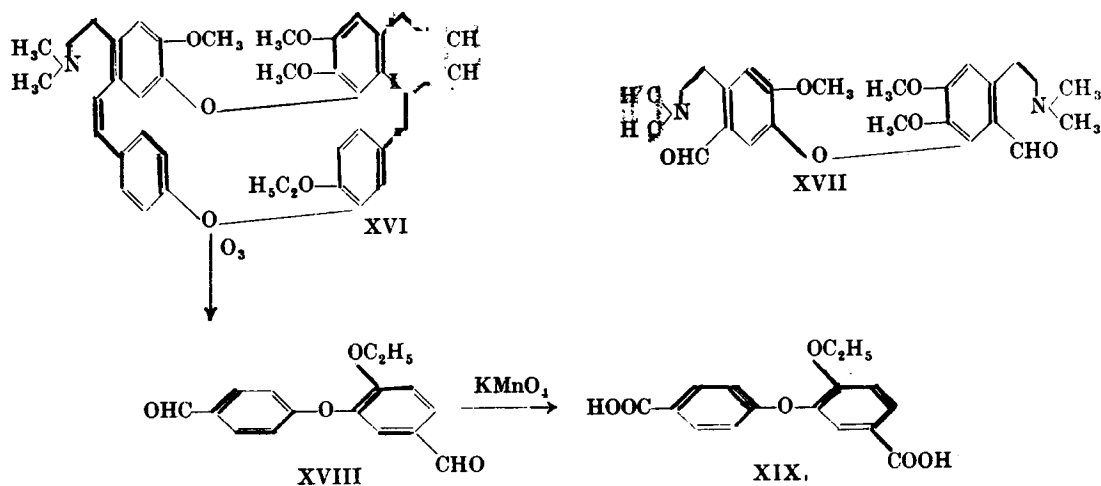
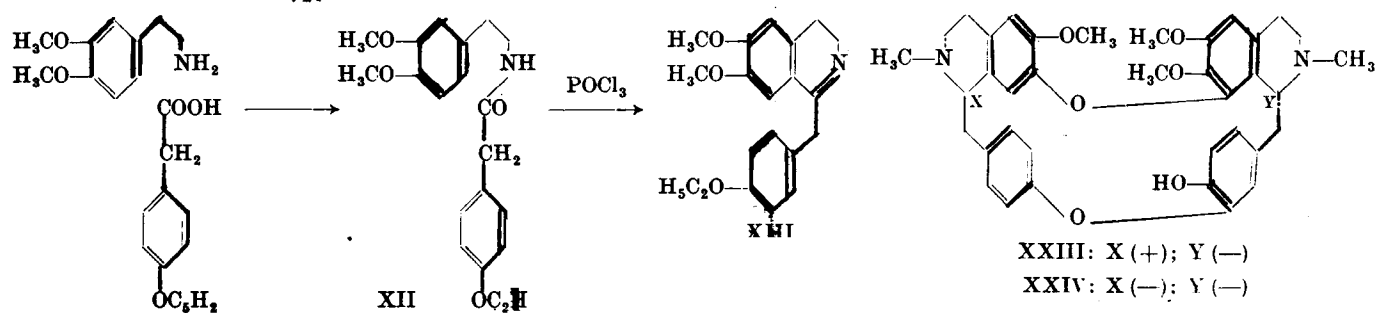
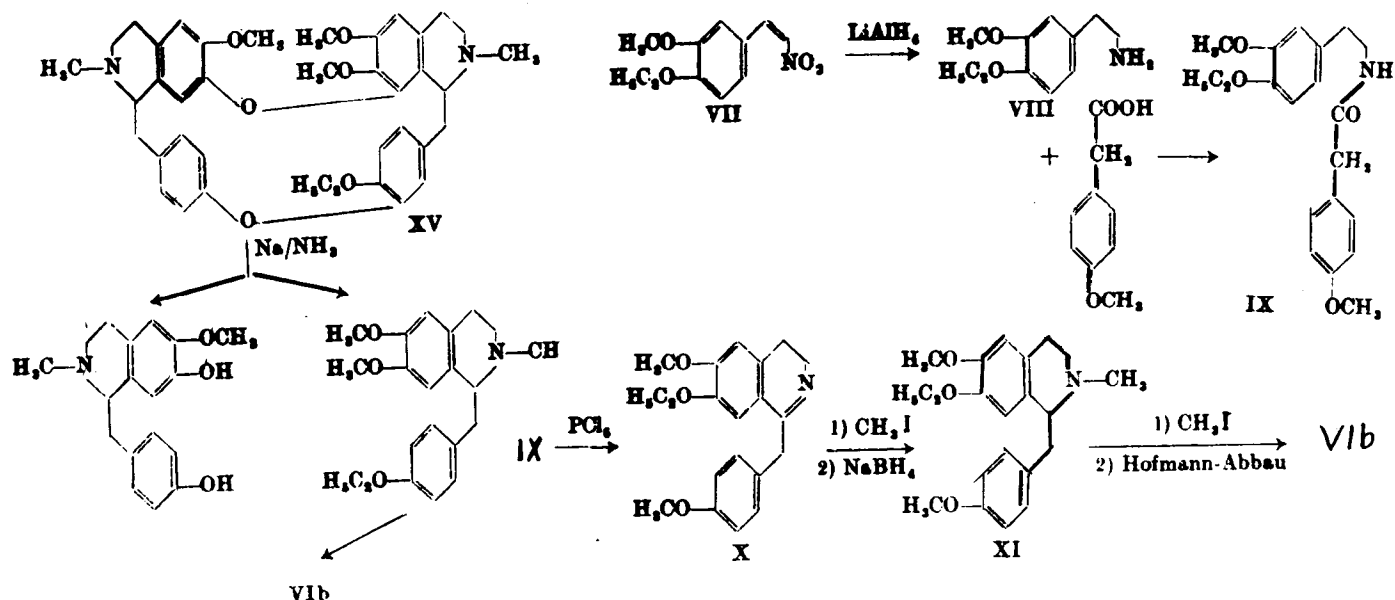
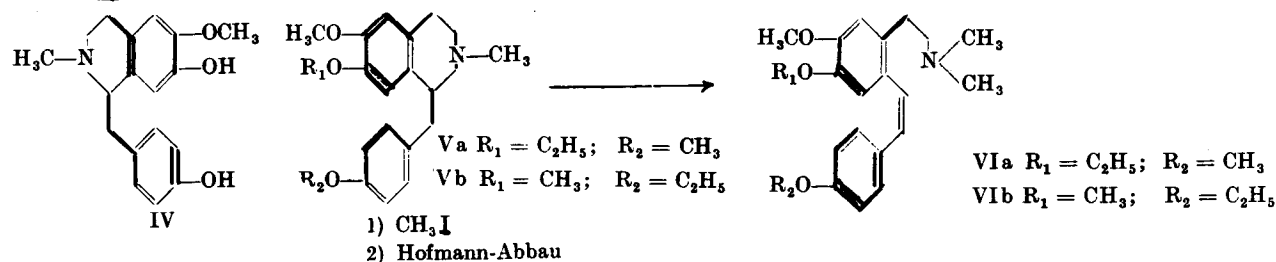


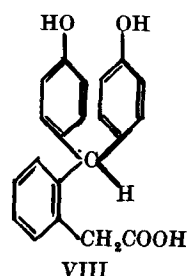
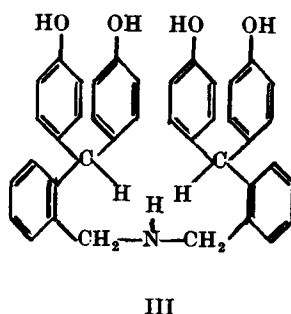
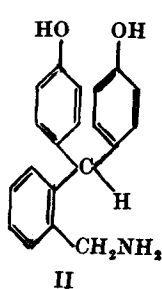


CONTINUED

- 1) C18 H21 N O3 (IV) N-Me-toclaurine p. 792
- 2) C21 H27 N O3 (V) O-Et-amepavine
- 3) C22 H29 N O3 (VIb) 4,5-dimethoxy-4'-ethoxy-2(β-di-Me-amino-Et)stilbene
- 4) C11 H13 N O4 (VII) 3-methoxy-4-ethoxy-ω-nitrostyrene p. 792/793
- 5) C11 H17 N O2 (VIII) β(3-methoxy-4-ethoxy-Ph)-Et-amine p. 793
- 6) C20 H25 N O4 (IX) N(p-methoxy-Ph-acetyl)β-(3-methoxy-4-ethoxy-Ph)Et-amine
- 7) C20 H23 N O3 (X) 1(p-methoxybenzyl)-6-methoxy-7-ethoxy-3,4-dihydro-isoquinoline
- 8) C22 H29 N O3 (VIa) 4,4'-dimethoxy-5-ethoxy-2(β-di-Me-amino-Et)stilbene
- 9) C20 H25 N O4 (XII) N-(p-ethoxy-Ph-acetyl) homo-veratrylamine p. 794
- 10) C20 H23 N O3 (XIII) 1-(p-ethoxy-benzyl)6,7-dimethoxy-3,4-dihydro-isoquinoline
- 11) C39 H42 N2 O6 (XV) O-Et-berbamine
- 12) C41 H48 N2 O6 (XVI) bis-stilbene base from O-Et pycnamine p. 795
- 13) C25 H34 N2 O6 (XVII)
- 14) C16 H14 O4 (XVIII)
- 15) C16 H14 O6 (XIX)
- 16) C37 H40 N2 O6 (XXIV) pycnamine p. 791

1863

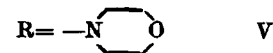
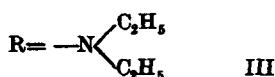
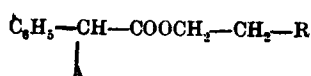
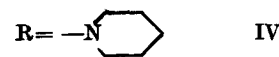
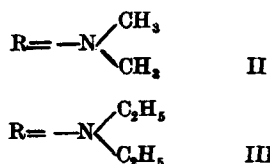
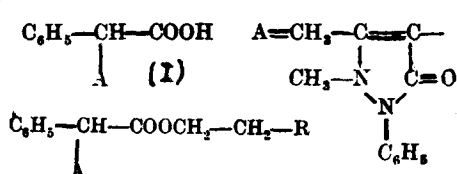
Preparation of 4,4'-dihydroxy-2''-aminomethyl-triphenylmethane. O. Schultz, J. Schnekenburger. (Univ. Kiel, Ger.) *Recd. Apr. 2, 1960. Arch. Pharm.* 293(8),733-739(1960).



- 1) C40 H35 N O4 (III) p. 737
- 2) C20 H19 N O2 (II)
- 3) C21 H18 O4 (VIII) 4,4'-tri-Ph-methane-2''-acetic acid
- 4) C22 H20 O4 Me ester of 3 p. 738
- 5) C21 H20 N2 O3 hydrazide of 3
- 6) C21 H17 N3 O3 azide of 3
- 7) C26 H25 N O5 4,4'-diacetoxy-2''-acetamino-Me-tri-Ph-methane
- 8) C21 H17 N O2 S 4,4'-dihydroxy-2''-isocyanato-Me-tri-Ph-methane p. 739
- 9) C27 H24 N2 O2 S N[4,4'-dihydroxy-tri-Ph-methane-2''-methylene]N'-Ph-thiourea

1864

Phenyl-antipyryl-acetic acid. K. Bodendorf and E. Tron. (Tech. Hochschule, Karlsruhe, Ger.) *Recd. May 16, 1960. Arch. Pharm.* 293(8),739-742(1960).



