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Indexes for this issue are included in the third cumulative index issue.

PUBLICATIONS INDEXED IN THIS ISSUE . . .

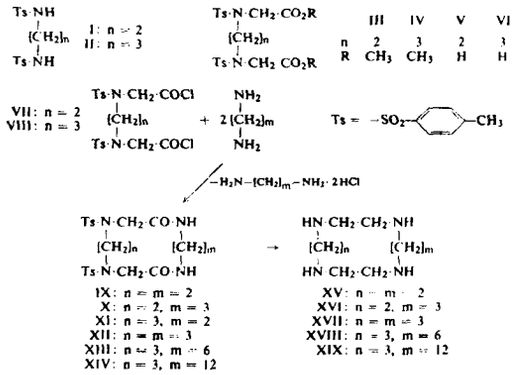
10816

NICKEL BIS(ACRYLONITRILE). V. REACTIONS OF NICKEL ACRYLONITRILE COMPLEXES WITH ALKINES. ELUCIDATION OF THE ACTION OF REPPE CATALYSTS.
G. N. Schrauzer.
Univ., Munich, Ger. Recd. Sept. 24, 1960.
Chem. Ber. 94(6),1403-9(1961).

1) C31 H21 N 2,3,4,5-tetra-Ph-benzonitrile p. 1408
2) C42 H30 hexa-Ph-benzene p. 1409
3) C31 H22 O product of reaction of tolan + bis-(acrolein)-Ni(O)

10817

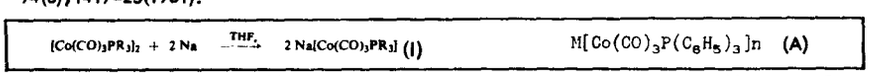
MACROCYCLIC RING SYSTEMS. VII. PREPARATION AND PROPERTIES OF MACROCYCLIC TETRAMINES.
H. Stetter, K. H. Mayer.
Univ., Munich, Ger. Recd. Oct. 17, 1960.
Chem. Ber. 94(6),1410-6(1961).



1) C17 H22 N2 O4 S2 (II) p. 1413
2) C22 H28 N2 O8 S2 (III)
3) C23 H30 N2 O8 S2 (IV)
4) C20 H24 N2 O8 S2 (V)
5) C21 H26 N2 O8 S2 (VI)
6) C20 H22 CL2 N2 O6 S2 (VII)
7) C21 H24 CL2 N2 O6 S2 (VIII)
8) C22 H28 N4 O6 S2 (IX) p. 1414
9) C23 H30 N4 O6 S2 (X)
10) C23 H30 N4 O6 S2 (XI)
11) C24 H32 N4 O6 S2 (XII)
12) C27 H38 N4 O6 S2 (XIII) (& adduct of (XIII) & toluene 1:1) p. 1415
13) C33 H50 N4 O6 S2 (XIV)
14) C8 H20 N4 (XV)
15) C9 H22 N4 (XVI) p. 1416
16) C10 H24 N4 (XVII)
17) C13 H30 N4 (XVIII)
18) C19 H42 N4 (XIX)
19) C36 H44 N4 O8 S4 tetra-Tos deriv. of (XV) p. 1415
20) C37 H46 N4 O8 S4 " (XVI) p. 1416
21) C38 H48 N4 O8 S4 " (XVII)
22) C41 H54 N4 O8 S4 " (XVIII)
23) C47 H66 N4 O8 S4 " (XIX)

10818

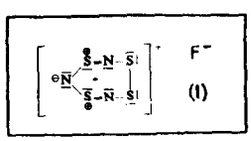
PHOSPHINE SUBSTITUTED CARBONYL-COBALTATES (-I), METHYL- AND HYDROGEN COBALT CARBONYLS.
W. Hieber, E. Lindner.
Tech. Hochschule, Munich, Ger. Recd. Dec. 22, 1960.
Chem. Ber. 94(6),1417-25(1961).



			M =	n =				M =	n =	R =
1)	C21 H16 Co O3 P	(A)	H	1	7)	C21 H15 Co Na O3 P	(A)	Na	1	
2)	C42 H30 Co2 Cu O6 P2	"	Cu	2	8)	C21 H15 Co Na O6 P	(I)			OPh
3)	C42 H30 Co2 Hg O6 P2	"	Hg	"	9)	C78 H54 Co2 N6 Ni O12 P2				$[Ni(o\text{-phenanthroline})_3][Co(CO)_3P(OPh)_3]_2$
4)	C42 H30 Co2 O6 P2 Pb	"	Pb	"	10)	C78 H54 Co2 N6 Ni O6 P2				$[Ni(o\text{-phenanthroline})_3][Co(CO)_3P(Ph)_3]_2$
5)	C21 H15 Co O3 P Tl	"	Tl	1	11)	C4 Co Na O4				$Na[Co(CO)_4]$
6)	C21 H15 Ag Co O3 P	"	Ag	"	12)	C32 H48 Co3 O14				$[Co(C_4H_8O)_6][Co(CO)_4]_2$
					13)	C22 H18 Co O6 P				$MeCo(CO)_3P(OPh)_3$
					14)	C22 H18 Co O3 P				$MeCo(CO)_3PPh_3$

10819

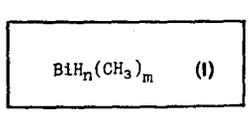
SULFUR-NITROGEN-FLUORINE COMPOUNDS. XII. PREPARATION AND PROPERTIES OF THIOTRITHIAZYL FLUORIDE.
O. Glemser, E. Wyszomirski.
Univ., Goettingen, Ger. Recd. Jan. 2, 1961.
Chem. Ber. 94(6),1443-6(1961).



1) F N3 S4 (I) (as 1.5 HF) p. 1445

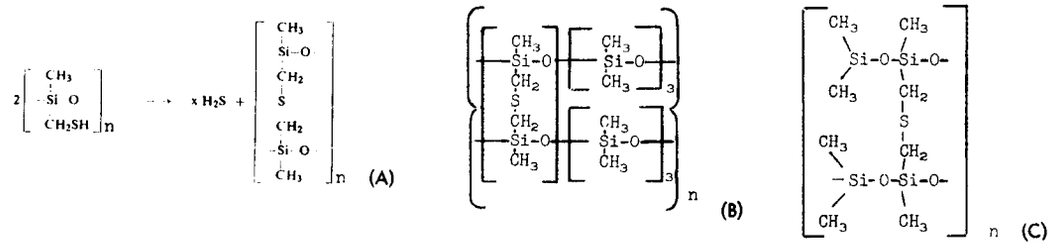
10820

BISMUTH HYDRIDES.
E. Amberger.
Univ. Munich, Ger. Recd. Jan. 3, 1961.
Chem. Ber. 94(6),1447-52.

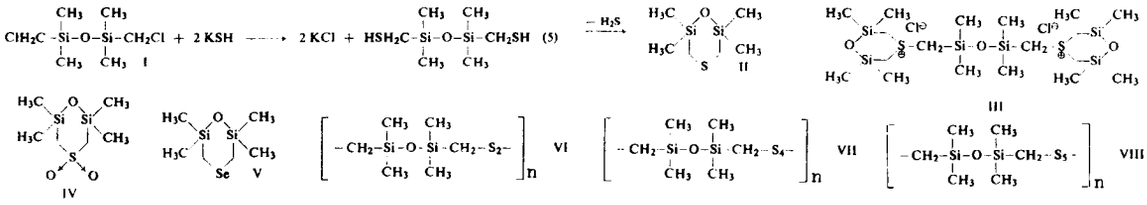


			n =	m =					n =	m =	
1)	C3 H9 Bi	(I)	0	3	p. 1449	3)	C2 H7 Bi	(I)	1	2	
2)	C H5 Bi	"	2	1	p. 1451	4)	Bi H3	"	3	0	p. 1452

10821 VULCANIZATION OF SILICONES.
M. Schmidt, M. Wieber.
Univ., Munich, Ger. Recd. Dec. 24, 1960.
Chem. Ber. 94(6), 1426-36(1961).



(A) (B) (C)

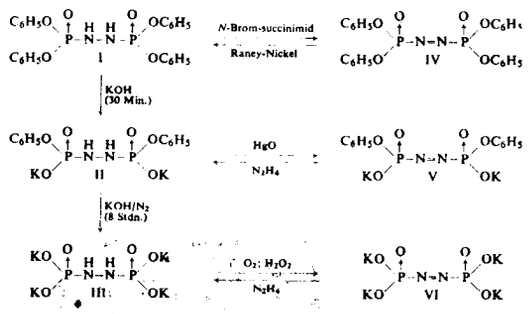


I II III IV V VI VII VIII

n =

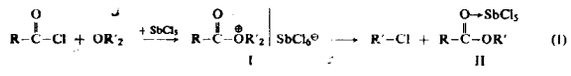
1)	(C6 H16 O S2 Si2)n	(VI)	5	p. 1435	7)	(C6 H16 O S5 Si2)n (VIII)	p. 1436
2)	(C6 H16 O S4 Si2)n	(VII)	"		8)	(C4 H10 O2 S Si2)n (A)	p. 1434
3)	C6 H16 O3 S Si2	(IV)		p. 1433	9)	(C16 H46 O8 S Si8)n (B)	
4)	C6 H16 O Se Si2	(V)			10)	(C8 H22 O4 S Si4)n (C)	
5)	C6 H16 O S Si2	(II)		p. 1432	11)	C7 H19 I O S Si2	S-MeI of (II) p. 1432
6)	C18 H48 CL2 O3 S2 Si6	(III)			12)	C7 H19 I O Se Si2	Se-MeI of (V) p. 1433

10822 NEW INORGANIC AZO COMPOUNDS: DERIVATIVES OF AZODIPHOSPHONIC ACID.
H. Bock, G. Rudolph.
Univ., Munich, Ger. Recd. Jan. 4, 1961.
Chem. Ber. 94(6), 1457-64(1961).



