 94(2), 412-14(1961).

- | | | | |
|--------------------|-------|------------------|--------|
| 1) C12 H16 CL N | (I) | (and HCl) | p. 413 |
| 2) C19 H20 CL N O | | N-Bz deriv. of I | |
| 3) C19 H21 N O2 | (II) | | p. 414 |
| 4) C19 H21 N O2 | (III) | | |
| 5) C19 H22 CL N O2 | (IV) | | |

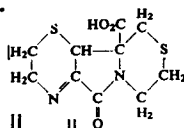


7953

REACTION OF HALOGENPYRUVIC ACID WITH THIOLAMINES.

P. Hermann
Univ. Halle (Saale), Germany. Recd. Aug. 11, 1960.
Chem. Ber. 94(2), 442-45(1961).

- | | | |
|---------------------|------|-------------------------------|
| 1) C10 H12 N2 O3 S2 | (II) | p. 444 |
| 2) C9 H12 N2 O S2 | | decarbonylation product of II |



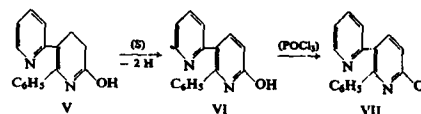
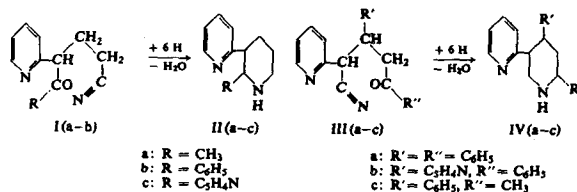
7954

PYRIDINE DERIVATIVES, IV. THE HYDRATION OF δ -KETONITRILES OF THE PYRIDINE SERIES.

H. Beyer, K. Leverenz.

Univ. Greifswald, Germany. Recd. Aug. 8, 1960.
Chem. Ber. 94(2), 407-12(1961).

- 1) C11 H16 N2 (IIa)
- 2) C16 H18 N2 (IIb)
- 3) C15 H17 N3 (IIc)
- 4) C22 H22 N2 (IVa)
- 5) C21 H21 N3 (IVb)
- 6) C17 H20 N2 (IVc)
- 7) C16 H14 N2 O (V)
- 8) C16 H12 N2 O (VI)
- 9) C16 H11 Cl N2 (VII)
- 10) C18 H20 N2 O 1-Ac-deriv. of 2 p. 409
- 11) C22 H28 N2 3-[2-piperidyl]-4,6-di-Ph-piperidine p. 410
- 12) C22 H22 N4 S thiocarbanilide from 3
- 13) C29 H27 N3 S " " 4
- 14) C36 H38 N4 S2 bis-thiocarbanilide from 11
- 15) C28 H26 N4 S thiocarbanilide from 5
- 16) C24 H25 N3 S thiocarbanilide from 6
- 17) C26 H32 N2 O2 1,1'-di-Ac-3-[2-piperidyl]-4,6-di-Ph-piperidine
- 18) C16 H12 N2 2-Ph-3-[2-pyridyl]-pyridine (as dipicrate)



7955

ESTERS OF 3-DESOXY-D-MANNOSE.

G. Rembarz.

Univ. Rostock, Germany. Recd. Aug. 8, 1960.
Chem. Ber. 94(2), 414-19(1961).

- 1) C14 H20 O9 1,2,4,6-tetra-Ac-3-desoxy- β -D-mannose p. 417
- 2) C14 H20 O9 " " " " α -D "
- 3) C14 H20 O9 2,4,5,6- " " " " α -D "
- 4) C34 H28 O9 1,2,4,6- " Bz " " β -D " p. 418
- 5) C36 H34 O8 S2 2,4,5,6- " " " " D-mannose-di-Me-mercaptal p. 419
- 6) C34 H24 N4 O17 1,2,4,6-tetrakis-[p-nitro-Bz]-3-desoxy- β -D-mannose p. 419
- 7) C13 H20 O8 Me-2,4,6-tri-Ac-3-desoxy- β -D-mannoside p. 418
- 8) C15 H24 O8 n-Pr- " " " "
- 9) C12 H17 Cl O7 2,4,6-tri-Ac-1-Cl-3-desoxy- β -D-mannose

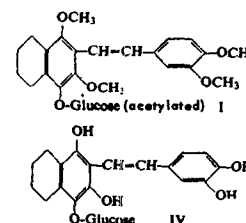
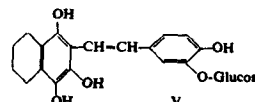
7956

TANNING AGENTS FROM SPRUCE BARK, XII. ISOLATION AND DETERMINATION OF STRUCTURE OF A PICEATANNOL-MONOGLUCOSIDE.