- 1) C19 H18 N2 O3 (I) Ph-antipyryl acetic acid p. 740/741
- 2) C18 H16 N2 O3 1-Ph-3-Me-5-pyrazolone-4-Ph-acetic acid p. 741
- 3) C25 H31 N3 O3 (III) di-Et-amino-Et ester of I (& HCl)
- 4) C26 H31 N3 O3 (IV) piperidino-Et ester of I (& HCl) p. 742
- 5) C25 H29 N3 O4 (V) morpholino-Et ester of I
- 6) C20 H20 N2 O3 methyl ester of I
- 7) C23 H27 N3 O3 (II) di-Me-amino-Et ester of I

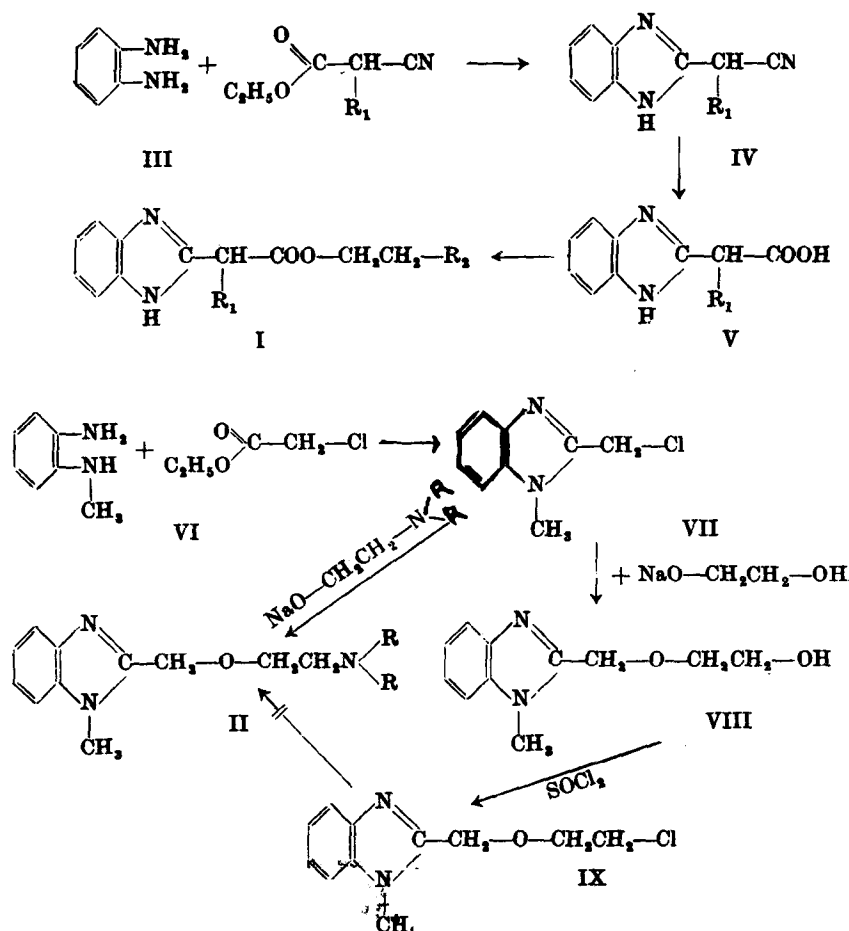
1865

'Amorphous alkaloids' of veratrum album L. W. Poethke and W. Kerstan. (Friedrich Schiller Univ., Jena, Ger.) *Recd.* May 5, 1960. *Arch. Pharm.* 293(8),743-752(1960).

1) C₂₇ H₄₃ N₄ O₄ alkaline A base from veratrum p. 752

1866

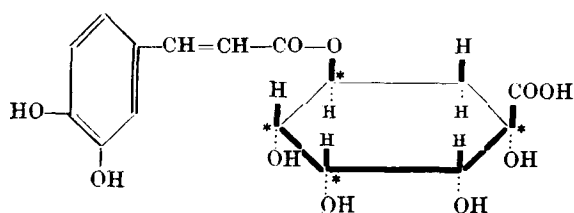
Synthesis of some 1,2-benzimidazole-derivatives. J. Buechi, H. Zwicky and A. Aepli. (E.T.H., Zurich, Switzerland) *Recd.* Apr. 20, 1960. *Arch. Pharm.* 293(8),758-766(1960).



- | | |
|---|--|
| 1) C ₉ H ₇ N ₃ | 2-cyanomethyl-benzimidazole & HCl p. 762 |
| 2) C ₁₀ H ₉ N ₃ | 1-Me-2-cyanomethyl-benzimidazole |
| 3) C ₁₁ H ₁₁ N ₃ | (IV) 2-[1'-cyano]-Pr-benzimidazole; R ₁ = Et |
| 4) C ₁₄ H ₁₂ N ₂ | 2-benzyl-benzimidazole |
| 5) C ₁₅ H ₁₃ N ₃ | 2-[1'-cyano]-4-Ph-Me-benzimidazole |
| 6) C ₉ H ₈ N ₂ O ₂ | benzimidazole-2-acetic acid & HCl p. 763 |
| 7) C ₁₁ H ₁₂ N ₂ O ₂ | Et ester of 6 |
| 8) C ₉ H ₉ Cl N ₂ | (VII) 1-Me-2-chloro-Me-benzimidazole p. 763/764 |
| 9) C ₁₁ H ₁₄ N ₂ O ₂ | (VIII) 1-Me-2-[β-OH-EtO-Me]-benzimidazole & HCl p. 764 |
| 10) C ₁₁ H ₁₃ Cl N ₂ O | (IX) 1-Me-2-[β-chloro-ethoxy-Me]-benzimidazole |
| 11) C ₁₅ H ₂₃ N ₃ O | (II) 1-Me-2[β-di-Et-amino-ethoxy-Me]-benzimidazole & di-HCl p. 765 |
| 12) C ₁₃ H ₁₉ N ₃ O | " 1-Me-2[β-di-Me-amino-ethoxy-Me]-benzimidazole & di-HCl |
| 13) C ₁₅ H ₂₁ N ₃ O ₂ | 1-Me-2[β-morpholino-ethoxy-Me]-benzimidazole & di-HCl |
| 14) C ₁₅ H ₂₁ N ₃ O | 1-Me-2[β-pyrrolidino-ethoxy-Me]-benzimidazole & di-HCl |
| 15) C ₁₆ H ₂₃ N ₃ O | 1-Me-2[β-piperidino-ethoxy-Me]-benzimidazole & di-HCl p. 766 |

1867

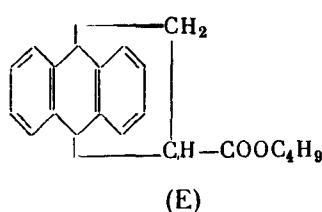
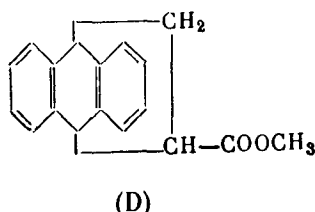
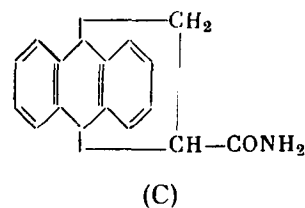
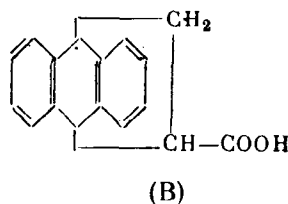
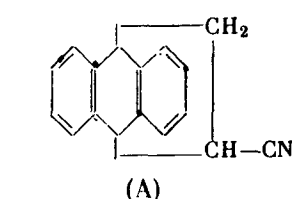
Chlorogenic acid in semen coffeae, and its decomposition during roasting. R. Krasemann. (Tech. Hochschule, Braunschweig, Ger.) *Recd. Mar. 17, 1960. Arch. Pharm.* 293(8),721-733(1960).



1) C₁₆ H₁₈ O₁₀ chlorogenic acid p. 722

1868

Cyanoethylation of polycyclic hydrocarbons. A. Y. Kretov and A. Y. Okhramovich. *Recd. Nov. 12, 1959. Zhur. Prikl. Khim.* 33(3),744-746(1960).

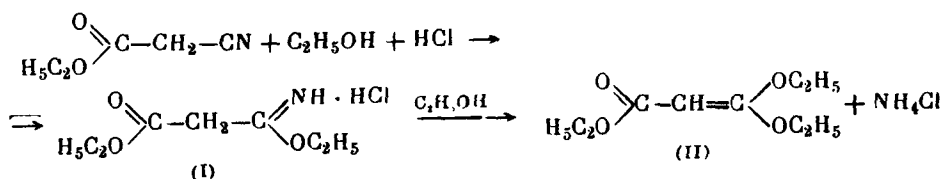


- 1) C₁₇ H₁₃ N (A) p. 745
 2) C₁₇ H₁₄ O₂ (B)
 3) C₁₇ H₁₅ N O (C)
 4) C₁₈ H₁₆ O₂ (D)
 5) C₂₁ H₂₂ O₂ (E)

1869

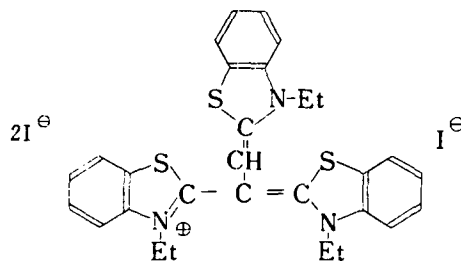
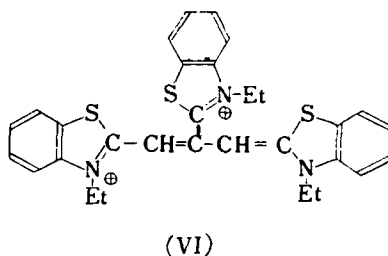
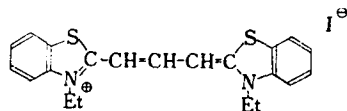
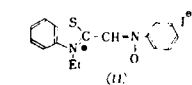
Preparation of the HCl derivatives of the di-ethyl ester of monoimido malonic acid. N.I. Shirokova, T.V. Krasnot and I.V. Aleksandrov. *Recd. May 11, 1959. Zhur. Prikl. Khim.* 33(3),746-748(1960).

- 1) C₇ H₁₃ N O₃ (I) (& HCl) p. 747
 2) C₉ H₁₆ O₄ (II) p. 746



1870

Synthesis of dyes with the neocyanine structure presented by Brooker, and related dyes. III. Condensation of 3-ethyl-2-methylbenzothiazolium iodide and nitrosobenzene, and the dyes obtained from its condensates. S. Kimura. (Fuji Photo Film Co., Ltd., Minami Ashigara.) *Recd. Nov. 17, 1959. Bull. Chem. Soc. Japan* 33(7),872-875(1960).



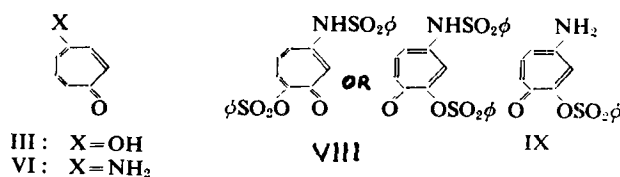
- 1) C₁₆ H₁₅ IN₂ O₅ (II) p. 874
 2) C₂₈ H₂₄ IN₃ S₃ (V) no structure given
 3) C₃₀ H₂₉ I₂ N₃ S₃ (VI)

- 4) C₂₁ H₂₁ IN₂ S₂ (IV) p. 875
 5) C₂₉ H₂₈ IN₃ S₃ (VII)

1871

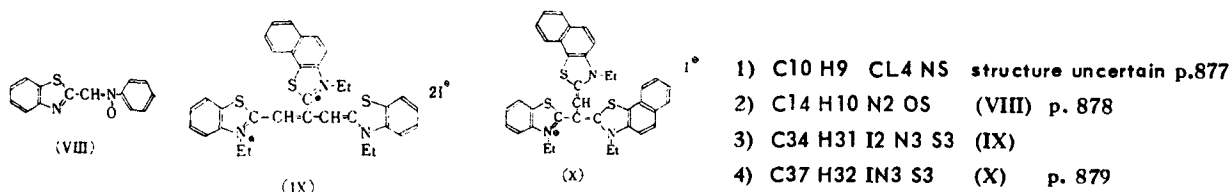
The synthesis of 4-aminotropone. K. Doi. (Tohoku Univ., Sendai) *Recd. Nov. 17, 1959. Bull. Chem. Soc. Japan* 33(7),887-888(1960).