1)	C24 H22 N2 O6 P2	(I)		p. 1461
2)	C12 H14 N2 O6 P2	(II)	(as K salt)	p. 1462
3)	H6 N2 O6 P2	(III)	"	
4)	C24 H20 N2 O6 P2	(IV)		
5)	C12 H12 N2 O6 P2	(V)	(as K salt)	p. 1463
6)	H4 N2 O6 P2	(VI)	"	

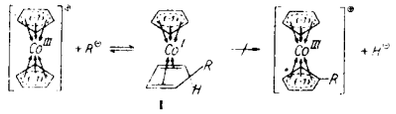
10823 OXONIUM SALTS CAPABLE OF FRIEDEL-CRAFTS REACTIONS.
F. Klages, E. Muehlbauer, G. Lukasczyk.
Univ., Munich, Ger. Recd. Jan. 9, 1961.
Chem. Ber. 94(6), 1464-9(1961).



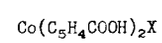
(I)

		R =	R' =	
1)	C6 H13 CL6 O2 Sb (I)	Me	Et	p. 1467
2)	C4 H9 CL6 O2 Sb	"	Me	p. 1468
3)	C7 H15 CL6 O2 Sb	"	Et	Et

10824 AROMATIC COMPLEXES OF METALS. XLIV. REACTIVITY OF THE DICYCLOPENTADIENYL COBALT (III) CATION.
E. O. Fischer, G. E. Herberich.
Univ., Munich, Ger. Recd. Jan. 16, 1961.
Chem. Ber. 94(6), 1517-23(1961).



I a: R = H- b: R = D- c: R = CH_3-
d: R = CCl_3- e: R = C_6H_5CO- f: R = C_6H_5-



(A)

C_5H_4COOH = cyclopentadienylcarboxylic acid

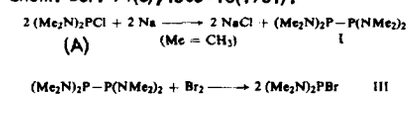
X =

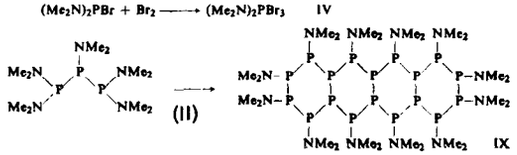
1)	C17 H15 Co O	(Ie)		4)	C12 H10 CL Co O8	(A)	X= ClO_4
2)	C16 H15 Co	(If)		5)	C24 H16 Ag3 CL Co2 O12		$\{Ag[Co(C_5H_4CO_2)_2]\}_2AgClO_4$
3)	C12 H10 Br Co O4	(A)	Br	6)	C28 H28 Co2 Mn O22		$[(0.9\ Mn, 0.1\ Co)(H_2O)_6][Co(C_5H_3CO_2HCO_2)_2]_2$

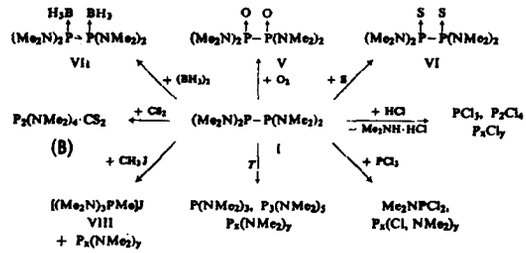
10825 THE CHEMISTRY OF METAL CARBONYLS IN LIQUID AMMONIA. VIII. DIHYDROGEN HEXACARBONYL DINICKOLATE (-1). 2ND PART.
H. Behrens, H. Zizlsperger, R. Rauch.
Techn. Hochschule, Munich, Ger. Recd. Jan. 2, 1961.
Chem. Ber. 94(6), 1497-1505(1961).

1) C13 H13 N Ni4 O9 $(NMe_4)[Ni_4(CO)_9H]$ p. 1503
2) C17 H24 N2 Ni4 O9 $(NMe_4)_2[Ni_4(CO)_9]$ p. 1502
3) C38 H30 Ni O2 P2 $Ni(CO)_2(Ph_3P)_2$ p. 1505

10826 DIALKYLAMINO-PHOSPHANES, I. PREPARATION AND PROPERTIES OF TETRAKIS(DIMETHYLAMINO)DIPHOSPHANE AND PENTAKIS(DIMETHYLAMINO)TRIPHOSPHANE.
H. Noeth, J. J. Vetter.
Univ., Munich, Ger. Recd. Jan. 12, 1961.
Chem. Ber. 94(6), 1505-16(1961).





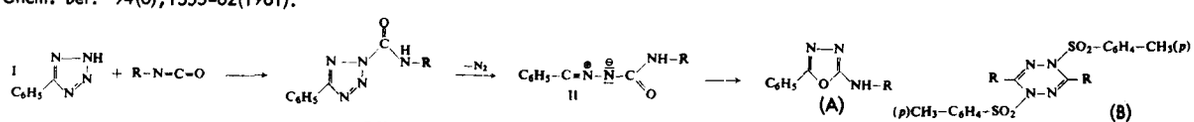


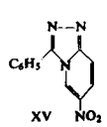
1) C8 H24 N4 P2 (I) p. 1513
2) C10 H30 N5 P3 (II)
3) C4 H12 Br N2 P (III) p. 1514
4) C4 H12 Br3 N2 P (IV)
5) C8 H24 N4 O2 P2 (V)
6) C8 H24 N4 P2 S2 (VI)
7) C8 H30 B2 N4 P2 (VII) p. 1515
8) C7 H21 I N3 P (VIII)
9) C24 H72 N12 P18 (IX) p. 1516
10) C4 H12 CL N2 P (A) p. 1513
11) C9 H24 N4 P2 S2 (B) p. 1515
12) C6 H18 N3 P $P(NMe_2)_3$ p. 1513
13) C2 H6 Br2 N P Me_2NPBr_2 p. 1514
14) C2 H6 CL2 N P Me_2NPCl_2 p. 1516

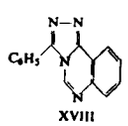
10827 CHEMISTRY OF SILICON- NITROGEN COMPOUNDS. XIII. SILYL SUBSTITUTED ALKALI AMIDES.
U. Wannagat, H. Niederpruem.
Techn. Hochschule, Aachen, Ger. Recd. Jan. 19, 1961.
Chem. Ber. 94(6), 1540-7(1961).

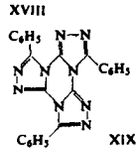
1) C6 H18 Li N Si2 $(Me_3Si)_2NLi$ [& addition products with Et_2O (1:1) & dioxane (1:1), (1:0.75), (1:0.5)
2) C9 H24 Li N Si2 $(Me_3Si)(Et_3Si)NLi$ [& addition product with $(LiBr)_x$]
3) C6 H18 N Na Si2 $(Me_3Si)_2NNa$ [& addition products with Et_2O (1:1), THF (1:1), pyridine (1:1), & dioxane (1:0.5)
4) C6 H18 K N Si2 $(Me_3Si)_2NK$ [as addition product with dioxane (1:2)]
5) C36 H30 Li N Si2 $(Ph_3Si)_2NLi$ [as addition product with Et_2O (1:1)]

10828 RING OPENING OF AZOLES. V. REACTIONS OF TETRAZOLES WITH ELECTROPHILIC REAGENTS.
R. Huisgen, H. J. Sturm, M. Seidel.
Univ., Munich, Ger. Recd. Jan. 26, 1961.
Chem. Ber. 94(6), 1555-62(1961).



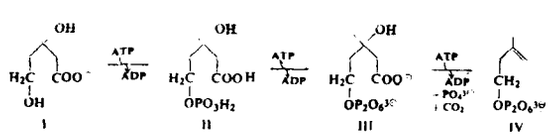






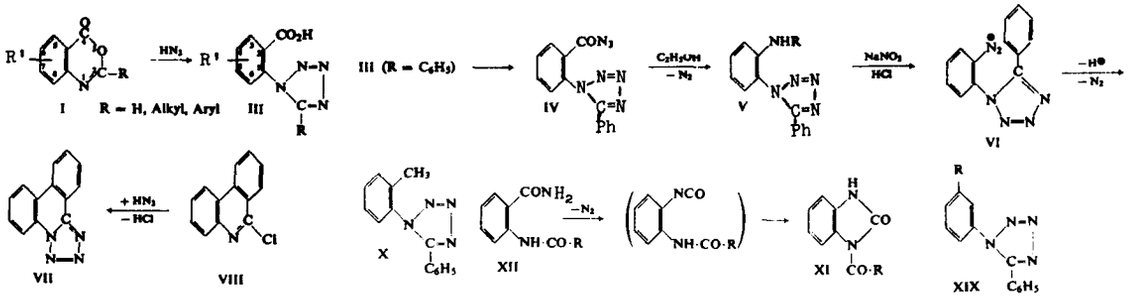
			R =				R=
1)	C18 H13 N3 O	(A)	α-naphthyl	p.	5)	C28 H24 N4 O4 S2 (B)	Ph
2)	C14 H10 N4 O3	"	$p\text{-}NO_2\text{-}C_6H_4$		6)	C18 H20 N4 O4 S2 "	Me
3)	C15 H12 N2 O S	(IX)	$p\text{-}MeO\text{-}C_6H_4$	p.	7)	C12 H8 N4 O2 (XV)	
4)	C9 H8 N2 S	"	Me		8)	C15 H10 N4 (XVIII)	
					9)	C24 H15 N9 (XIX)	

10829 THE BIOSYNTHESIS OF TERPENES. XII. SYNTHESIS OF DL-5-PHOSPHOROMEVALONIC ACID.
K. Kirschner, F. Lynen.
Inst. Biochem., Univ. Munich, Ger. Recd. Feb. 16, 1961.
Chem. Ber. 94(6), 1595-1606(1961).