H. Endres, F. Leppmeier.

Max Planck Inst., Munich. Recd. Aug. 10, 1960.
Chem. Ber. 94(2), 419-31(1961).

- 1) C24 H28 O10 (IV and V) p. 428
- 2) C28 H36 O10 tetra-MeO- deriv. of IV and V p. 429
- 3) C40 H44 O16 octa-Ac-deriv. of IV and V p. 430
- 4) C36 H44 O14 (I) p. 429
- 5) C48 H36 N8 O26 tetrakis-dinitro-Ph-deriv. of IV and V
- 6) C36 H24 N6 O17 tris-dinitro-Ph-piceatannol
- 7) C22 H26 O5 (I) H instead of glucose p. 429
- 8) C21 H24 O5 tri-MeO-deriv. of IV and V, H instead of glucose



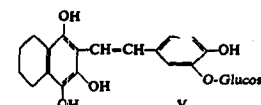
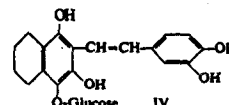
7957

TANNING AGENTS FROM SPRUCE BARK, XIII. ISOLATION OF FURTHER COMPOUNDS FROM SPRUCE BARK.

H. Endres, K. Merkle.

Max Planck Inst., Munich. Recd. Aug. 10, 1960.
Chem. Ber. 94(2), 431-37(1961).

- 1) C24 H30 O10 dihydro deriv. of IV and V p. 436
- 2) C48 H38 N8 O26 tetrakis-dinitro-Ph deriv. of I p. 437



7958

TANNING AGENTS FROM SPRUCE BARK, XIV. ISOLATION OF A TRIHYDROXY-TETRALIN-GLUCOSIDE FROM SPRUCE BARK.

H. Endres, K. Merkle, H. Bauriedel.

Max Planck Inst., Munich. Recd. Aug. 10, 1960.
Chem. Ber. 94(2), 438-41(1961).

- 1) C10 H8 O3 (A) p. 440
- 2) C10 H10 O3 (B)
- 3) C10 H12 O3 (C)
- 4) C16 H18 O6 tri-Ac-deriv. of C
- 5) C16 H22 O8 tri-OH-tetrahydronaphthalene-glucoside



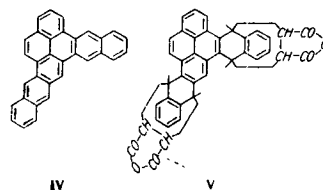
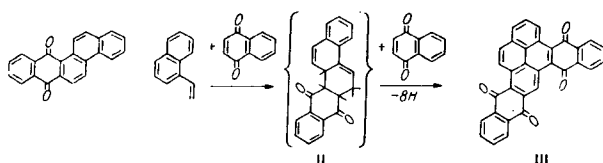
7959

[DINAPHTHO-2',3':1,2; 2'',3'': 4,5-PYRENE].

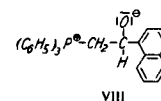
M. Zander, W. Franke.

Ruetgerswerke-A G, Castrop-Rauxel, Germany. Recd. Aug. 16, 1960.

Chem. Ber. 94(2), 446-50(1961).



- 1) C₃₂ H₁₄ O₄ (III) p. 449
- 2) C₃₂ H₁₈ (IV)
- 3) C₄₀ H₂₂ O₆ (V)
- 4) C₃₀ H₂₅ O P (VIII) p. 450
- 5) C₂₉ H₂₄ Cl P naphthyl-(1)-Me-tri-Ph-phosphonium chloride p. 448



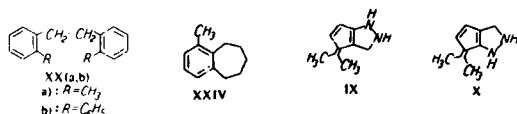
7960

PREPARATION OF 6,6-DISUBSTITUTED 1-METHYLENE-CYCLOHEXA - 2,4-DIENES.

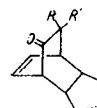
K. Alder, R. Braden, F. H. Flock.

Univ. Koeln a.Rh. Recd. July 29, 1960.

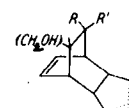
Chem. Ber. 94(2), 456-67(1961).