- 1) C₁₄ H₁₃ NO₄ S (IX) p. 888
- 2) C₂₁ H₁₉ NO₆ S₂ (VIII)
- 3) C₇ H₇ NO (VI)



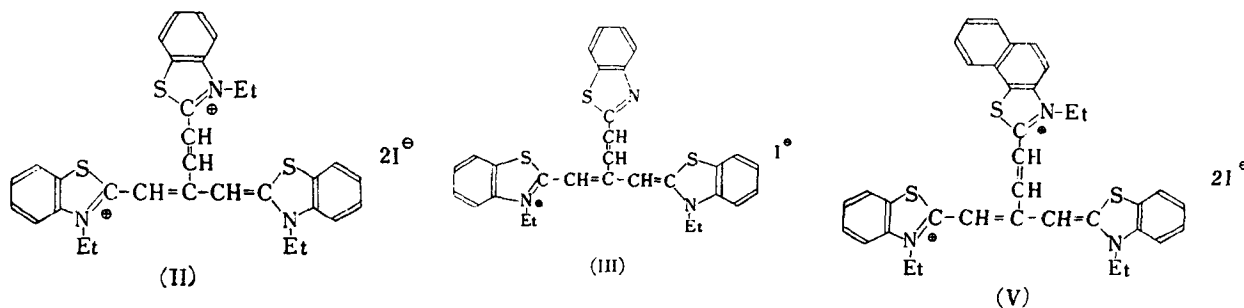
1872

Synthesis of dyes with the neocyanine structure presented by Brooker, and related dyes. IV. Structure of the dyes obtained by the condensation of 3-ethyl-2-methylbenzothiazolium iodide with nitron or anil derivatives. S. Kimura. (Fuji Photo Film Co., Ltd., Minami Ashigara) *Recd. Nov. 17, 1959. Bull. Chem. Soc. Japan* 33(7),875-879(1960).



1873

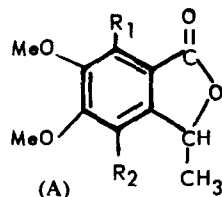
Synthesis of dyes with the neocyanine structure presented by Brooker, and related dyes. V. Synthesis of the Brooker-type dyes from the anil of 3-ethyl-2-formylbenzothiazolium iodide. S. Kimura. (Fuji Photo Film Co., Ltd., Minami Ashigara) *Recd. Nov. 17, 1959. Bull. Chem. Soc. Japan* 33(7),879-881(1960).



1874

On the formation of 3-methylpolymethoxyphthalides. E. Maekawa and Y. Sumimoto. (Nagoya Tech. Univ.) *Recd. Jan. 23, 1960. Bull. Chem. Soc. Japan* 33(7), 941-944(1960).

- 1) C₁₁ H₁₂ O₄ (A) R₁ = H R₂ = H p. 943
- 2) C₁₃ H₁₆ O₅ " R₁ = Me R₂ = -OMe
- 3) C₁₂ H₁₄ O₅ " R₁ = -OMe R₂ = H



1875

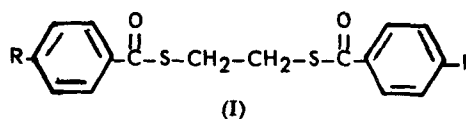
On some dark-colored chlorocuprates (I, II) and related compounds. I. The method of preparation and some properties. M. Mori. (Osaka City Univ.) *Recd. Sept. 14, 1959. Bull. Chem. Soc. Japan* 33(7),985-988(1960).

- 1) CL₉ Cr₂ Cu₂ H₃₆ N₁₂ O [Cr(NH₃)₆]₂Cu₂Cl₉(H₂O)_{1/2} p. 986
- 2) CL₉ Co₂ Cu₂ H₃₆ N₁₂ O [Co(NH₃)₆]₂Cu₂Cl₉(H₂O)_{1/2}
- 3) CL₁₇ Cr₄ Cu₅ H₇₂ N₂₄ [Cr(NH₃)₆]₄Cu₅Cl₁₇ p. 987
- 4) CL₁₇ Co₄ Cu₅ H₇₂ N₂₄ [Co(NH₃)₆]₄Cu₅Cl₁₇
- 5) CL₅ CrCu H₁₈N₆ [Cr(NH₃)₆]₁CuCl₅
- 6) BR₅ CrCu H₁₈N₆ [Cr(NH₃)₆]₁CuBr₅

1876

On the assignment of a band at 727 cm^{-1} in polyethylene terephthalate. A. Miyake. (Tokyo Rayon Co., Otsu) *Recd. Dec. 17, 1959. Bull. Chem. Soc. Japan* 33(7), 992-997(1960).

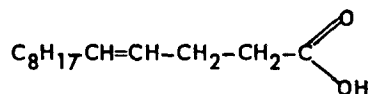
- R =
 1) $\text{C}_{16}\text{H}_{14}\text{O}_2\text{S}_2$ (I) $-\text{H}$ p. 993
 2) $\text{C}_{20}\text{H}_{18}\text{O}_6\text{S}_2$ " $-\text{CO}_2\text{Me}$



1877

Glumamycin, a new peptide-type antibiotic. M. Inoue, H. Hitomi, et al. (Takeda Pharm. Ind., Ltd.) *Recd. May 13, 1960. Bull. Chem. Soc. Japan* 33(7), 1014-1015(1960).

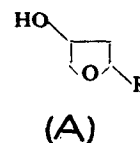
- 1) $\text{C}_{13}\text{H}_{24}\text{O}_2$ (I) p. 1015



1878

A new synthesis of the cis- and trans- D,L-desmethylnuscarins. T. Matsumoto and A. Ichihara. (Hokkaido Univ., Sapporo) *Recd. June 4, 1960. Bull. Chem. Soc. Japan* 33(7), 1015-1016(1960).

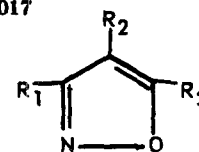
- R =
 1) $\text{C}_5\text{H}_8\text{O}_4$ (A) COOH (2 isomers) p. 1015
 2) $\text{C}_6\text{H}_{10}\text{O}_4$ " COOMe "
 3) $\text{C}_7\text{H}_{13}\text{NO}_3$ " CON(Me)_2 "
 4) $\text{C}_7\text{H}_{15}\text{NO}_2$ " CH_2-NMe_2 "
 5) $\text{C}_8\text{H}_{18}\text{INO}_2$ " $\text{CH}_2-\text{NMe}_3^+\text{I}^-$ "



1879

Formation of isoxazolecarboxylic acids from α,β -unsaturated α -nitroesters. S. Umezawa and S. Zen. (Keio Univ., Tokyo) *Recd. Apr. 15, 1960. Bull. Chem. Soc. Japan* 33(7), 1016-1017(1960).

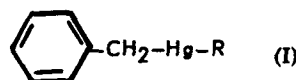
- | | $\text{R}_1 =$ | $\text{R}_2 =$ | $\text{R}_3 =$ | |
|---|----------------------------------|--|----------------------------------|---------|
| 1) $\text{C}_{19}\text{H}_{32}\text{N}_4\text{O}_4$ (III) | $-\text{CO}-\text{NH}-\text{Bu}$ | $-\text{CH}_2-\text{CO}-\text{NH}-\text{Bu}$ | $-\text{CO}-\text{NH}-\text{Bu}$ | p. 1017 |
| 2) $\text{C}_{19}\text{H}_{25}\text{N}_3\text{O}_3$ (VI) | " | $-\text{Ph}$ | " | |
| 3) $\text{C}_{14}\text{H}_{23}\text{N}_3\text{O}_3$ (IX) | " | $-\text{Me}$ | " | |
| 4) $\text{C}_7\text{H}_5\text{NO}_7$ (IV) | $-\text{COOH}$ | $-\text{CH}_2-\text{COOH}$ | $-\text{COOH}$ | |
| 5) $\text{C}_{11}\text{H}_7\text{NO}_5$ (VII) | " | $-\text{Ph}$ | " | |



1880

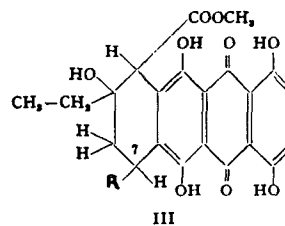
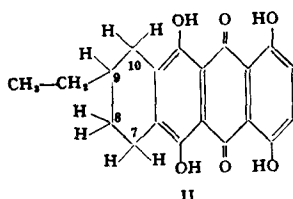
Electrolytic reduction of benzaldehyde at a mercury cathode—preparation of dibenzyl mercury. T. Arai and T. Oguri. (Shinshu Univ., Matsumoto) *Recd. Feb. 12, 1960. Bull. Chem. Soc. Japan* 33(7), 1018(1960).

- 1) $\text{C}_{14}\text{H}_{14}\text{Hg}$ (I) $\text{R} = -\text{CH}_2-\text{Ph}$ p. 1018
 2) $\text{C}_7\text{H}_7\text{CLHg}$ " $\text{R} = -\text{Cl}$



1881

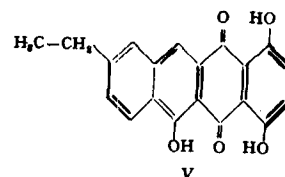
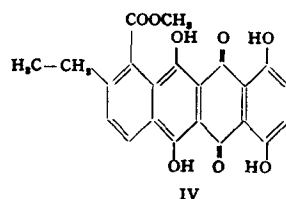
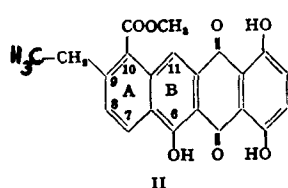
The structure of ϵ -iso-rhodomyacinone. H. Brockmann, and P. Boldt. (Univ. Gottingen, Ger.) *Recd. Feb. 19, 1960. Naturwissenschaften* 47(6), 134-135(1960).



- 1) $\text{C}_{20}\text{H}_{18}\text{O}_6$ (II) reduction prod. from ϵ -iso-rhodomyacinone with phenol and HI p. 134
 2) $\text{C}_{32}\text{H}_{30}\text{O}_{15}$ penta-acetate of ϵ -iso-rhodomyacinone
 3) $\text{C}_{22}\text{H}_{20}\text{O}_{10}$ (III) $\text{R} = \text{OH}$; ϵ -iso-rhodomyacinone p. 135
 4) $\text{C}_{22}\text{H}_{20}\text{O}_9$ " $\text{R} = \text{H}$; ϵ -iso-rhodomyacinone

1882

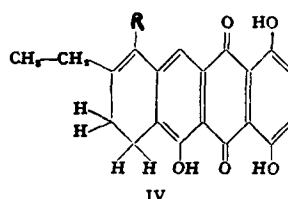
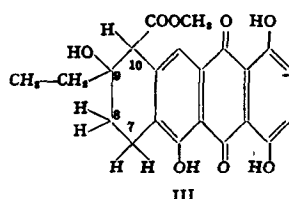
The structure of the pyrromycinones. H. Brockmann and H. Brockmann, Jr. (Univ. Gottingen, Ger.) *Recd. Feb. 19, 1960. Naturwissenschaften* 47(6),135(1960).



- 1) C22 H16 O8 (IV) η -iso-pyrromycinone p. 135
- 2) C22 H16 O7 (II) η -pyrromycinone
- 3) C20 H14 O5 (V) descarbomethoxy- η -pyrromycinone

1883

ζ -Pyrromycinone. H. Brockmann, and W. Lenk. (Univ. Gottingen, Ger.) *Recd. Feb. 19, 1960. Naturwissenschaften* 47(6),135-136(1960).