1) C6 H13 O7 P (II) (as bis & tris-cyclohexylammonium salts)

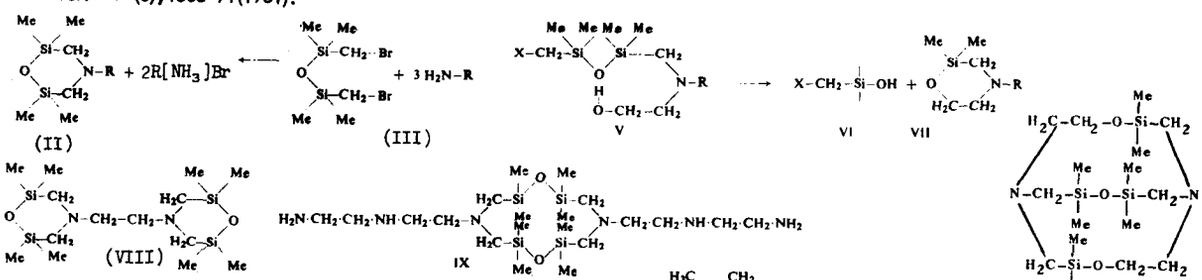
10830 TETRAZOLES. III. REVERSIBLE AZIDOLYSIS OF 3,1-BENZOXAZINONES-4 ("ACYLANTHRANILES")
H. Behringer, H. J. Fischer.
Univ., Munich, Ger. Recd. Feb. 3, 1961.
Chem. Ber. 94(6),1572-84(1961).



			R =	R' =
1)	C14 H10 N4 O2	(III)	Ph	H
2)	C8 H6 N4 O2	"	H	"
3)	C9 H8 N4 O2	"	Me	"
4)	C15 H12 N4 O3	"	p-MeO-C_6H_4	"
5)	C14 H9 N5 O4	"	p-NO_2-C_6H_4	H
6)	C9 H7 N5 O4	"	Me	6-NO_2
7)	C9 H7 N5 O4	"	"	5-NO_2
8)	C9 H7 N5 O4	"	"	4-NO_2
9)	C16 H15 N5 O2	(V)	CO_2Et	
10)	C13 H11 N5	"	H	
11)	C14 H10 N2 O2	(XI)	Ph	
12)	C14 H12 N2 O2	(XII)	"	

			R =
13)	C14 H12 N4	(XIX)	Me
14)	C14 H10 N4 O2	"	COOH
15)	C13 H8 N4	(VII)	
16)	C14 H12 N4	(X)	
17)	C14 H9 N7 O	(IV)	
18)	C16 H14 N4 O2		Et ester of 1
19)	C14 H12 N6 O		hydrazide of 1
20)	C9 H6 N2 O4		8-NO_2-2-Me-3,1-benzoxazinone-4
21)	C9 H8 N2 O5		N-Ac-4-NO_2-anthranilic acid
22)	C9 H8 N2 O2		1-Ac-benzimidazolone-4
23)	C15 H12 N2 O3		1-anisoylbenzimidazolone-4
24)	C9 H8 N2 O5		N-Ac-3-NO_2-anthranilic acid
25)	C26 H19 N11		1,3-bis[2-(5-Ph-1-tetrazolyl)-phenyl]-1-triazine

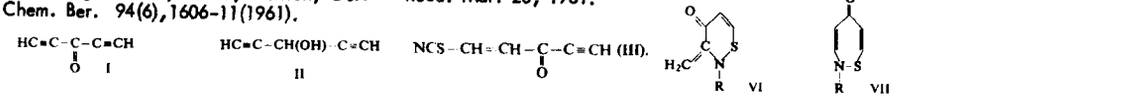
10831 Si, O, N-HETEROCYCLIC COMPOUNDS.
W. Simmler
Farbenfabriken Bayer AG, Leverkusen, Ger. Recd. Feb. 13, 1961.
Chem. Ber. 94(6),1585-91(1961).

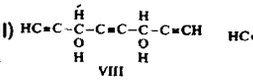
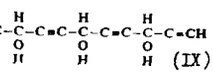


			R =
1)	C8 H22 N2 O Si2	(II)	$CH_2CH_2NH_2$
2)	C8 H21 N O2 Si2	"	CH_2CH_2OH
3)	C10 H27 N3 O Si2	"	$(CH_2)_2NH(CH_2)_2NH_2$
4)	C6 H15 N O Si	(VII)	Me
5)	C7 H17 N O2 Si	"	CH_2CH_2OH
6)	C14 H36 N2 O2 Si4	(VIII)	(& HBr)
7)	C20 H54 N6 O2 Si4	(IX)	(& HBr)
8)	C16 H40 N2 O3 Si4	(X)	
9)	C16 H42 N2 O4 Si4	(XI)	
10)	C14 H34 N2 O4 Si2	(XII)	

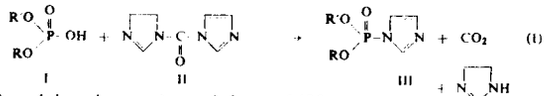
p. 1590

10832 DIETHYNYL KETONES.
F. Wille, R. Strasser.
Inst. Inorg. Chem., Univ., Munich, Ger. Recd. Mar. 20, 1961.
Chem. Ber. 94(6),1606-11(1961).

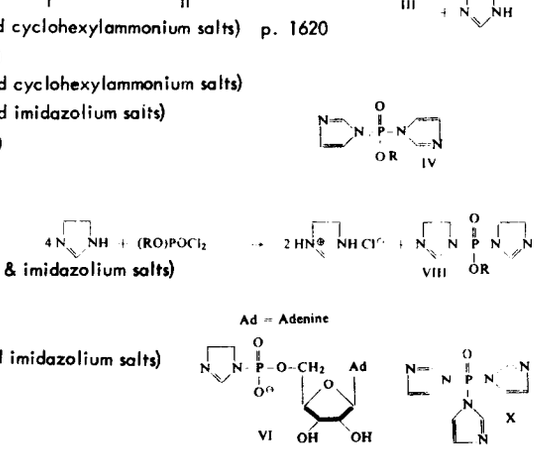


			R =
1)	C11 H9 N O S	(VI or VII)	Ph
2)	C9 H13 N O S	(VI or VII)	t-Bu
3)	C5 H2 O	(I)	
4)	C5 H4 O	(II)	
5)	C6 H3 N O S	(III)	
6)	C8 H6 O2	(VIII)	
7)	C11 H8 O3	(IX)	
8)	C12 H7 N O4		p-NO_2-benzoate of II
9)	C18 H14 N2 O S		1:1 addition of product of I with N,N'-di-Ph-thiourea
10)	C10 H16 I N O S		MeI of 2

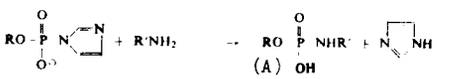
10833 THE CHEMISTRY OF ENERGY-RICH PHOSPHATE. XI. PREPARATION OF PHOSPHORIC ACID IMIDAZOLIDES.
F. Cramer, H. Schaller, H. A. Staab.
Inst. Org. Chem., Techn. Hochschule, Darmstadt, Ger. Recd. Oct. 18, 1960.
Chem. Ber. 94(6), 1612-21(1961).



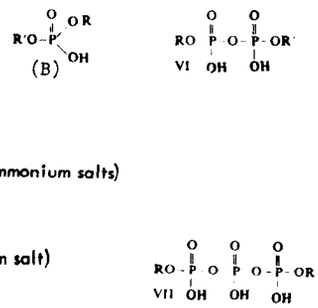
			R =	R' =	
1)	C9 H9 N2 O3 P	(III)	Ph	H	(as Na- and cyclohexylammonium salts) p. 1620
2)	C9 H8 CL N2 O3 P	"	4-Cl-C_6H_4	"	(as Na salt)
3)	C13 H11 N2 O3 P	"	β-naphthyl	"	(as Na- and cyclohexylammonium salts)
4)	C13 H17 N2 O3 P	"	thymyl	"	(as Na- and imidazolium salts)
5)	C10 H11 N2 O3 P	"	benzyl	"	(as Na salt)
6)	C6 H11 N2 O4 P	"	$MeOCH_2CH_2$	"	"
7)	C13 H16 N7 O6 P	"	5'-adenosyl	"	"
8)	C15 H13 N2 O3 P	"	Ph	Ph	
9)	C3 H5 N2 O3 P	"	H	H	(as di-Na- & imidazolium salts)
10)	C12 H11 N4 O2 P	(VIII)	Ph		
11)	C16 H19 N4 O2 P	"	thymyl		
12)	C6 H7 N4 O2 P	(IV)	H		(as Na- and imidazolium salts)
13)	C9 H9 N6 O P	(X)			
14)	C13 H16 N7 O6 P	(VI)	(as imidazolium salt)		



10834 THE CHEMISTRY OF ENERGY-RICH PHOSPHATE. XII. PHOSPHORYLATION USING IMIDAZOLYLPHOSPHONATE AND DI-IMIDAZOLYLPHOSPHINATE SALTS.
H. Schaller, H. A. Staab, F. Cramer.
Inst. Org. Chem., Techn. Hochschule, Darmstadt, Ger. Recd. Oct. 18, 1960.
Chem. Ber. 94(6), 1621-33(1961).