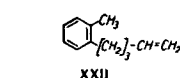
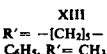
- a: R, R' = CH₃
- b: R + R' = -(CH₂)₅-
- c: R = CH₃, R' = C₆H₅



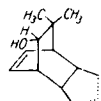
- a: R, R' = CH₃
- c: R = CH₃, R' = C₆H₅



- b: R + R' = -(CH₂)₅-
- d: R = C₆H₅, R' = CH₃



XXII



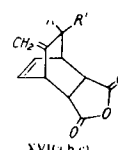
XIV



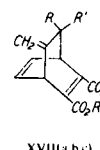
XVa



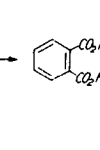
XVb



XVI(a,b,c)



XVII(a,b,c)



XVIII(a,b,c)

- 1) C₉ H₁₂ N₂ (IX or X) (and an isomer) p. 461
- 2) C₁₃ H₁₈ O (XIV)
- 3) C₈ H₁₂ O (XVa or b)
- 4) C₉ H₁₅ N₃ O semicarbazone of XVa or XVb p. 462
- 5) C₁₄ H₁₈ (XIIIa) p. 462
- 6) C₉ H₁₂ (IIIa)
- 7) C₁₃ H₁₄ O₃ (XVIa) R = R' = Me
- 8) C₁₅ H₁₈ O₄ (XVIIa) R = R' = R'' = Me
- 9) C₁₃ H₁₄ O₄ (XVIIa) R = R' = Me, R'' = H
- 10) C₁₇ H₂₄ O (XIIb) p. 464
- 11) C₁₇ H₂₂ (XIIIb)
- 12) C₁₂ H₁₆ (IIIb)
- 13) C₁₆ H₁₈ O₃ (XVIb) R & R' = -(CH₂)₅-
- 14) C₁₈ H₂₂ O₄ (XVIIb) R & R' = -(CH₂)₅-, R'' = Me
- 15) C₁₆ H₁₈ O₄ (XVIIb) R & R' = -(CH₂)₅-, R'' = H
- 16) C₁₂ H₁₆ (XXII)
- 17) C₁₂ H₁₆ (XXIV)
- 18) C₁₉ H₂₀ (XIIIc)
- 19) C₁₄ H₁₄ (IIIc)
- 20) C₂₆ H₂₂ (XXb)
- 21) C₁₈ H₁₆ O₃ (XVIc) R = Me, R' = Ph p. 467
- 22) C₁₀ H₁₀ (XVIIIc) R = Me, R' = Ph
- 23) C₁₉ H₂₂ O (XIId)
- 24) C₉ H₁₈ 1,1,2-tri-Me-cyclohexane
- 25) C₉ H₁₈ O 1,2,2-tri-Me-cyclohexanol-1
- 26) C₉ H₁₆ 2,3,3-tri-Me-cyclohexene-1
- 27) C₁₁ H₁₄ O₂ o-tolyl-butyric acid

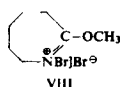
7961

LACTAMS AND CYCLIC PEPTIDES, I. PERBROMIDES AND N-HALOGEN-DERIVATIVES OF CAPROLACTAM AND CYCLODIAMIDE OF ε-AMINO CAPROIC ACID.

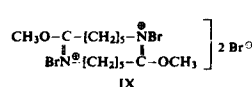
H. Beyer, J. Koeroesi.

Univ. Greifswald, Germany. Recd. Sept. 1, 1960.

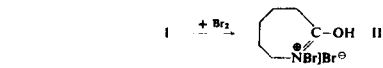
Chem. Ber. 94(2), 480-86(1961).



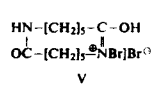
VIII



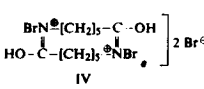
IX



I

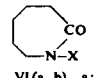


V

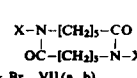


IV

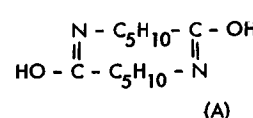
- 1) C₆ H₁₁ Br₂ N O (III) p. 483
- 2) C₁₂ H₂₂ Br₄ N₂ O₂ (IV)
- 3) C₁₂ H₂₂ N₂ O₂ (A) (as di-HBr)
- 4) C₁₂ H₂₂ Br₂ N₂ O₂ (V)
- 5) C₆ H₁₀ Cl N O (VIa)
- 6) C₁₂ H₂₀ Cl₂ N₂ O₂ (VIIa) p. 485



VI(a,b)



VII(a,b)



(A)

- 7) C₁₂ H₂₀ Br₂ N₂ O₂ (VIIb)
- 8) C₇ H₁₃ Br₂ N O (VIII)
- 9) C₁₄ H₂₆ Br₄ N₂ O₂ (IX) p. 486

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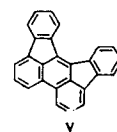
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K. F. Lang, H. Buffleb, J. Kalow.

Ruetgerswerke A G, Castrop-Rauxel, Germany. Recd. Aug. 16, 1960.

Chem. Ber. 94(2), 523-26(1961).

- 1) C₂₆ H₁₄ (V) p. 526



V