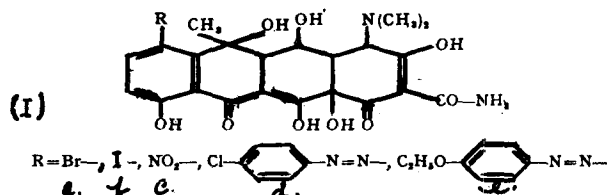


- 1) C20 H16 O5 (IV) R = H; dihydro-descarbomethoxy- η -pyrromycinone p. 135
- 2) C22 H18 O7 " R = COO Me; anhydro- ζ -pyrromycinone
- 3) C22 H20 O8 (III) ζ -pyrromycinone

1884

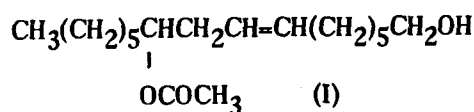
The bacteriostatic effect of some derivatives of 5-oxytetracyclin. E. Jeney and T. Zsolnai. (Med. Univ., Debrecen, Hung.) *Recd. Oct. 7, 1959. Naturwissenschaften* 47(6),136-137(1960).

- 1) C22 H23 BRN2 O9 (Ia) p. 137
- 2) C22 H23 I N2 O9 (Ib)
- 3) C22 H23 N3 O11 (Ic)
- 4) C28 H27 CLN4 O9 (Id)
- 5) C30 H32 N4 O10 (Ie)



1885

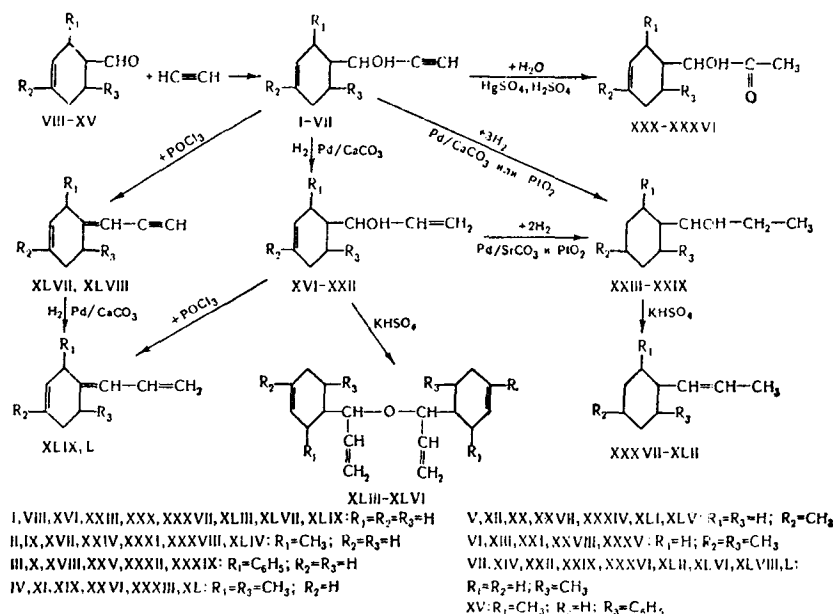
Isolation, identification and synthesis of the sex attractant of gypsy moth. M. Jacobson, M. Beroza and W.A. Jones. (U.S. Agric. Serv., Beltsville, Md.) *Recd. Aug. 6, 1960. Science* 132(3433),1011-1012(1960).



- 1) C18 H34 O3 (I) (+)-10-acetoxy-1-hydroxy-cis-7-hexadecene p. 1011
- 2) C10 H18 O dec-1-yn-4-ol
- 3) C15 H26 O2 4-(tetrahydro-2-pyranyloxy)-dec-1-yne
- 4) C20 H35 CL O2 1-chloro-9-(tetrahydro-2-pyranyloxy)-pentadec-6-yne
- 5) C16 H28 O3 10-hydroxy-7-hexadecynoic acid
- 6) C16 H30 O3 10-hydroxy-cis-7-hexadecenoic acid
- 7) C16 H32 O2 1,10-dihydroxy-cis-7-hexadecene
- 8) C20 H36 O4 1,10-diacetoxy-cis-7-hexadecene
- 9) C18 H34 O3 dl-I

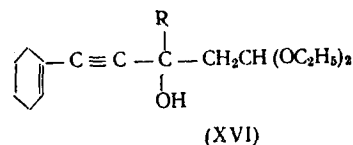
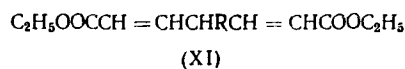
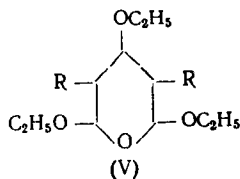
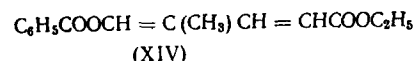
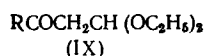
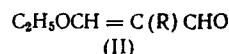
Synthesis and transformations of monocyclic secondary acetylene alcohols. G.P. Kugatova, G.A. Laumianskas, et al. (Akad. Sci. Lithuanian SSR) Recd. Feb. 26, 1960. Dokl. Akad. Nauk SSSR 133(2), 367-369 (1960).

- 1) C₉ H₁₂ O (I) p. 369
- 2) C₁₀ H₁₄ O (II)
- 3) C₁₅ H₁₆ O (III)
- 4) C₁₁ H₁₆ O (IV)
- 5) C₁₀ H₁₄ O (V)
- 6) C₁₁ H₁₆ O (VI)
- 7) C₁₀ H₁₄ O (VII)
- 8) C₉ H₁₄ O (XVI)
- 9) C₁₀ H₁₆ O (XVII)
- 10) C₁₅ H₁₈ O (XVIII)
- 11) C₁₁ H₁₈ O (XIX)
- 12) C₁₀ H₁₆ O (XX)
- 13) C₁₁ H₁₈ O (XXI)
- 14) C₁₀ H₁₆ O (XXII)
- 15) C₉ H₁₈ O (XXIII)
- 16) C₁₀ H₂₀ O (XXIV)
- 17) C₁₅ H₂₂ O (XXV)
- 18) C₁₁ H₂₂ O (XXVI)
- 19) C₁₀ H₂₀ O (XXVII)
- 20) C₉ H₁₄ O₂ (XXX)
- 21) C₁₀ H₁₆ O₂ (XXXI)
- 22) C₁₅ H₁₈ O₂ (XXXII)
- 23) C₁₁ H₁₈ O₂ (XXXIII)
- 24) C₁₀ H₁₆ O₂ (XXXIV)
- 25) C₁₁ H₁₈ O₂ (XXXV)
- 26) C₁₀ H₁₆ O₂ (XXXVI)
- 27) C₉ H₁₆ (XXXVII)
- 28) C₁₅ H₂₀ (XXXIX)



- | | |
|---|--|
| 29) C ₁₀ H ₁₈ (XLI) | 34) C ₂₀ H ₃₀ O (XLVI) |
| 30) C ₁₀ H ₁₈ (XLII) | 35) C ₉ H ₁₀ (XLVII) |
| 31) C ₁₈ H ₂₆ O (XLIII) | 36) C ₁₀ H ₁₂ (XLVIII) |
| 32) C ₂₀ H ₃₀ O (XLIV) | 37) C ₉ H ₁₂ (XLIX) |
| 33) C ₂₀ H ₃₀ O (XLV) | 38) C ₁₀ H ₁₄ (L) |

The hydrolysis of tetraethylacetals of β -dicarbonyl compounds and certain ways of utilizing the substances thereby formed. V.F. Kucherov, L.A. Janovskaia and B.G. Kovalev. (Acad. Sci. SSSR) Recd. Jan. 7, 1960. Dokl. Akad. Nauk SSSR 133(2), 370-373(1960).



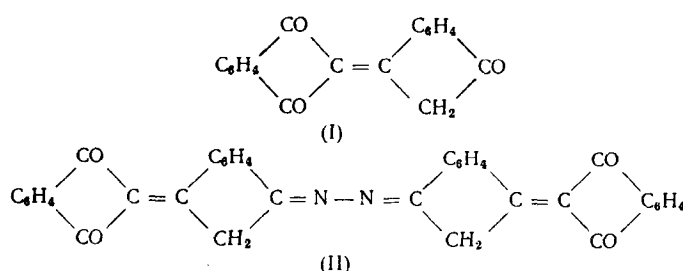
- R =
- 1) C₅ H₈ O₂ (II) H p. 372
 - 2) C₆ H₁₀ O₂ " -Me
 - 3) C₁₀ H₁₈ O₂ " -Am
 - 4) C₈ H₁₆ O₃ (IX) Me
 - 5) C₉ H₁₈ O₃ " Et

- R =
- 6) C₁₁ H₂₂ O₃ (IX) Bu
 - 7) C₁₁ H₂₂ O₄ (V) H
 - 8) C₁₂ H₂₄ O₄ " 3-Me, 5-H
 - 9) C₁₆ H₂₆ O₃ (XVI) Me
 - 10) C₁₂ H₁₈ O₄ (XI) " p. 373

- 11) C₁₅ H₁₆ O₄ (XIV)
- 12) C₁₄ H₁₆ N₄ O₆ 2,4 DNP of unknown
- 13) C₁₂ H₂₂ O₄ di-Et 3-Me-pentadecarboxylate-1,5
- 14) C₁₆ H₂₆ O₅ 1,7-dicarbethoxy-4-ethoxy-3-Me-hepta-1,6-diene

1888

Colour reaction for hydrazine and the substances that liberate hydrazine. G.J. Vanag and R.A. Zhagat. (Akad. Sci. Latvia SSR) *Recd. Mar. 12, 1960. Dokl. Akad. Nauk SSSR* 133(2),362-363(1960).

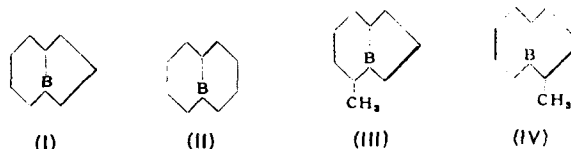


- 1) C₁₈ H₁₀ O₃ (I) p. 362
2) C₃₆ H₂₀ N₂ O₄ (II)

1889

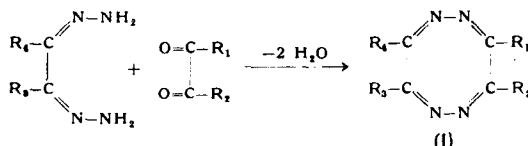
SYNTHESIS OF ALKANETRIOLS BY WAY OF BORO-HETEROCYCLIC COMPOUNDS. R. Koster and G. Rotermund. (Max Planck Inst., Mulheim-Ruhr, Ger.) *Recd. July 22, 1960. Angew. Chem.* 72(16),563(1960).

- 1) C₈ H₁₅ B (I) 8-bora-hydrindane p. 563
2) C₉ H₁₇ B (II) 9-bora-decaline
3) C₉ H₁₇ B (III) 1-Me-8-bora-hydrindane
4) C₉ H₁₇ B (IV) 7-Me-8-bora-hydrindane
5) C₉ H₂₀ O₃ 1,5,9-nonane triol



1890

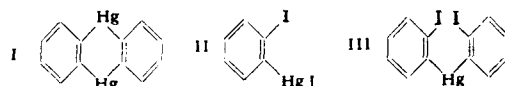
1,2,5,6-TETRA-AZA-CYCLO-2,4,6,8-TETRAENES. H. Schlesinger. (Kalle A.G., Wiesbaden-Biebrich, Ger.) *Recd. July 8, 1960. Angew. Chem.* 72(16),563(1960).