			R =	R' =		
1)	C6 H8 N O3 P	(A)	Ph	H	(as cyclohexylammonium salt)	
2)	C10 H16 N O3 P	"	thymyl	"	(as NH_4 salt)	
3)	C12 H17 CL N O3 P	"	4-Cl-C_6H_4	cyclohexyl	(as cyclohexylammonium salt)	
4)	C7 H9 O4 P	(B)	Me	Ph	(as Na salt)	
5)	C9 H13 O4 P	"	i-Pr	"	(as cyclohexylammonium salt)	
6)	C2 H7 O4 P	"	Me	Me	(as imidazolium salt)	
7)	C20 H28 O7 O2	(VI)	thymyl	thymyl	(as diimidazolium and dicyclohexylammonium salts)	
8)	C12 H12 O7 P2	"	Ph	Ph	(as diimidazolium salt)	
9)	C16 H14 O7 P2	"	β-naphthyl	"	(as dicyclohexylammonium salt)	
10)	C16 H20 O7 P2	"	thymyl	"	(as di-Na and dicyclohexylammonium salt)	
11)	C12 H11 CL O7 P2	"	Ph	4-Cl-C_6H_4	(as dicyclohexylammonium salt)	
12)	C10 H16 O7 P2	"	thymyl	H	(as tricyclohexylammonium salt)	p. 1631
13)	C16 H19 CL O7 P2	"	"	4-Cl-C_6H_4	(as dicyclohexylammonium salt)	p. 1632
14)	C12 H13 O10 P3	(VII)	Ph	Ph	(as tricyclohexylammonium salt)	p. 1631



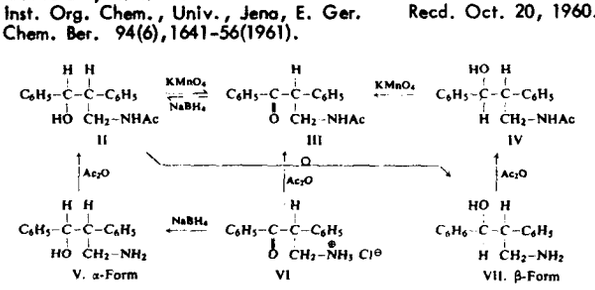
10835 THE CHEMISTRY OF ENERGY-RICH PHOSPHATE. XIII. PHOSPHORYLATION USING IMIDAZOLYLPHOSPHORIC ACID DI-ESTERS AND DIIMIDAZOLYLPHOSPHINIC ACID MONO-ESTERS.
F. Cramer, H. Schaller.
Inst. Org. Chem., Techn. Hochschule, Darmstadt, Ger. Recd. Oct. 18, 1960.
Chem. Ber. 94(6), 1634-40(1961).

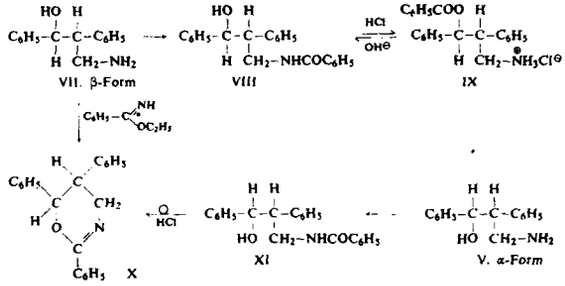
			R =	R' =	
1)	C13 H17 N2 O3 P	(I)	thymyl	H	
2)	C23 H30 N2 O6 P2	(VIII)	"	thymyl	(as imidazolium salt)
3)	C12 H18 N O3 P		$PhOP(O)(OH)NHC_6H_{11}$		(as cyclohexylammonium salt)
4)	C17 H18 N2 O3		Cbo-Ala anilide		Cbo = carbobenzoxy
5)	C14 H18 N2 O5		Cbo-Ala-Ala		

10836 PHOSPHORUS NITROGEN COMPOUNDS. XII. A NEW PHOSPHONITRIDE CHLORIDE P_3NCl_{12}.
M. Becke-Goehring, W. Lehr.
Univ., Heidelberg, Ger. Recd. Feb. 15, 1961.
Chem. Ber. 94(6), 1591-4(1961).

1) CL12 N P3 $(Cl_3P{=}N{-}PCl_3)(PCl_6)$ p. 1593

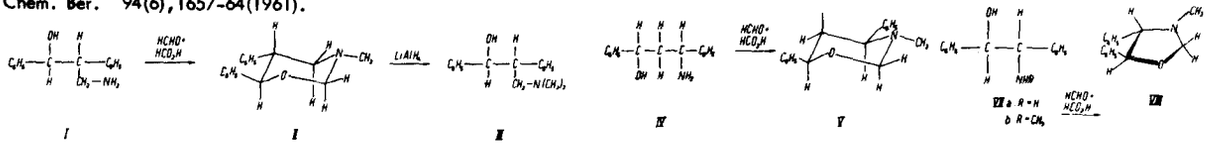
10837 AMINOALCOHOLS. XV. STEREOSPECIFIC SYNTHESIS AND CONFIGURATIONAL STUDIES OF DL-3-AMINO-1,2-DIPHENYL-1-PROPANOL (RING CLOSURE REACTION OF AMINO ALCOHOLS WITH BENZIMIDIC ACID ESTERS).
G. Drefahl, H. H. Hoerhold.
Inst. Org. Chem., Univ., Jena, E. Ger. Recd. Oct. 20, 1960.
Chem. Ber. 94(6),1641-56(1961).





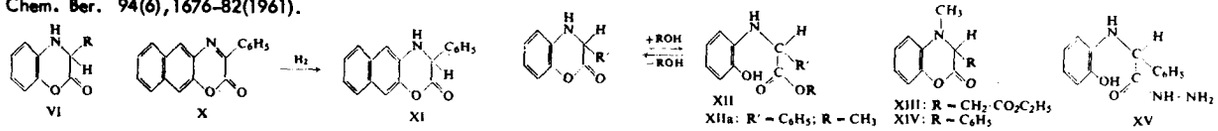
1)	C17 H19 N O2	(II)		p. 1652	7)	C15 H17 N O	(VII)	(& HCl)	p. 1652
2)	C15 H17 N O	(V)	(& HCl) 2 isomers	p. 1651	8)	C22 H21 N O2	(XI)		p. 1651
3)	C15 H15 N O	(VI)	(as HCl)		9)	C17 H17 N O2		N-Ac deriv. of VI	p. 1651
4)	C22 H21 N O2	(VIII)		p. 1653	10)	C17 H19 N O2		" " VII	p. 1652
5)	C22 H21 N O2	(IX)	(as HCl)	p. 1654	11)	C22 H21 N O S		thiobenzoyl deriv. of VII	p. 1654
6)	C22 H19 N O	(X)	(& HCl)	p. 1653	12)	C15 H16 N2 O		N-(2-HO-2-Ph-ethyl)benzamidine	p. 1656
					13)	C22 H22 N2 O		DL-erythro-N-[3-OH-2,3-di-Ph-Pr]benzamidine	

10838 AMINO ALCOHOLS. XVI. ALKYLATION OF AMINO ALCOHOLS WITH FORMALIN AND FORMIC ACID.
G. Drefahl, H. H. Hoerhold.
Inst. Org. Chem., Univ., Jena, E. Ger. Recd. Oct. 20, 1960.
Chem. Ber. 94(6),1657-64(1961).



1)	C17 H19 N O	(II)	(& picrate)		4)	C16 H17 N O	(VIII)	(as HCl) p. 1663
2)	C17 H21 N O	(III)			5)	C18 H24 I N O	MeI of DL-(erythro & threo)-3-Me_2N-1,2-di-Ph-propanol	
3)	C17 H19 N O	(V)	(& picrate)		6)	C16 H19 N O	DL-erythro-2-Me_2N-1,2-di-Ph-ethanol	p. 1663

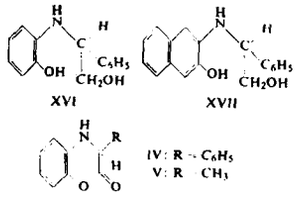
10839 1,4-OXAZINES. II. CONVERSION OF 1,4-BENZOXAZINONES-2 IN BENZMORPHOLONES-2 AND N-SUBSTITUTED AMINO ALCOHOLS.
E. Biekert, D. Hoffmann, F. J. Meyer.
Max-Planck Inst. Biochem., Munich, Ger. Recd. Nov. 28, 1960.
Chem. Ber. 94(6),1676-82(1961).



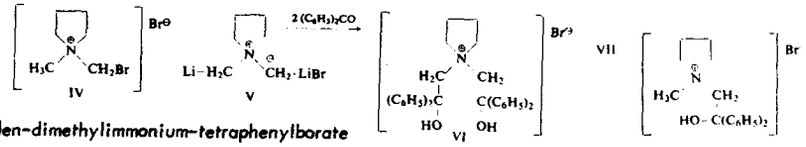
XIIa: R' = C_6H_5; R = CH_3 XIII: R = $CH_2 \cdot CO_2C_2H_5$ XIV: R = C_6H_5

R =

1)	C14 H11 N O2	(IV)	Ph	p. 1680	8)	C15 H15 N O3	(XIIa)	
2)	C12 H13 N O4	"	CH_2CO_2Et		9)	C13 H15 N O4	(XIII)	
3)	C11 H11 N O3	"	$MeCOCH_2$		10)	C15 H13 N O2	(XIV)	
4)	C15 H13 N O2	"	benzyl		11)	C14 H15 N3 O2	(XV)	
5)	C16 H13 N O3	"	phenacyl		12)	C14 H15 N O2	(XVI)	
6)	C18 H14 N2 O2	"	2-quinolinemethyl		13)	C18 H17 N O2	(XVII)	
7)	C18 H13 N O2	(XI)			14)	C16 H17 N O3	Et ester of XIIa	

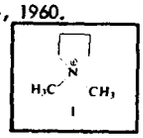


10840 YLIDES OF THE N,N-DIMETHYLPYRROLIDINIUM SYSTEM.
G. Wittig, W. Tochtermann.
Inst. Org. Chem., Univ., Heidelberg, Ger. Recd. Mar. 13, 1961.
Chem. Ber. 94(6),1692-6(1961).



1)	C6 H13 Br2 N	(IV)	
2)	C32 H34 Br N O2	(VI)	
3)	C19 H24 Br N O	(VII)	
4)	C29 H32 B N		isopropyliden-dimethylimmonium-tetraphenylborate

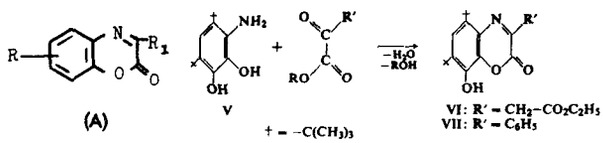
10841 DEGRADATION OF N,N-DIMETHYLPYRROLIDINIUM BROMIDE WITH ORGANO-LITHIUM COMPOUNDS TO ETHYLENE AND DIMETHYL-VINYL-AMINE.
F. Weygand, H. Daniel.
Org.-Chem. Inst., Techn. Hochschule, Munich, Ger. Recd. Dec. 24, 1960.
Chem. Ber. 94(6),1688-92(1961).



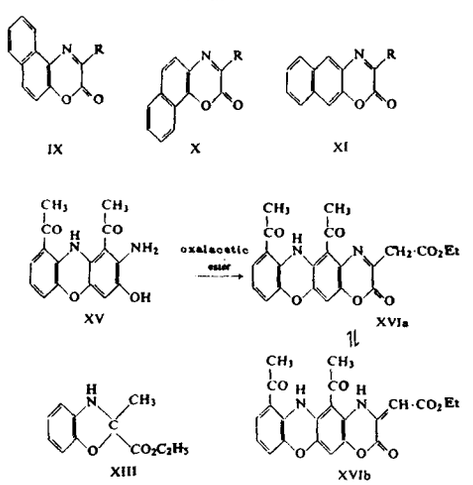
1) C30 H34 B N tetraphenylborate of I p. 1690

10842 1,4-OXAZINES. I. SYNTHESIS OF CONDENSED 1,4-OXAZINONES-2 BY REACTION OF o-AMINOPHENOLS WITH KETO-ESTERS.

E. Biekert, D. Hoffmann, F. J. Meyer.
Max-Planck Inst. Biochem., Munich, Ger. Recd. Nov. 28, 1960.
Chem. Ber. 94(6),1664-75(1961).



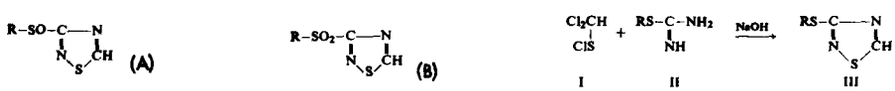
			R =	R_1 =
1)	C11 H9 N O3	(A)	H	$MeCOCH_2$
2)	C12 H11 N O3	"	7-Me	"
3)	C12 H11 N O3	"	6-Me	"
4)	C12 H11 N O4	"	8-MeO	"
5)	C9 H7 N O2	"	H	Me
6)	C10 H9 N O3	"	8-MeO	"
7)	C14 H9 N O2	"	H	Ph
8)	C15 H11 N O2	"	6-Me	"
9)	C16 H13 N O3	"	6-Me, 8-MeO	"
10)	C17 H13 N O3	"	5-Me, 7-Ac	"
11)	C22 H25 N O3	"	8-OH,5,7-di-t-Bu	"
12)	C14 H8 N2 O4	"	H	$2\text{-}NO_2\text{-}C_6H_4$
13)	C15 H10 N2 O4	"	6-Me	"
14)	C14 H6 CL2 N2 O4	"	6,8-di-Cl	"
15)	C15 H11 N O2	"	H	benzyl
16)	C13 H13 N O4	"	"	$(CH_2)_2CO_2Et$
17)	C16 H11 N O3	"	"	$PhCOCH_2$
18)	C16 H17 N O6	"	"	$CH(CO_2Et)CH_2COOEt$
19)	C18 H12 N2 O2	"	"	2-quinolyl-CH_2
20)	C12 H11 N O4	"	"	CH_2CO_2Et
21)	C13 H13 N O4	"	7-Me	"
22)	C13 H13 N O4	"	6-Me	"
23)	C14 H15 N O4	"	6,7-di-Me	"
24)	C14 H15 N O4	"	5,7-di-Me	"
25)	C14 H15 N O4	"	6,8-di-Me	"
26)	C13 H13 N O5	"	8-MeO	"
27)	C14 H13 N O5	"	7-Ac	"
28)	C14 H13 N O5	"	5-Ac	"
29)	C13 H11 N O6	"	5-COOH	"
30)	C15 H15 N O6	"	$6\text{-}CO_2Et$	"
31)	C12 H11 N O5	"	5-OH	"
32)	C12 H11 N O5	"	7-OH	"
33)	C12 H11 N O5	"	6-OH	"



			R =	R_1 =
34)	C20 H27 N O5	(A)	5,7-di-t-Bu, 8-OH	CH_2CO_2Et
35)	C12 H10 CL N O4	"	7-Cl	"
36)	C12 H10 CL N O4	"	6-Cl	"
37)	C12 H9 CL2 N O4	"	6,8-di-Cl	"
38)	C12 H8 CL3 N O4	"	5,6,8-tri-Cl	"
39)	C12 H10 N2 O6	"	$7\text{-}NO_2$	"
40)	C12 H12 N2 O6 S	"	$6\text{-}NH_2SO_2$	"
41)	C18 H11 N O2	(XI)	Ph	
42)	C16 H13 N O4	(IX)	CH_2-COOEt	
43)	C16 H13 N O4	(X)	"	
44)	C16 H13 N O4	(XI)	"	
45)	C11 H13 N O3	(XIII)	"	
46)	C22 H18 N2 O7	(XVIa, XVIb)		
47)	C9 H9 N O3	free acid from XIII		

10843 1,2,4-THIODIAZOLES. XIII. SYNTHESIS AND PROPERTIES OF 3-ALKYLMERCAPTO-1,2,4-THIODIAZOLES.

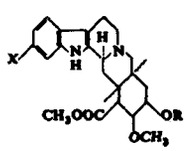
J. Goerdeler, M. Budnowski.
Chem. Inst., Univ., Bonn, Ger. Recd. Nov. 30, 1960.
Chem. Ber. 94(6),1682-8(1961).



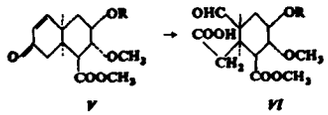
			R =				R =
1)	C3 H4 N2 S2	(III)	Me ($AgNO_3$, $HgCl_2$ salts)	11)	C5 H8 N2 O S2	(A)	n-Pr
2)	C4 H6 N2 S2	"	Et "	12)	C7 H12 N2 O S2	"	i-Am
3)	C5 H8 N2 S2	"	i-Pr	13)	C3 H4 N2 O2 S2	(B)	Me
4)	C5 H8 N2 S2	"	n-Pr	14)	C6 H10 N2 O2 S2	"	t-Bu
5)	C6 H10 N2 S2	"	n-Bu	15)	C5 H8 N2 O2 S2	"	n-Pr
6)	C6 H10 N2 S2	"	t-Bu ($AgNO_3$ & $HgCl_2$ salts)	16)	C7 H12 N2 O2 S2	"	i-Am
7)	C7 H12 N2 S2	"	i-Am	17)	C8 H6 N2 S	3-Ph-1,2,4-thiodiazole ($AgNO_3$ & $HgCl_2$ salts)	
8)	C9 H8 N2 S2	"	benzyl ($AgNO_3$ & $HgCl_2$ salts)				
9)	C3 H4 N2 O S2	(A)	Me				
10)	C4 H6 N2 O S2	"	Et				

10844 SYNTHETIC STUDIES OF HYPOTENSIVE ALKALOIDS XVII. SIMPLIFIED METHOD OF SYNTHESIS OF (±) - DESPERPIDINE AND RELATED SUBSTANCES.

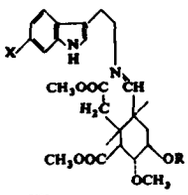
J. Weichet, K. Pelz, L. Bláha.
Forschungsinst. Pharm. Biochem., Prague, C.S.R. Recd. Aug. 20, 1960.
Coll. Czech. Chem. Comm. 26(6), 1529-36(1961).



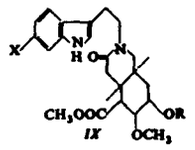
III



V VI



VII



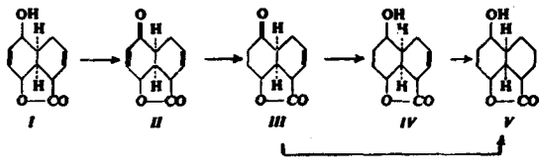
IX

a: R = 3,4,5-Trimethoxybenzoyl
b: R = 3,4,5-Trimethoxydihydrocinnamoyl
c: R = p-Nitrobenzoyl
d: R = Acetyl
e: R = H

			X=					X=	
1)	C33 H40 N2 O10	(VIIa)	H		7)	C29 H31 N3 O7	(IIIc)	H	
2)	"	(IXa)	MeO-	p. 1533	8)	C23 H28 O9	(Va)		p. 1533
3)	C34 H42 N2 O9	(IXb)	H	p. 1534	9)	C25 H32 O9	(Vb)		
4)	C29 H31 N3 O8	(IXc)	H		10)	C20 H21 N O8	(Vc)		
5)	C33 H40 N2 O9	(IIIa)	MeO	p. 1535	11)	C22 H28 O11	(VIa)		
6)	C34 H42 N2 O8	(IIIb)	H		12)	C23 H30 O11		Me ester of VIa	

10845 SYNTHETIC STUDIES OF HYPOTENSIVE ALKALOIDS. XVIII. MICROBIOLOGICAL REDUCTION OF (±)-5-OXO-8 β-HYDROXY-cis-1,4,5,8,9,10-HEXAHYDRO-1β-NAPHTHOIC ACID LACTONE.