- | | $R_1 =$ | $R_2 =$ | | $R_1 =$ | $R_2 =$ |
|--|---------------------|----------------------|---|---------|------------------------------|
| 1) C ₃₀ H ₂₄ N ₄ O ₂ | (I) | $R_3 = R_4 = C_6H_5$ | 9) C ₃₂ H ₂₈ N ₄ O ₄ | (I) | $R_3 = R_4 = p-CH_3O-C_6H_4$ |
| 2) C ₃₂ H ₂₈ N ₄ O ₂ | " | | 10) C ₃₄ H ₃₂ N ₄ O ₄ | " | |
| 3) C ₄₀ H ₂₈ N ₄ O ₂ | " | | 11) C ₄₂ H ₃₂ N ₄ O ₄ | " | |
| 4) C ₂₈ H ₁₈ CL ₂ N ₄ | " | | | | |
| 5) C ₃₀ H ₂₀ N ₄ O ₄ | " | | 12) C ₃₀ H ₂₂ BR ₂ N ₄ O ₄ | " | |
| 6) C ₂₈ H ₁₈ BR ₂ NR O ₂ | " | | 13) C ₃₀ H ₂₂ CL ₂ N ₄ O ₂ | " | |
| 7) C ₂₉ H ₂₂ N ₄ O | " | C_6H_5 | 14) C ₃₁ H ₂₆ N ₄ O ₃ | " | |
| 8) C ₂₆ H ₁₈ N ₆ | " α -Pyridyl | α -Pyridyl | 15) C ₃₂ H ₂₉ N ₅ O ₂ | " | |

1891

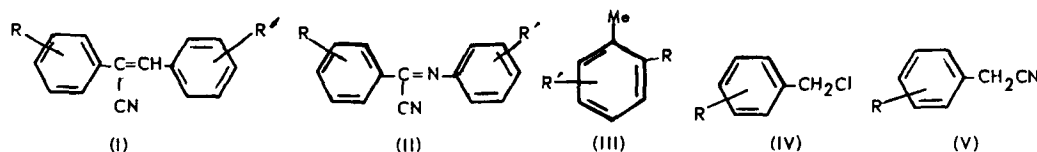
DEHYDROBENZENE FROM o-iodophenyl-mercury-iodide. G. Wittig and H. Ebel. (Univ. Heidelberg, Ger.) *Recd. July 26, 1960. Angew. Chem.* 72(16),564(1960).



- 1) C₁₂ H₈ Hg₂ (I) dimercura-dihydro-anthracene p. 564
2) C₆ H₄ Hg I₂ (II) o-iodo-Ph-mercuri iodide
3) C₁₂ H₈ Hg I₂ (III) bis[o-iodo-Ph]mercury
4) C₃₄ H₂₄ 1,2,3,4-tetra-Ph-naphthalene

1892

Spectrographic method of detection of active methylenes and synthesis of styryl and cyanostilbenes derivatives. (X. Fluorine derivatives of phenylacetoneitrile. S. Jerumanis and A. Bruylants. (Univ. Louvain, Belg.) *Recd. Dec. 21, 1959. Bull. Soc. Chim. Belges* 69(5-6),312-322(1960).

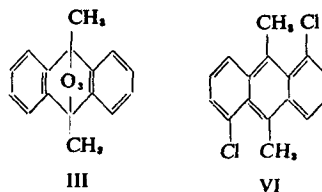


	R =	R' =		R =	R' =	
1) C15 H10 FN	(I) 3-F	H	p. 318	16) C16 H13 F2 N3	(II) 2,6-diF	4-NMe ₂
2) C17 H15 FN2	" "	4-NMe ₂		17) C7 H6 F2	(III) F	4-F p. 320
3) C16 H14 FN3	(II) "	"		18) "	"	6-F p. 321
4) C15 H10 FN	(I) 4-F	H		19) C7 H6 FNO2	" NO ₂	4-F
5) C17 H15 FN2	" "	4-NMe ₂		20) C7 H6 CLF	(IV) 2-F	
6) C16 H14 FN3	(II) "	"		21) "	" 3-F	
7) C17 H14 F2 N2	(I) 2,5-diF	"		22) "	" 4-F	
8) C15 H9 F2 N	" 2,4-diF	H		23) C7 H5 CLF2	" 2,4-diF	
9) C17 H14 F2 N2	" "	4-NMe ₂		24) "	" 2,5-diF	
10) C16 H13 F2 N3	(II) "	"		25) "	" 2,6-diF	p. 322
11) C15 H10 FN	(I) 2-F	H		26) C8 H6 FN	(V) 2-F	
12) C17 H15 FN2	" "	4-NMe ₂		27) "	" 3-F	
13) C16 H14 FN3	(II) "	"		28) "	" 4-F	
14) C15 H9 F2 N	(I) 2,6-diF	H		29) C8 H5 F2 N	" 2,4-diF	
15) C17 H14 F2 N2	" "	4-NMe ₂		30) "	" 2,6-diF	

1893

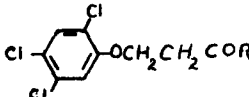
Action of ozone on dimethylantracene. P. de Bruyn. (Inst. Recherches Chim. Appl., Paris) *Recd. Apr. 27, 1959. Bull. Soc. Chim. Belges* 69(5-6),328-333(1960).

- 1) C16 H14 O3 (III) p. 331
- 2) C16 H12 CL2 (VI) p. 332
- 3) C16 H14 CL2 O2 di-OH deriv. of dihydro-VI p. 333



1894

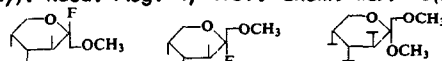
SYNTHESIS AND PRELIMINARY EVALUATION OF AMINO ACID DERIVATIVES OF 2-(2,4,5-TRICHLOROPHENOXY) PROPIONIC ACID. C.F. Krewson, J.F. Camichael, T.F. Drake, J.W. Mitchell and B.C. Smale. (U.S. Dept. Agr., Phila. 18, Pa.) *Recd. July 8, 1959. J. Agr. Food Chem.* 8(2),104-106(1960).

N-[DL-2-(2,4,5-trichlorophenoxy)propionyl]-		N-[DL-2-(2,4,5-trichlorophenoxy)propionyl]-	
R =		R =	
1) C ₁₂ H ₁₂ Cl ₃ NO ₄	L-Alanine D-Alanine DL-Alanine	9) C ₁₂ H ₁₂ Cl ₃ NO ₄	DL-Serine
2) C ₁₃ H ₁₃ Cl ₃ N ₂ O ₄	D-Asparagine L-Asparagine DL-Asparagine	10) C ₁₃ H ₁₃ Cl ₃ NO ₄	L-Threonine D-Threonine DL-Threonine
3) C ₁₃ H ₁₃ Cl ₃ NO ₄	DL-Aspartic acid	11) C ₂₀ H ₁₇ Cl ₃ N ₂ O ₄	L-Tryptophan D-Tryptophan DL-Tryptophan
4) C ₁₄ H ₁₄ Cl ₃ NO ₄	L-Hydroxyproline	12) C ₁₄ H ₁₄ Cl ₃ NO ₄	D-Valine DL-Valine
5) C ₁₃ H ₁₃ Cl ₃ NO ₄	L-Isoleucine D-Isoleucine DL-Isoleucine		N,N'-Bis[DL-2-(2,4,5-trichlorophenoxy)propionyl]-
6) C ₁₃ H ₁₃ Cl ₃ NO ₄	L-Leucine D-Leucine DL-Leucine	13) C ₂₄ H ₂₂ Cl ₃ N ₂ O ₈ S ₂	L-Cystine D-Cystine DL-Cystine
7) C ₁₄ H ₁₄ Cl ₃ NO ₄ S	L-Methionine D-Methionine DL-Methionine	14) C ₂₄ H ₂₄ Cl ₃ N ₂ O ₈	DL-Lysine
8) C ₁₃ H ₁₃ Cl ₃ NO ₄	L-Phenylalanine D-Phenylalanine DL-Phenylalanine		

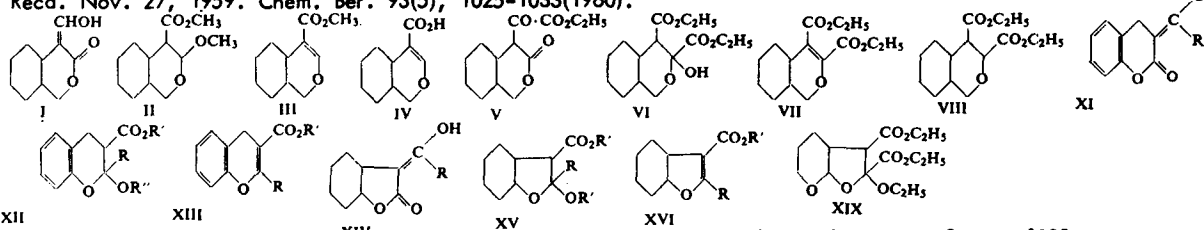
1895

SYNTHESIS OF CARBON-14-LABELED DALAPON AND TRIAL APPLICATIONS TO SOYBEAN AND CORN PLANTS. F.A. Blanchard, W.W. Muelder and G.N. Smith. (Dow Chemical Co., Midland, Mich.) *Recd. Jul. 13, 1959. J. Agr. Food Chem.* 8(2),124-128(1960).

- 1) C₃H₃CL₂NaO₂ Na 2,2-di-Cl-propionate-2-C¹⁴ p. 124



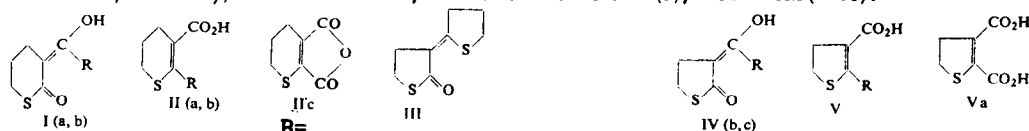
- | | | | | | |
|----------------|--------|--|----|-----------------|--|
| 1) C15 H22 O10 | XIX | 1-Me-2,3,4,5-tetra-acetyl-
β-D-fructose (2,6) p. 1017 | XX | 8) C13 H19 BRO8 | 1-Me-β-2-Br-3,4,5-triacetyl-
D-fructose (2,6) |
| 2) C13 H20 O9 | | 1-Me-3,4,5-triacetyl-β-D-
fructose (2,6) p. 1018 | | 9) C13 H19 CLO8 | 1-Me-β-2-Cl-3,4,5-triacetyl-
D-fructose (2,6) |
| 3) C13 H19 FO8 | | 1-Me-β-2-fluoro-3,4,5-
triacetyl-fructose (2,6) | | 10) C13 H19 FO8 | 1-Me-α-2-F-3,4,5-triacetyl-
D-fructose (2,6) |
| 4) C7 H13 FO5 | (XIX) | 1-Me-β-2-fluoro-fructose | | 11) C7 H14 O6 | 1-Me-D-fructose p. 1020 |
| 5) C8 H16 O6 | | 1-Me-α-Me-D-fructoside | | 12) C7 H13 FO5 | (XX) 1-Me-α-2-F-D-fructose (2,6) |
| 6) C14 H22 O9 | (XXI) | 1-Me-3,4,5-triacetyl-α-
Me-fructoside (2,6) p. 1019 | | 13) C12 H17 FO8 | β-2-F-triacetyl-D-fructose |
| 7) C8 H16 O6 | (XXII) | 1-Me-α-Me-D-fructoside (2,6) | | | |



- | | | |
|-------------------|--------|--|
| 1) C10 H14 O3 | (I) | 4-formyl-hexahydro-isochromanone-3 p. 1028 |
| 2) C16 H18 N4 O6 | | 2,4-DNP of 1 |
| 3) C12 H20 O4 | (II) | Me 3-methoxy-hexahydro-iso-chromane-4-carboxylate |
| 4) C11 H16 O3 | (III) | Me 3-hexahydro-isochromene-4-carboxylate p. 1029 |
| 5) C10 H14 O3 | (IV) | hexahydro-3-isochromene-4-carboxylic acid |
| 6) C13 H18 O5 | (V) | 4-ethoxalyl-hexahydro-3-isochromanone |
| 7) C19 H22 N4 O8 | | 2,4-DNP of 6 |
| 8) C15 H24 O6 | (VI) | di-Et 3-hydroxy-hexahydro-isochromane-3,4-dicarboxylate |
| 9) C15 H22 O5 | (VII) | di-Et hexahydro-3-isochromene-3,4-dicarboxylate |
| 10) C15 H24 O5 | (VIII) | di-Et hexahydro-isochromane-3,4-dicarboxylate p. 1030 |
| 11) C9 H12 N2 O2 | | dihydrocoumarin hydrazide |
| 12) C10 H8 O3 | (XI) | R= H 3-formyl-2-chromanone |
| 13) C12 H14 O4 | (XII) | R= Me R'= Me Me 2-methoxychromane-3-carboxylate p. 1030-31 |
| 14) C11 H10 O3 | (XIII) | R= " R'= " Me 1,4-chromene-3-carboxylate p. 1031 |
| 15) C13 H12 O5 | (XI) | COOC ₂ H ₅ 3-ethoxalyl-2-chromanone |
| 16) C19 H16 N4 O8 | | 2,4-DNP of 15 |
| 17) C15 H18 O6 | (XII) | COOC ₂ H ₅ Et H di-Et 2-hydroxychroman-2,3-dicarboxylate |
| 18) C15 H16 O5 | (XIII) | COOC ₂ H ₅ " di-Et 1-4-chromene-2,3-dicarboxylate |
| 19) C9 H12 O3 | (XIV) | H 3-formyl-hexahydro-2-coumaranone p. 1031-32 |
| 20) C15 H16 N4 O6 | | 2,4-DNP of 19 p. 1032 |
| 21) C11 H18 O4 | (XV) | H Me Me 2-methoxy-hexahydrocoumaran-3-carboxylate |
| 22) C10 H14 O3 | (XVI) | " " Me hexahydrocoumarone-3-carboxylate |
| 23) C12 H16 O5 | (XIV) | COOC ₂ H ₅ hexahydro-3-coumaranone |
| 24) C18 H20 N4 O8 | | 2,4-DNP of 23 |
| 25) C16 H26 O6 | (XV) | COOC ₂ H ₅ Et di-Et 2-ethoxy-hexahydrocoumaran-2,3-dicarboxylate |
| 26) C14 H20 O5 | (XVI) | COOC ₂ H ₅ " di-Et hexahydrocoumarone-2,3-dicarboxylate |
| 27) C15 H24 O7 | (XIX) | di-Et 2-ethoxy-2,7-dioxo-perhydro-indene-2,3-dicarboxylate p. 1033 |

1898

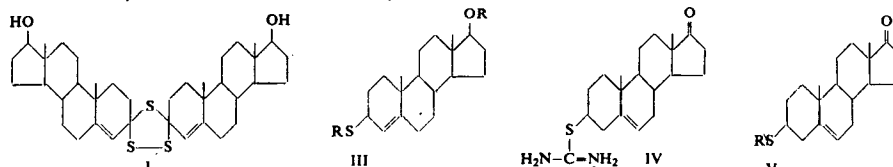
THE SYNTHESIS OF DIHYDROTHIOPYRAN AND DIHYDROTHIOPHENE-3-CARBOXYLIC ACIDS. F. Korte, and K.H. Buchel. (Univ. Bonn, Germany). Recd. Nov. 27, 1959. Chem. Ber. 93(5), 1021-1025(1960).



- R=
- 1) C₆ H₈ O₂ S (I) H α -hydroxymethylene- δ -thiol-valerolactone p. 1023
 - 2) C₇ H₁₀ O₂ S " Me α -acetyl- δ -thiol-valerolactone
 - 3) C₆ H₈ O₂ S (II) H 5,6-dihydro-4H-thiopyran-3-carboxylic acid
 - 4) C₇ H₁₀ O₂ S " Me 2-Me-5,6-dihydro-4H-thiopyran-3-carboxylic acid p. 1024
 - 5) C₇ H₆ O₃ S (IIc) 5,6-dihydro-4H-thiopyran-2,3-di-carboxylic acid anhydride
 - 6) C₅ H₆ O₂ S (IVb) H α -hydroxymethylene- δ -thiol butyrolactone
 - 7) C₆ H₈ O₂ S (IVc) Me α -acetyl- δ -thiol-butyrolactone
 - 8) C₈ H₁₀ O₂ S (III) di-thiabutolactone
 - 9) C₆ H₆ O₄ S (Va) 4,5-dihydrothiophene-2-3-dicarboxylic acid p. 1025
 - 10) C₅ H₆ O₂ S (V) H 4,5-dihydrothiophene-3-carboxylic acid
 - 11) C₆ H₈ O₂ S " Me 2-Me-4,5-dihydrothiophene-3-carboxylic acid

1899

STERIOD-THIOLS-(3). F.A. Kincl. (Syntex, S.A., Mexico City, Mexico). Recd. Dec. 8, 1959. Chem. Ber. 93(5), 1043-1046(1960).



- 1) C₃₈ H₅₆ O₂ S₃ (I) tri-thia deriv. of testosterone p. 1045
- 2) C₁₉ H₃₀ OS (IIIa) Δ^4 -androstene-thiol (3 β)-ol (17 β); R=H
- 3) C₂₃ H₃₄ O₃ S (IIIb) di-acetate of No. 2; R=CO-Me
- 4) C₂₇ H₃₈ N₂ O₄ S₂ (IV) Δ^5 -androstene-one(17)-thiuronium tosylate
- 5) C₁₉ H₂₈ OS (Va) Δ^5 -androstene-thiol (3 β)-one(17) p. 1045-46; R=H
- 6) C₂₁ H₃₀ O₂ S (Vb) acetate of No. 5; R=CO-Me p. 1046
- 7) C₂₇ H₄₀ O₄ S 17 α -Me-androstane-diol(3 β , 17 β) 3-monotosylate
- 8) C₂₁ H₃₆ N₂ OS·HCl 17 α -Me-androstane-ol (17 β)-thiuroniumchloride
- 9) C₂₀ H₃₄ OS 17 α -Me-androstane-thiol(3 β)-ol (17 β)

1900

A NEW SYNTHESIS OF 4-HYDROXY COUMARINS. P. Da Re and E. Sandri. (Recordati Lab. Farmacol., Milano, Italy). Recd. Jan. 15, 1960. Chem. Ber. 93(5), 1085-88(1960).

- 1) C₁₁ H₁₀ O₄ 3-Me-7-methoxy-4-hydroxy-coumarin p. 1087
- 2) C₁₁ H₁₀ O₃ 3,6-dimethyl-4-hydroxy-coumarin
- 3) C₁₃ H₈ O₃ 5,6-benzo-4-hydroxy-coumarin
- 4) C₁₄ H₁₀ O₃ 3-Me-5,6-benzo-4-hydroxy-coumarin
- 5) C₁₄ H₁₀ O₃ 3-Me-7,8-benzo-4-hydroxy-coumarin
- 6) C₁₀ H₈ O₃ 3-Me-4-hydroxy-coumarin p. 1088

1901

SALTS AND DERIVATIVES OF HYDRAZIDOTHIOPHOSPHORIC ACIDS. R. Klement and K.O. Knollmueller. (Univ. Munich, Bavaria). Recd. Jan. 18, 1960. Chem. Ber. 93(5), 1088-92(1960).

- 1) C₁₂ H₁₃ N₂ O₂ P₅ di Ph hydrazido thiophosphate p. 1090
- 2) H₃ N₂ Na₂ O₂ P₅ sodium hydrazido thiophosphate
- 3) H₆ N₄ NaOPS sodium dihydrazido thiophosphate p. 1091
- 4) H₆ KN₄ OPS potassium dihydrazido thiophosphate
- 5) C₁₅ H₁₇ N₂ O₂ P₅ di Ph isopropylidene-hydrazido thiophosphate
- 6) C₁₂ H₁₉ N₄ OPS Ph bis-[isopropylidene hydrazido] thiophosphate
- 7) H₂ NN₂ O₂ P₅ sodium amido thiophosphate p. 1091-2

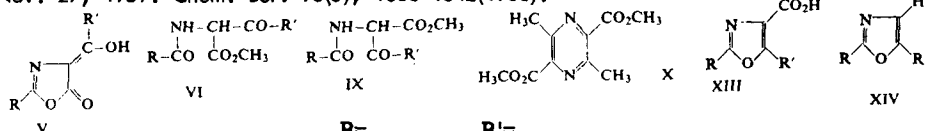
1902

PREPARATION OF METHYL-SILICON-ISOCYANATES. J. Goubeau and D. Paulin. (Technische Hochschule Stuttgart, Germany). Recd. Jan. 12, 1960. Chem. Ber. 93(5), 1111-1116(1960).

- 1) C₄ H₉ NOSi tri-Me-silicon-isocyanate p. 1112

1903

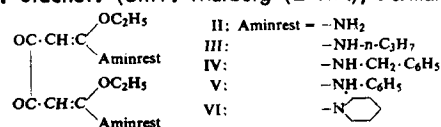
THE REARRANGEMENT OF 4-ACYL-5-OXAZOLONES. F. Korte and K. Storiko. (Univ. Bonn, Germany). Recd. Nov. 27, 1959. Chem. Ber. 93(5), 1033-1042(1960).



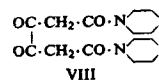
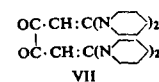
			R=	R' =	
1) C10 H7 NO3	(XIII)	Ph	H		2-Ph-oxazole-4-carboxylic acid p. 1038
2) C7 H11 NO4	(IX)	Me	Me		Me α -acetamino-acetoacetate
3) C5 H7 NO3					acrylo-glycine p. 1038-39
4) C12 H13 NO4	(VI)	Ph	"		Me α -benzoylamino acetoacetate p. 1039
5) C11 H9 NO3	(V)	"	"		4-[1-hydroxy-ethylidene]-2-Ph-5-oxazolone
6) C11 H9 NO3	(XIII)	"	"		5-Me-2-Ph-oxazole-4-carboxylic acid
7) C12 H11 NO3	"	Ph·CH ₂	"		5-Me-2-benzyl-oxazole-4-carboxylic acid p. 1039-40
8) C13 H15 NO4	(IX)	PhCH ₂	"		Me α -Ph-acetylamino-acetoacetate p. 1040
9) C11 H11 NO	(XIV)	PhCH ₂	"		5-Me-2-benzyl-oxazole and picrate
10) C10 H12 N2 O4	(X)				di-Me 3,6-di-Me-pyrazine-2,5-dicarboxylate
11) C14 H15 NO4					Me α -cinnamoylamino-acetoacetate
12) C13 H11 NO3	(XIII)	PhCH=CH	"		5-Me-2-styryl-oxazole-4-carboxylic acid p. 1041
13) C11 H9 NO3	"	Me	Ph		2-Me-5-Ph-oxazole-4-carboxylic acid
14) C16 H11 NO3	"	Ph	Ph		2,5-di-Ph-oxazole-4-carboxylic acid
15) C18 H15 NO3			C ₆ H ₄ COOH(ortho)		Et ester of No. 14
16) C17 H11 NO5	(V)	Ph			2-Ph-4[-2-carboxy-benzoyl]-5-oxazolone
17) C17 H11 NO5	(XIII)	"	C ₆ H ₄ ·COOH(ortho)		2-Ph-5[2-carboxy-Ph]-oxazole-4-carboxylic acid p. 1042
18) C19 H15 NO5					di-Me ester of No. 17

1904

OXALYL-KETENE-O,N-ACETALS AND OXALYL-KETENEAMINALS. H.D. Stachel. (Univ. Marburg (LAHN), Germany). Recd. Dec. 23, 1959. Chem. Ber. 93(5), 1059-1063(1960).