M. Protiva, A. Capek, J. O. Jilek, B. Kakac, M. Tadra.
Forschungsinst. Pharm. Biochem. Prague, C.S.R. Recd. Sept. 17, 1960.
Coll. Czech. Chem. Comm. 26(6), 1537-41(1961).

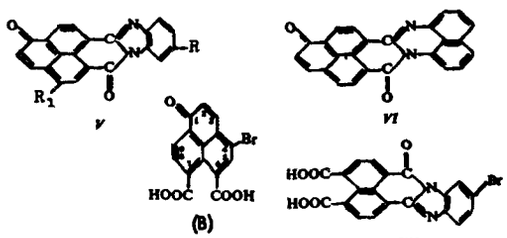


I II III IV V

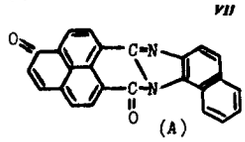
1)	C11 H12 O3	(III)	p. 1539
2)	C11 H14 O3	(IV)	p. 1540
3)	C11 H16 O3	(V)	
4)	C12 H15 N3 O3	semicarbazone of III	p. 1539

10846 IMIDAZOLE-DYES V- CONDENSATION OF "PYRENIC ACID" WITH AROMATIC o-AND peri-DIAMINES.

J. Arient, J. Dvorak, V. Stepanek.
Forschungsinst. Org. Synth. Pardubice-Rybitvi, C.S.R. Recd. May 3, 1960.
Coll. Czech. Chem. Comm. 26(6), 1542-50(1961).



V VI (B) VII

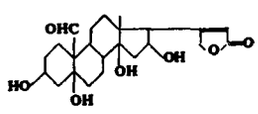


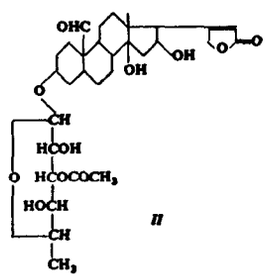
(A)

			R=	R_1=	
1)	C21 H10 N2 O2	(V)	H	H	p. 1548
2)	C21 H9 CL N2 O2	"	Cl	"	
3)	C23 H14 N2 O3	"	EtO	"	
4)	C21 H9 Br N2 O2	"	H	Br	
5)	C25 H12 N2 O2	(VI)			
6)	C25 H12 N2 O2	(A)			
7)	C20 H9 Br N2 O5	(VII)			
8)	C15 H5 Br O5	(B)			p. 1547
9)	C21 H9 Br N2 O2		bromination prod. of 1		p. 1549
10)	C21 H8 Br2 N2 O2		" " " 9		
11)	C20 H7 Br N2 O4		anhydride of 7		
12)	C18 H6 N2 O7		prod. from oxid. of 10		

10847 CARDIAC GLYCOSIDES. III. CARDENOLOIDS OF ADONIS VERNALIS L.

J. Pitra, Z. Cekan.
Forschungsinst. Natur-Arzneimittel, Prague, C.S.R. Recd. May 20, 1960.
Coll. Czech. Chem. Comm. 26(6), 1551-58(1961).





II

1)	C23 H32 O7	(I)	p. 1555
2)	C31 H44 O11	(II)	p. 1553
3)	C27 H36 O9		di-Ac of I
4)	C23 H33 N O7		oxime of I
5)	C21 H44 O11		Ac-adonitoxin

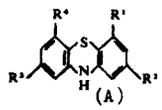
10848 PREPARATION OF NON-SPECIFIED C^{14} LABELED COMPOUNDS BY BIOSYNTHESIS I. APPARATUS FOR THE BIOSYNTHESIS AND PREPARATION OF NON-SPECIFIED LABELED CARBOHYDRATES.

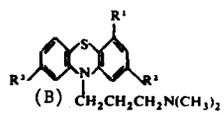
J. Liebster, J. Kopoldova, J. Kozel, M. Dobiasova.
Biol. Inst. Czechoslov. Akad. Wissenschaften, Prague, C.S.R. Recd. May 3, 1960.
Coll. Czech. Chem. Comm. 26(6), 1582-90(1961).

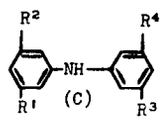
1)	C6 H12 O6	^{14}C labeled glucose	p. 1586	5)	C6 H12 O5	^{14}C labeled rhamnose	
2)	"	" fructose		6)	C5 H10 O5	" arabinose	
3)	C5 H10 O5	" xylose		7)	C12 H22 O11	" maltose	
4)	C6 H12 O6	" galactose		8)	"	" unidentified sugar	
				9)	[C6 H12 O6]n	" unidentified polysaccharide	

10849 PHENOTHIAZINE-DERIVATIVES II. 1,3,6-TRISUBSTITUTED AND 1,3,6,8-TETRASUBSTITUTED PHENOTHIAZINE- DERIVATIVES.
J. Hebky, J. Kejha, M. Karasek.
Forschungsinst. Pharm. Biochem. Prague, C. S. R. Recd. Oct. 6, 1960.
Coll. Czech. Chem. Comm. 26(6),1559-67(1961).

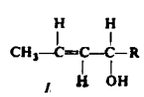
			R^1 =	R^2 =	R^3 =	R^4 =	
1)	$C_{12}H_6Cl_3NS$	(A)	Cl	Cl	Cl	H	p. 1563
2)	$C_{13}H_9Cl_2NS$	"	"	"	Me	H	
3)	"	"	"	"	H	Me	
4)	$C_{14}H_{12}ClNS$	"	Me	Me	Cl	H	
5)	"	"	"	"	H	Cl	
6)	$C_{15}H_{15}NS$	"	"	"	Me	H	
7)	$C_{12}H_5Cl_4NS$	"	Cl	Cl	Cl	Cl	
8)	$C_{14}H_{11}Cl_2NS$	"	"	"	Me	Me	
9)	$C_{16}H_{17}NS$	"	Me	Me	"	"	
10)	$C_{17}H_{17}Cl_3N_2S$	(B)	Cl	Cl	Cl		(as HCl) p. 1564
11)	$C_{18}H_{20}Cl_2N_2S$	"	"	"	Me		"
12)	$C_{19}H_{23}ClN_2S$	"	Me	Me	Cl		"
13)	$C_{20}H_{26}N_2S$	"	"	"	Me		"
14)	$C_{12}H_8Cl_3N$	(C)	Cl	Cl	Cl	H	p. 1562
15)	$C_{13}H_{11}Cl_2N$	"	"	"	Me	"	
16)	$C_{14}H_{14}ClN$	"	Me	Me	Cl	"	
17)	$C_{15}H_{17}N$	"	"	"	Me	"	
18)	$C_{12}H_7Cl_4N$	"	Cl	Cl	Cl	Cl	
19)	$C_{14}H_{13}Cl_2N$	"	"	"	Me	Me	
20)	$C_{16}H_{19}N$	"	Me	Me	"	"	
21)	$C_{13}H_4Cl_5NOS$		10-carboxylic acid chloride of 7				p. 1565
22)	$C_{15}H_{10}Cl_3NOS$		"	"	"	8	
23)	$C_{17}H_{16}ClNOS$		"	"	"	9	
24)	$C_{18}H_{16}Cl_4N_2O_2S$		3'-di-Me-amino-Pr ester from 21				(as HCl)
25)	$C_{20}H_{22}Cl_2N_2O_2S$		"	"	22		"
26)	$C_{22}H_{28}N_2O_2S$		"	"	23		"



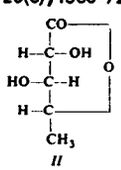




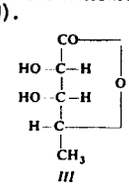
10850 LACTONES V. STEREOCHEMISTRY OF THE HYDROXYLATION OF ANGELACTINIC ACID.
R. Lukeš, J. Jarý, K. Kefurt.
Lab. Heterocycl. Verbindungen, Tschechoslov. Akad. Wissensch., Prague ČSSR. Recd. Dec. 13, 1960.
Coll. Czech. Chem. Comm. 26(6),1568-72(1961).



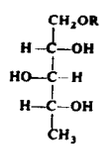
I



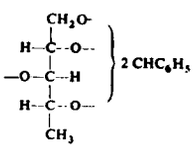
II



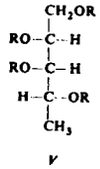
III



IVa



IVb

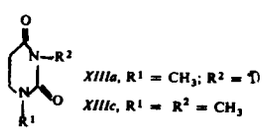


V

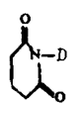
			R =				R =
1)	$C_5H_{12}O_4$	(V)	H	p. 1510	2)	$C_{13}H_{20}O_8$	(V) Ac

10851 NUCLEIC ACIDS COMPONENTS AND THEIR ANALOGUES. XI. INFRARED SPECTROSCOPY OF URACIL, 6-AZAURACIL AND THEIR DERIVATIVES IN THE CARBONYL GROUP STRETCHING VIBRATION REGION.
M. Horak, J. Gut.
Inst. Org. Chem. Biochem., Czech. Acad. Sci., Prague. Recd. June 30, 1960.
Coll. Czech. Chem. Comm. 26(6),1680-93(1961).