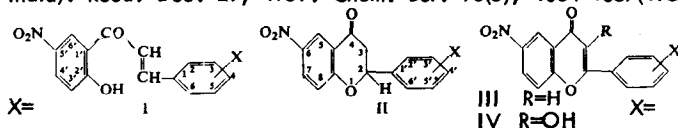
1) C10 H16 N2 O4	(II)	oxalyl-ketene-diamino-O,N-acetal	p. 1062
2) C16 H28 N2 O4	(III)	oxalyl-ketene-bis-n-propylamino-O,N-acetal	
3) C24 H28 N2 O4	(IV)	oxalyl-ketene-bis-benzylamino-O,N-acetal	p. 1063
4) C22 H24 N2 O4	(V)	oxalyl-ketene-dianilino-O,N-acetal	
5) C20 H32 N2 O4	(VI)	oxalyl-ketene-di-piperidino-O,N-acetal	
6) C26 H42 N4 O2	(VII)	oxalyl-ketene-tetra-piperidino-aminal	
7) C16 H24 N2 O4	(VIII)	3,4-di-oxo-adipic acid-di-piperidide	
8) C12 H20 N2 O4		3,4-di-oxo-adipic acid-di-n-Pr-amide	
9) C18 H16 N2 O4		3,4-di-oxo-adipic acid-dianilide	



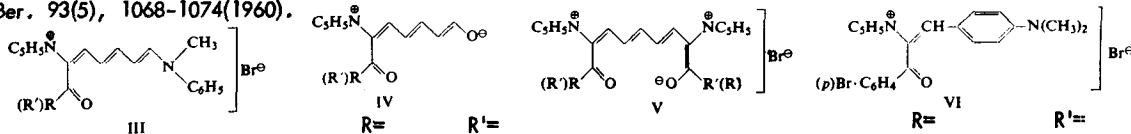
1905

REACTION OF SILICON-ISOCYANATES WITH AMINES. J. Goubeau and E. Heubach. (Technische Hochschule, Stuttgart, Germany). Recd. Jan. 12, 1960. Chem. Ber. 93(5), 1117-1125(1960).

1) C8 H20 N2 OSi	N,N-di-Et-N'-(tri-Me-silyl)-urea	p. 1122
2) C12 H28 N2 OSi	N,N-di-n-Bu-N'-(tri-Me-silyl)-urea	p. 1123
3) C9 H20 N2 O	N,N-di-Bu-urea	
4) C6 H16 N2 OSi	N,N-di-Me-N'-(tri-Me-silyl)-urea	
5) C12 H28 N4 O2 Si	di-Me-bis[N',N'-di-Et-ureido]-silane	
6) C16 H36 N6 O3 Si	Me-tris[N',N'-di-Et-ureido]-silane	p. 1124
7) C20 H44 N8 O4 Si	tetrakis[N',N'-di-Et-ureido]-silane	
8) C16 H14 N6 O4 Si	bis-[N'-Ph-ureido]silicon-di-isocyanate	
9) C28 H28 N8 O4 Si	tetrakis-[N'-Ph-ureido]-silane	



- | | | | | | | | |
|---|------|------------|---------|---|-------|--------------|---------|
| 1) C ₁₅ H ₁₁ NO ₅ | (I) | 2-HO | p. 1065 | 22) C ₁₆ H ₁₃ NO ₅ | (II) | 2'-MeO | |
| 2) C ₁₉ H ₁₅ NO ₇ | | Ac of 1 | | 23) C ₁₇ H ₁₅ NO ₆ | " | 3',4'-di-MeO | |
| 3) C ₂₉ H ₁₉ NO ₇ | | Bz of 1 | | 24) C ₁₆ H ₁₂ CLNO ₅ | " | 3'-Cl-4'-MeO | |
| 4) C ₁₅ H ₁₁ NO ₅ | " | 3-OH | | 25) C ₁₅ H ₉ NO ₅ | (III) | 2'-HO | |
| 5) C ₁₉ H ₁₅ NO ₇ | | Ac of 4 | | 26) C ₁₅ H ₉ NO ₅ | " | 3'-HO | |
| 6) C ₂₉ H ₁₉ NO ₇ | | Bz of 4 | | 27) C ₁₅ H ₉ NO ₅ | " | 4'-HO | |
| 7) C ₁₅ H ₁₁ NO ₅ | " | 4-OH | | 28) C ₁₆ H ₁₁ NO ₅ | " | 2'-MeO | |
| 8) C ₁₉ H ₁₅ NO ₇ | | Ac of 7 | | 29) C ₁₇ H ₁₃ NO ₆ | " | 3',4'-di-MeO | |
| 9) C ₂₉ H ₁₉ NO ₇ | | Bz of 7 | | 30) C ₁₆ H ₁₀ CLNO ₅ | " | 3'-Cl-4'-MeO | |
| 10) C ₁₆ H ₁₃ NO ₅ | " | 2-MeO | | 31) C ₁₅ H ₉ NO ₆ | (IV) | 2'-HO | p. 1067 |
| 11) C ₁₈ H ₁₅ NO ₆ | | Ac of 10 | | 32) C ₁₉ H ₁₃ NO ₈ | | Ac of 31 | |
| 12) C ₂₃ H ₁₇ NO ₆ | | Bz of 10 | | 33) C ₁₅ H ₉ NO ₆ | " | 3'-HO | |
| 13) C ₁₇ H ₁₅ NO ₆ | " | 3,4-di-MeO | | 34) C ₁₉ H ₁₃ NO ₈ | | Ac of 33 | |
| 14) C ₁₉ H ₁₇ NO ₇ | | Ac of 13 | | 35) C ₁₅ H ₉ NO ₆ | " | 4'-HO | |
| 15) C ₂₄ H ₁₉ NO ₇ | | Bz of 14 | | 36) C ₁₉ H ₁₃ NO ₈ | | Ac of 35 | |
| 16) C ₁₆ H ₁₂ CLNO ₅ | " | 3-Cl-4-MeO | | 37) C ₁₆ H ₁₁ NO ₆ | " | 2'-MeO | |
| 17) C ₁₈ H ₁₄ CLNO ₆ | | Ac of 16 | | 38) C ₁₈ H ₁₃ NO ₇ | | Ac of 37 | |
| 18) C ₂₃ H ₁₆ CLNO ₆ | | Bz of 16 | | 39) C ₁₇ H ₁₃ NO ₇ | " | 3',4'-di-MeO | |
| 19) C ₁₅ H ₁₁ NO ₅ | (II) | 2'-HO | p. 1066 | 40) C ₁₉ H ₁₅ NO ₈ | | Ac of 39 | |
| 20) C ₁₅ H ₁₁ NO ₅ | " | 3'-HO | | 41) C ₁₆ H ₁₀ CLNO ₆ | " | 3'-Cl-4'-MeO | |
| 21) C ₁₅ H ₁₁ NO ₅ | " | 4'-HO | | 42) C ₁₈ H ₁₂ CLNO ₇ | | Ac of 41 | |

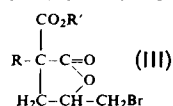


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|--|-------|----------|-----------|--|------------------------------------|------------|--------------------|
| 1) C ₂₅ H ₂₂ BR ₂ N ₂ O | (III) | p-Br-Ph | p. 1071 | 7) C ₂₆ H ₂₂ BR ₂ N ₂ O ₂ (V) | p-Br-Ph | Me | |
| 2) C ₃₁ H ₂₇ BRN ₂ O | " | p-Ph-Ph- | p. 1072 | 8) C ₃₇ H ₂₈ BR ₂ N ₂ O ₂ | " | p-Ph-Ph- | |
| 3) C ₁₈ H ₁₄ BRNO ₂ | (IV) | p-Br-Ph | | 9) C ₄₃ H ₃₃ BRN ₂ O ₂ | " | p-Ph-Ph- | p. 1073-4 |
| 4) C ₂₄ H ₁₉ NO ₂ | " | p-Ph-Ph- | | 10) C ₃₅ H ₂₆ BR ₂ N ₂ O ₂ | " | p-Br-Ph | β-naphthyl p. 1074 |
| 5) C ₃₁ H ₂₃ BR ₃ N ₂ O ₂ | (V) | p-Br-Ph | p-Br-Ph | 11) C ₃₉ H ₂₉ BRN ₂ O ₂ | " | β-naphthyl | " |
| 6) C ₂₉ H ₂₂ BR ₂ N ₂ O ₂ S | " | " | α-thienyl | 12) C ₂₂ H ₂₀ BR ₂ N ₂ O (VI) | 1-[p-diMe-amino-Ph]-2-pyridino- | | |
| | | | p. 1073 | | 3-[p-Br-Ph]-propen-1-one-3-bromide | | |

- | | | |
|--|------------------------------------|-----------|
| 1) C ₁₃ H ₁₀ O ₄ S | m-benzene-sulfonyloxy-benzaldehyde | p. 1126-7 |
| 2) C ₁₉ H ₁₅ N ₃ O ₅ S | p-nitro-Ph-hydrazone of 1 | p. 1127 |
| 3) C ₁₉ H ₁₄ N ₄ O ₇ S | 2,4-DNP of 1 | |
| 4) C ₁₃ H ₁₀ O ₅ S | m-benzene-sulfonyloxy-benzoic acid | |
| 5) C ₁₃ H ₁₀ O ₄ S | p-benzene-sulfonyloxy-benzaldehyde | |
| 6) C ₁₉ H ₁₄ N ₄ O ₇ S | 2,4-DNP of 5 | |
| 7) C ₁₉ H ₁₅ N ₃ O ₅ S | p-nitro-Ph-hydrazone of 5 | |
| 8) C ₁₃ H ₁₀ O ₅ S | p-benzene-sulfonyloxy-benzoic acid | |
| 9) C ₁₅ H ₁₁ NO ₂ | N,N-phthalyl-toluidine | p. 1128 |
| 10) C ₁₅ H ₉ NO ₄ | N,N-phthalyl-p-amino-benzoic acid | |
| 11) C ₁₅ H ₉ NO ₃ | N,N-phthalyl-p-amino-benzaldehyd | |
| 12) C ₂₁ H ₁₃ N ₅ O ₆ | 2,4-DNP of 11 | |
| 13) C ₂₁ H ₁₄ N ₄ O ₄ | p-nitro-Ph-hydrazone of 11 | |

1909

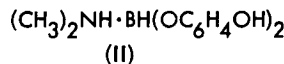
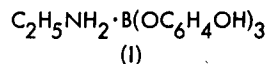
THE INFLUENCE OF α -SUBSTITUENTS UPON THE LACTONIZATION OF γ , δ -UNSATURATED ACIDS AT THE REACTION WITH HALOGENS. M. De Moura Campos. (Univ. Sao Paulo, Brazil). Recd. Oct. 30, 1959. Chem. Ber. 93(5), 1075-77(1960).



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|-----------------|-------|-------|--------|---|---------|
| 1) C9 H13 BRO4 | (III) | R= Me | R'= Et | α -Me- α -carbethoxy- δ -bromo- γ valerolactone | p. 1076 |
| 2) C10 H15 BRO4 | " | Et | " | | |
| 3) C12 H19 BRO4 | " | n-Bu | " | | |
| 4) C14 H15 BRO4 | " | Ph | " | | |

1910

REDUCTION OF FUNCTIONAL ORGANIC GROUPS BY ALKYLAMINE-BORANES. H. Noeth and H. Beyer. (Univ. Munich, Bavaria). Recd. Jan. 12, 1960. Chem. Ber. 93(5), 1078-84(1960).



- | | | | |
|-----------------|------|---|---------|
| 1) C16 H22 BNO4 | | tert-butylamine adduct of bis-[p-hydroxy-phenyloxy]borane | p. 1082 |
| 2) C20 H22 BNO6 | (I) | et-amine-tris[p-hydroxy-Ph]borate | |
| 3) C14 H18 BNO4 | (II) | di-Me-amine adduct of bis-[p-hydroxy-phenyloxy]borane | |
| 4) C18 H15 BO6 | | tris-[p-hydroxy-Ph]borate | p. 1083 |
| 5) C11 H20 BNO | | tert-butylamine-benzyloxy-borane | p. 1084 |
| 6) C8 H24 BCLN2 | | tert-butylamine adduct of chloroborane | |
| 7) C2 H12 BCLN2 | | Me-amine adduct of chloroborane | |
| 8) C6 H20 BCLN2 | | n-propylamine adduct of chloroborane | |

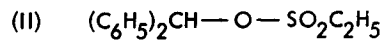
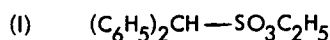
1911

CONTRIBUTION TO THE AROMATIC COMPLEX FORMATION OF PYRIDINE WITH CHROMO-HEXA-CARBONYL. E. Fischer, and K. Ofele. (Tech. Hochschule, Munchen, Bavaria). Recd. Feb. 3, 1960. Chem. Ber. 93(5), 1156-61(1960).

- | | | | |
|------------------|-------------------------------------|-----------|---------|
| 1) C11 H8 CrINO5 | N-Me-pyridinium-iodo-pentacarbonylo | chromate | p. 1160 |
| 2) C11 H8 IMoNO5 | " " " " " | molybdate | |
| 3) C11 H8 INO5 W | " " " " " | tungstate | |
| 4) C9 H7 CrNO3 | C-Me-pyridine-chromo(O)-tricarboxyl | | p. 1161 |

1912

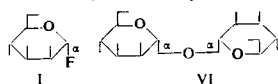
ESTERS OF SULFUROUS AND SELENOUS ACIDS. G. Hesse and S. Majmudar. (Univ. Erlangen, Germany). Recd. Dec. 31, 1959. Chem. Ber. 93(5), 1129-37(1960).



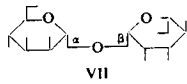
- | | | |
|------------------|------------------------------------|---------|
| 1) C2 H6 O3 S | di-Me sulfite | p. 1133 |
| 2) C3 H8 O3 S | Me-Et sulfite | |
| 3) C4 H10 O3 S | Me-iso-Pr-sulfite | |
| 4) C5 H12 O3 S | Me-tert-Bu sulfite | p. 1134 |
| 5) C7 H14 O3 S | Me-cyclohexyl sulfite | |
| 6) C7 H14 O | Me-cyclohexyl ether | |
| 7) C8 H10 O3 S | Me-benzyl sulfite | |
| 8) C8 H10 O | Me-benzyl ether | |
| 9) C2 H4 O3 S | glycol sulfite | |
| 10) C15 H16 O3 S | (I) | |
| 11) C15 H16 O3 S | (II) | |
| 12) C15 H16 O | benzhydryl-Et-ether | |
| 13) C2 H6 O3 Se | di-Me selenite | p. 1135 |
| 14) C3 H8 O3 Se | Me-Et selenite | |
| 15) C5 H10 O3 | Et MeO-acetate | |
| 16) C6 H12 O4 | Et β -hydroxy-ethoxy-acetate | |
| 17) C10 H18 O6 | ethylene-bis[Et-hydroxy-acetate] | |
| 18) C6 H12 N2 O4 | ethylene-bis[hydroxy-acetamide] | p. 1136 |
| 19) C10 H18 O3 | Et cyclohexyloxy-acetate | |
| 20) C8 H15 NO2 | cyclohexyloxy-acetamide | |
| 21) C6 H12 O3 | Et EtO-acetate | |
| 22) C6 H12 O5 Se | Et carbethoxy-Me-selenite | |
| 23) C6 H12 O4 | Et β -hydroxy-ethoxy-acetate | p. 1137 |

1913

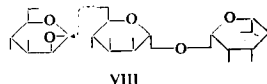
A NEW METHOD OF SYNTHESIZING HIGHER SACCHARIDES. F. Micheel and D. Borrmann. (Univ. Munster, Westfalen, Germany). Recd. Jan. 29, 1960. Chem. Ber. 93(5), 1143-7(1960).



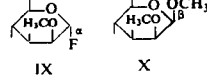
VI



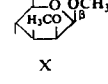
VII



VIII



IX

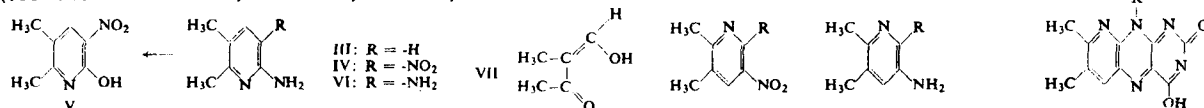


X

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|-----------------|---|---------|
| 1) C6 H11 FO5 | (I) | p. 1146 |
| 2) C12 H22 O11 | (VI) | |
| 3) C28 H38 O19 | octa-acetyl deriv. of 2 | |
| 4) C12 H22 O11 | (VII) | |
| 5) C28 H38 O19 | octa-acetyl deriv. of 4 | |
| 6) C18 H32 O16 | (VIII) | |
| 7) C40 H54 O27 | undeca-acetyl deriv. of 6 | |
| 8) C15 H22 O10 | 1,3,4,6-tetra-acetyl-2-Me-D-mannose | p. 1147 |
| 9) C7 H13 FO5 | (IX) | |
| 10) C13 H19 FO8 | α -1-fluoro-3,4,6-triacetyl-2-Me-D-mannose | |
| 11) C8 H16 O6 | (X) | |
| 12) C14 H22 O9 | tri-acetate of 11 | |

1914

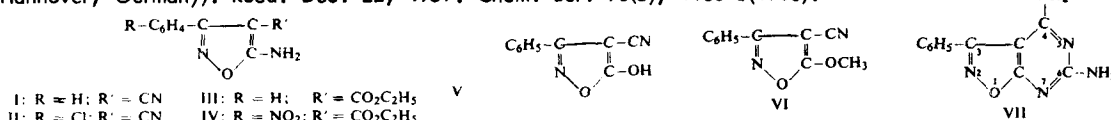
PREPARATION OF SOME 9-SUBSTITUTED 6,7-DIMETHYL-8-AZA-ISOALLOXAZINES. A. Dornow and E. Rohe. (Technische Hochschule, Hannover, Germany). Recd. Dec. 22, 1959. Chem. Ber. 93(5), 1093-1102(1960).



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|---------------------------|--------------------------|---|---|
| 1) C7 H8 N2 O3 (V) | 15) C11 H19 N3 (XIa) | IX: R = -Cl
X (a-i) | 29) C17 H12 FN5 O2 (XIIg) |
| 2) C7 H10 N2 (III) | 16) C9 H15 N3 O (XIb) | a: R = -NH-CH ₂ -CH ₂ -CH ₂ -CH ₃ | 30) C17 H11 F2 N5 O2 (XIIh) |
| 3) C7 H9 N3 O2 (IV) | 17) C10 H17 N3 O (XIc) | b: R = -NH-CH ₂ -CH ₂ OH | 31) C15 H15 N5 O4 (XIIk) |
| 4) C7 H11 N3 (VI) | 18) C13 H15 N3 (XIe) | c: R = -NH-CH ₂ -CH ₂ -CH ₂ OH | 32) C17 H17 N5 O6 (XIIl) |
| 5) C7 H7 CLN2 O2 (IX) | 19) C14 H17 N3 (XIe) | d: R = -NH-C ₆ H ₅ | 33) C7 H9 N3 O2 2-nitramino-5,6-di-Me-pyridine |
| 6) C11 H17 N3 O2 (Xa) | 20) C15 H19 N3 (XIe) | e: R = -NH-CH ₂ -C ₆ H ₅ | 34) C7 H8 N4 5,6-di-Me[4',5'-triazolo-2,3-pyridine] |
| 7) C9 H13 N3 O3 (Xb) | 21) C13 H14 FN3 (XIg) | f: R = -NH-CH ₂ -CH ₂ -C ₆ H ₅ | 35) C21 H15 N3 6,7-di-Me-1,2,3,4-di-benzo-5,9,10-triazaanthracene |
| 8) C10 H15 N3 O3 (Xc) | 22) C13 H23 N3 O5 (XIi) | g: R = -NH-C ₆ H ₅ F(4) | |
| 9) C13 H13 N3 O2 (Xd) | 23) C15 H17 N5 O2 (XIla) | h: R = -NH-C ₆ H ₅ F ₂ (3,4) | |
| 10) C14 H15 N3 O2 (Xe) | 24) C13 H13 N5 O3 (XIlb) | i: R = -NH-CH ₂ [CHOH] ₄ -CH ₂ OH | |
| 11) C15 H17 N3 O2 (Xf) | 25) C14 H15 N5 O3 (XIlc) | | |
| 12) C13 H12 FN3 O2 (Xg) | 26) C17 H13 N5 O2 (XIId) | | |
| 13) C13 H11 F2 N3 O2 (Xh) | 27) C18 H15 N5 O2 (XIle) | | |
| 14) C13 H21 N3 O7 (Xi) | 28) C19 H17 N5 O2 (XIIf) | | |

1915

PREPARATION AND REACTIONS OF SOME ISOXAZOLES. A. Dornow and H. Teckenburg. (Tech. Hochschule, Hannover, Germany). Recd. Dec. 22, 1959. Chem. Ber. 93(5), 1103-5(1960).



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|------------------------|-----------|----------------------|-------------------------------------|
| 1) C10 H7 N3 O (I) | p. 1104 | 5) C10 H6 N2 O2 (V) | p. 1105 |
| 2) C10 H6 CLN3 O (II) | | 6) C11 H8 N2 O2 (VI) | |
| 3) C12 H12 N2 O3 (III) | | 7) C11 H9 N5 O (VII) | |
| 4) C12 H11 N3 O5 (IV) | p. 1104-5 | 8) C15 H15 N3 O | 5-piperidino-3-Ph-4-cyano-isoxazole |

1916

SYNTHESIS OF SOME PYRAZOLO[3,4-b]PYRIDINES. A. Dornow and M. Siebrecht. (Tech. Hochschule, Hannover, Germany). Recd. Dec. 22, 1959. Chem. Ber. 93(5), 1106-10(1960).

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|----------------------|---|----------------------|---------------|
| 1) C7 H7 N3 O2 (Ia) | R= R'= R''= OH H Me p. 1108 | (I) | |
| 2) C6 H5 N3 O3 (Ib) | " " OH | (II) | |
| 3) C7 H7 N3 O (Ic) | Me " H | (IV) | |
| 4) C12 H9 N3 O (Id) | Ph " " p. 1109 | (V) | |
| 5) C8 H9 N3 O (Ie) | Me Me " | (VI) | |
| 6) C8 H9 N3 O (II) | " " " | 9) C8 H11 N3 O (IV) | p. 1110 |
| 7) C8 H9 N3 O " | H " Me R''= | 10) C8 H10 N2 O2 (V) | |
| 8) C10 H11 N3 O (If) | R+R'=-C ₄ H ₈ - H | 11) C7 H10 N2 (VI) | (and picrate) |

1917

NOTE TO THE PREPARATION OF 1,3,4,6-TETRAMETHYL-FRUCTOFURANOSE. H. Brederick and O. Mueller. (Tech. Hochschule, Stuttgart, Germany) Recd. Dec. 2, 1959. Chem. Ber. 93(5):1246-48(1960).

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|--|---------|--|
| 1) C9 H16 O5 tri-Me-inulin | p. 1247 | 3) C11 H22 O6 1,3,4,6-tetra-Me-Me-fructofuranoside |
| 2) C9 H18 O6 3,4,6-tri-Me-fructofuranose | p. 1248 | 4) C10 H20 O6 1,3,4,6-tetra-Me-fructofuranose |
| | | 5) C10 H20 O6 3,4,6-tri-Me-Me-fructofuranoside |

1918

NOTE ON THE USE OF GLYCOL-SULFITE FOR THE PREPARATION OF ETHYLENE-KETALS. G. Hesse and M. Forderreuther. (Univ. Erlangen, Germany) Recd. Jan. 19, 1960. Chem. Ber. 93(5):1249-51(1960).

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|---|---------|---|
| 1) C9 H10 O2 benzaldehyde ethylene-acetal | p. 1250 | 3) C6 H12 O2 Me-Et-ketone-ethylene-ketal |
| 2) C8 H14 O2 cyclohexanone-ethylene-ketal | | 4) C8 H14 O4 Et acetoacetate-ethylene-ketal |
| | | p. 1251 |