1)	$C_5H_6DNO_2$	(XII)	p. 1682	
2)	$C_5H_7DN_2O_2$	(XIIIa)		
3)	$C_6H_{10}N_2O_2$	(XIIIc)		
4)	$C_{11}H_{13}NO_2$		Et pyruvate anil	



XIIIa, $R^1 = CH_3$; $R^2 = D$
XIIIc, $R^1 = R^2 = CH_3$



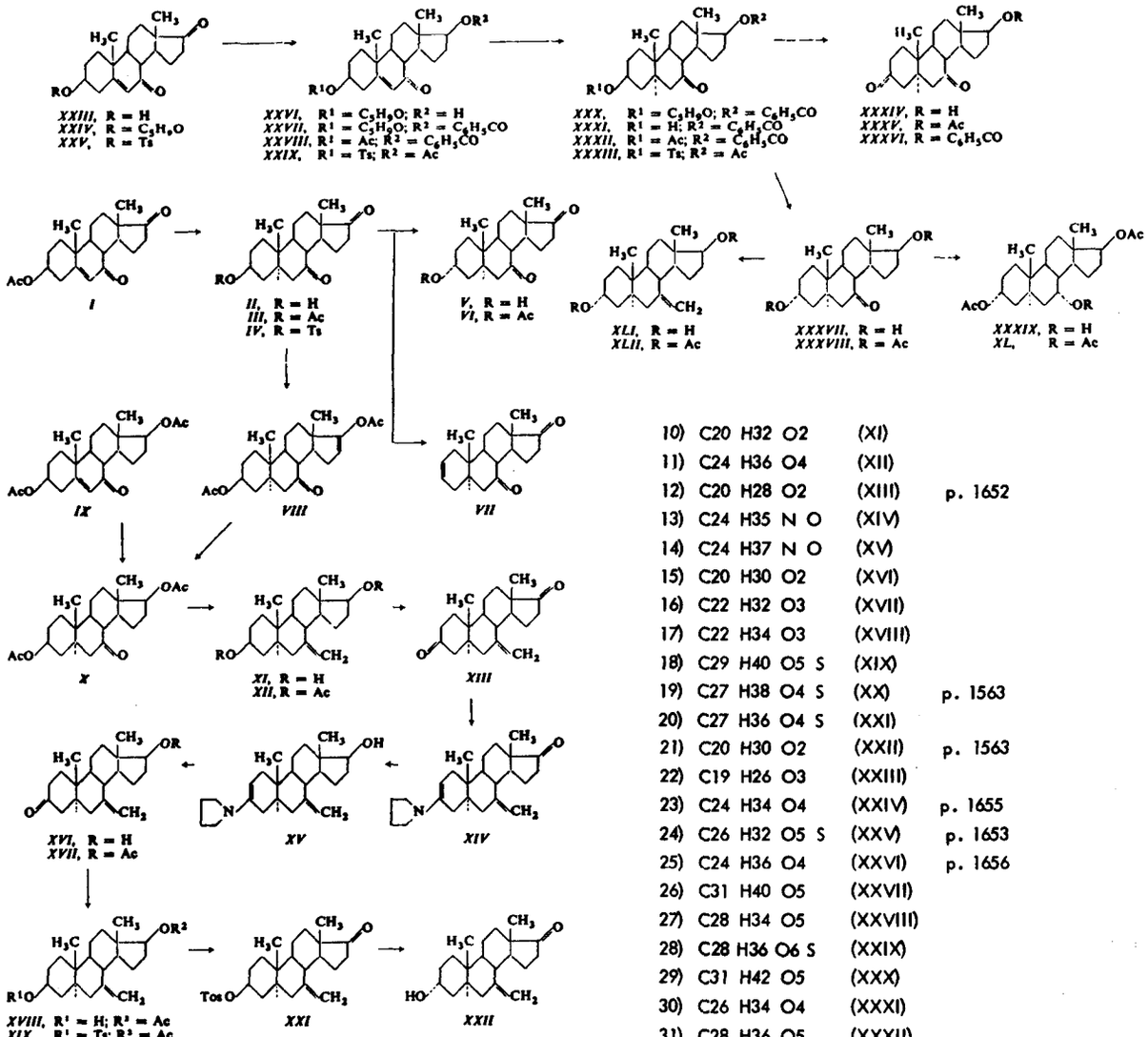
XII

10852 PREPARATION OF C^{14} LABELED COMPOUNDS BY BIOSYNTHESIS II. ISOLATION OF NON-SPECIFIED C^{14} LABELED PHOTOSYNTHETIC PRODUCTS FROM THE ALGAE CHLORELLA VULGARIS.
J. Liebster, J. Kopoldova, M. Dobiasova, J. Kozel.
Biol. Inst. Czechoslovak. Akad. Wissensch., Prague. Recd. May 13, 1960.
Coll. Czech. Chem. Comm. 26(6),1694-99(1961).

1)	$C_{16}H_{32}O_2$	C^{14} labeled palmitic acid	p. 1697	4)	$C_{18}H_{32}O_2$	C^{14} labeled	linoleic acid
2)	$C_{18}H_{34}O_2$	" oleic acid		5)	$C_{18}H_{30}O_2$	"	linolenic acid
3)	$C_{18}H_{36}O_2$	" stearic acid					

10853 ON STEROIDS LVIII. SOME ANALOGUES OF ANDROGENS SUBSTITUTED IN POSITION 7.

J. Joska, J. Fajkos, F. Sorm.
Inst. Org. Chem. Biochem. Czech. Acad. Sci., Prague. Recd. Dec. 27, 1960.
Coll. Czech. Chem. Comm. 26(6), 1646-57(1961).



1)	C19 H28 O3	(II)	p. 1648	
2)	C26 H34 O5 S	(IV)	p. 1650	
3)	C21 H30 O4	(III)		
4)	C19 H28 O3	(V)		
5)	C19 H26 O2	(VII)		
6)	C21 H30 O4	(VI)		
7)	C23 H32 O5	(VIII)		
8)	C23 H34 O5	(X)	p. 1651	
9)	C23 H32 O5	(IX)		
10)	C20 H32 O2	(XI)		
11)	C24 H36 O4	(XII)		
12)	C20 H28 O2	(XIII)	p. 1652	
13)	C24 H35 N O	(XIV)		
14)	C24 H37 N O	(XV)		
15)	C20 H30 O2	(XVI)		
16)	C22 H32 O3	(XVII)		
17)	C22 H34 O3	(XVIII)		
18)	C29 H40 O5 S	(XIX)		
19)	C27 H38 O4 S	(XX)	p. 1563	
20)	C27 H36 O4 S	(XXI)		
21)	C20 H30 O2	(XXII)	p. 1563	
22)	C19 H26 O3	(XXIII)		
23)	C24 H34 O4	(XXIV)	p. 1655	
24)	C26 H32 O5 S	(XXV)	p. 1653	
25)	C24 H36 O4	(XXVI)	p. 1656	
26)	C31 H40 O5	(XXVII)		
27)	C28 H34 O5	(XXVIII)		
28)	C28 H36 O6 S	(XXIX)		
29)	C31 H42 O5	(XXX)		
30)	C26 H34 O4	(XXXI)		
31)	C28 H36 O5	(XXXII)		
32)	C28 H38 O6 S	(XXXIII)		
33)	C19 H28 O3	(XXXIV)	p. 1657	
34)	C21 H30 O4	(XXXV)		
35)	C26 H32 O4	(XXXVI)		
36)	C19 H30 O3	(XXXVII)	p. 1654	
37)	C23 H34 O5	(XXXVIII)		
38)	C23 H36 O5	(XXXIX)		
39)	C25 H38 O6	(XL)	p. 1655	
40)	C20 H32 O2	(XLI)		
41)	C24 H36 O4	(XLII)		

10854 EFFECT OF THE GRIGNARD REAGENT ON THE AMIDO GROUP XXXII. PREPARATION OF HENTRIACONTANE-1,31-DICARBOXYLIC ACID.

R. Lukeš, L. Havlíčková, V. Dudek.
Inst. Org. Chem., Techn. Hochschule Chem., Prague. Recd. Oct. 18, 1960.
Coll. Czech. Chem. Comm. 26(6), 1719-22(1961).

$CH_3NHCO(CH_2)_3CO(CH_2)_{n-1}CH_3$ (I) $HOCO(CH_2)_3CO(CH_2)_nCO(CH_2)_3COOH$ (III)

				n =	
1)	C23 H42 N2 O4	(II)	11		p. 1721
2)	C21 H36 O6	(III)	11		
3)	C33 H62 N2 O4	(II)	21		p. 1722
4)	C27 H53 N O2	(I)	21		

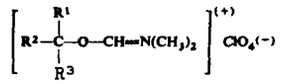
$CH_3NHCO(CH_2)_3CO(CH_2)_nCO(CH_2)_3CONHCH_3$ (II) $HOCO(CH_2)_{n-2}COOH$ (IV)

				n =	
5)	C31 H60 O4	(IV)	31		
6)	C11 H22 Br2		1,11-di-Br-undecane		p. 1720

10855 PREPARATION OF C^{14} LABELED COMPOUNDS BY BIOSYNTHESIS III. SEPARATION OF C^{14} LABELED AMINO ACIDS FROM THE HYDROLYSATE OF THE PROTEIN OF THE ALGAE CHLORELLA VULGARIS.
J. Liebster, M. Dobiasova, J. Kopoldova, J. Ekl.
Biol. Inst. Tschechoslovak. Akad. Wissensch., Prague. Recd. May 13, 1960.
Coll. Czech. Chem. Comm. 26(6),1700-7(1961).

1)	C4	H7	N	O4	C^{14} labeled aspartic acid	p. 1705					
2)	C5	H9	N	O2	" " proline		9)	C6	H13	N	O2	C^{14} labeled isoleucine
3)	C3	H7	N	O3	" " serine		10)		"			" " leucine
4)	C4	H9	N	O3	" " threonine		11)	C9	H11	N	O2	" " phenylalanine
5)	C5	H9	N	O4	" " glutamic acid		12)	C9	H11	N	O3	" " tyrosine
6)	C3	H7	N	O2	" " alanine		13)	C6	H9	N3	O2	" " histidine
7)	C2	H5	N	O2	" " glycine		14)	C6	H14	N2	O2	" " lysine
8)	C5	H11	N	O2	" " valine		15)	C6	H14	N4	O2	" " arginine

10856 SYNTHETIC REACTIONS OF DIMETHYLFORMAMIDE. IX. SYNTHESIS OF ESTERS OF FORMIC ACID.
Z. Arnold.
Inst. Org. Chem. Biochem. Czechoslovak Acad. Sci., Prague. Recd. Sept. 22, 1960.
Coll. Czech. Chem. Comm. 26(6),1723-26(1961).

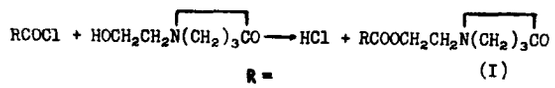


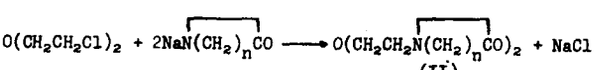
IIa, $R^1 = R^2 = R^3 =$ methyl
IIb, $R^1 = R^2 =$ methyl; $R^3 =$ benzyl

1)	C7	H16	CL	N	O5	(IIa) p. 1725
2)	C13	H20	CL	N	O5	(IIb)

Izvest. Akad. Nauk, SSSR, Otdel Khim., May, 1961

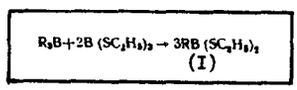
10857 STUDIES OF LACTONES AND LACTAMS. 19. SYNTHESIS OF ESTERS OF N-(β-HYDROXYETHYL)PYRROLIDONE.
M. F. Shostakovskii, F. P. Sidelkovskaya, M. G. Zelenskaya.
N. D. Zelinskii Inst. Org. Chem., Acad. Sci., Moscow. Recd. Apr. 20, 1960.
Izvest. Akad. Nauk SSSR Otdel. Khim. 1961(5),910-3.





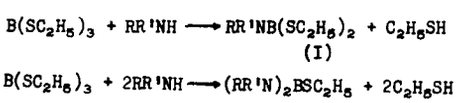
				R =					R =		n =
1)	C7	H11	N	O3	(I)	H	4)	C10 H17 N O3	(I)	n-Pr	
2)	C8	H13	N	O3	"	Me	5)	C11 H19 N O3	"	n-Bu	7) C14 H24 N2 O3 (II) 4
3)	C9	H15	N	O3	"	Et	6)	C12 H21 N O3	"	n-Am	8) C16 H28 N2 O3 " 5

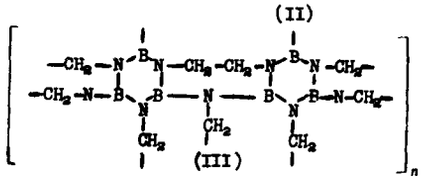
10858 SYNTHESIS OF ALKYLTHIOBORIC ACID ESTERS FROM BORON TRIALKYLS AND THIOBORATES.
B. M. Mikhailov, T. A. Shchegoleva, E. M. Shashkova.
Inst. Org. Chem., Acad. Sci., Moscow. Recd. Sept. 3, 1960.
Izvest. Akad. Nauk SSSR Otdel. Khim. 1961(5),916-7.



				R =					R =
1)	C7	H27	B	S2	(I)	n-Pr p. 916			
2)	C7	H27	B	S2	"	i-Pr	3)	C8 H29 B S2	(I) i-Bu

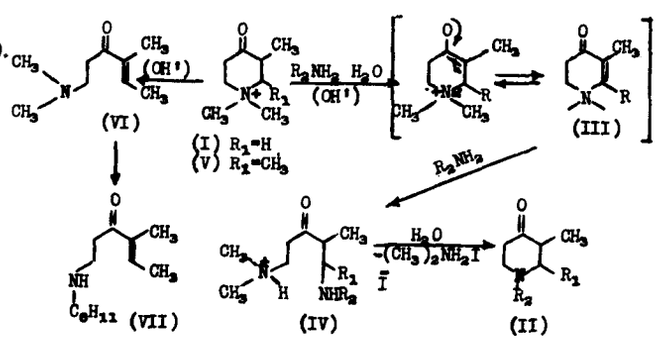
10859 REACTIONS OF TRIETHYLTHIOBORATE WITH AMINES.
T. A. Shchegoleva, E. M. Shashkova, B. M. Mikhailov.
Inst. Org. Chem., Acad. Sci., Moscow. Recd. Oct. 3, 1960.
Izvest. Akad. Nauk SSSR Otdel. Khim. 1961(5),918-9





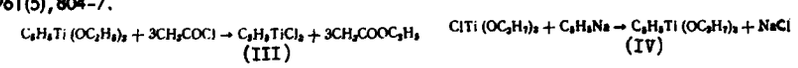
					R =	R' =	
1)	C6	H16	B	N S2	(I)	Et	H p. 918
2)	C6	H16	B	N S2	"	Me	Me
3)	C10	H16	B	N S2	"	Ph	H p. 919
4)	C6	H17	B	N2 S	(II)	Et	" p. 918
5)	C6	H17	B	N2 S	"	Me	Me p. 919
6)	(C9	H18	B6	N9)n	(III)		

10860 A NEW SYNTHESIS OF N-ALKYL-4-PIPERIDONES
E. A. Mistryukov, N. I. Aromova, V. F. Kucherov.
Inst. Org. Chem., Acad. Sci., Moscow. Recd. Oct. 28, 1960.
Izvest. Akad. Nauk SSSR Otdel. Khim. 1961(5), 932-3.



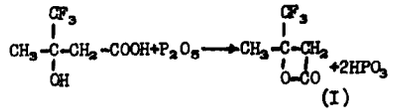
				R_2 =	R_1 =	
1)	C10	H19	N	O (II)	t-Bu	H (& picrate)
2)	C12	H21	N	O "	cyclohexyl	" (& HCl)
3)	C13	H17	N	O "	benzyl	" (& picrate)
4)	C14	H19	N	O "	"	Me (as HCl)
5)	C9	H17	N	O (VI)		"
6)	C13	H23	N	O (VII)		(as picrate)

10861 MONO- π-CYCLOPENTADIENYL DERIVATIVES OF TITANUM.
A. N. Nesmeyanov, O. V. Nogina, A. M. Berlin.
Inst. Element. Org. Compds., Acad. Sci., Moscow. Recd. June 8, 1960.
Izvest. Akad. Nauk SSSR Otdel. Khim. 1961(5),804-7.



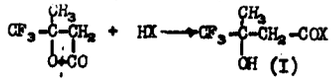
1) C11 H20 O3 Ti (I) p. 805
2) C12 H15 CL O Ti (II) p. 806
3) C5 H5 CL3 Ti (III)
4) C14 H26 O3 Ti (IV)
5) C5 H5 Tl cyclopentadienyl Tl p. 807
6) C11 H19 CL O2 Ti $C_5H_5TiCl(OPr)_2$
7) C8 H12 CL2 O Ti $C_5H_5TiCl_2(OPr)$

10862 FLUORINE-CONTAINING β-LACTONES. 2. β-TRIFLUOROMETHYL-β-METHYLPROPIOLACTONE.
I. L. Knunyants, Yu. A. Cheburkov.
Inst. Element. Org. Compds., Acad. Sci., Moscow. Recd. Mar. 21, 1960.
Izvest. Akad. Nauk SSSR Otdel. Khim. 1961(5),808-10.



1) C5 H5 F3 O2 (I) p. 810

10863 FLUORINE CONTAINING β-LACTONES. 3. RING OPENING IN β-TRIFLUOROMETHYL-β-METHYL-β-PROPIOLACTONE.
I. L. Knunyants, Yu. A. Cheburkov.
Inst. Element. Org. Compds, Acad. Sci., Moscow. Recd. Mar. 21, 1960.
Izvest. Akad. Nauk SSSR Otdel. Khim. 1961(5),811-3.

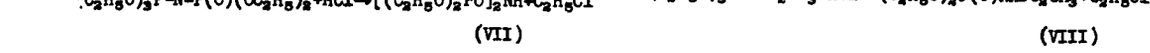


			X =				X =	
1)	C6 H9 F3 O3	(I)	OMe	p. 812	4)	C11 H12 F3 N O2	(I)	NHPh
2)	C5 H8 F3 N O2	"	NH_2		5)	C10 H16 F3 N O2	"	piperidino
3)	C7 H12 F3 N O2	"	NMe_2		6)	C12 H14 F3 N O2	"	$PhCH_2NH$ p. 813

10864 IMIDES OF PHOSPHORUS-CONTAINING ACIDS 5. REACTION OF TRIALKYL PHOSPHITES WITH HYDRAZOIC ACID.
M. I. Kabachnik, V. A. Gilyarov.
Inst. Element. Org. Compds., Acad. Sci., Moscow. Recd. Apr. 1, 1960.
Izvest. Akad. Nauk SSSR Otdel. Khim. 1961(5),816-8.

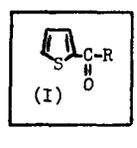
1) C3 H10 N O3 P $(MeO)_2P(O)NHMe$ p. 817
2) C9 H22 N O3 P $(i\text{-}PrO)_2P(O)NHPr\text{-}i$ p. 818
3) C6 H16 N O3 P $(i\text{-}PrO)_2P(O)NH_2$

10865 IMIDES OF PHOSPHORUS-CONTAINING ACIDS 6. TRIALKYL-N-ACYLIMIDOPHOSPHATES.
M. I. Kabachnik, V. A. Gilyarov.
Inst. Element. Org. Compds., Acad. Sci., Moscow. Recd. Apr. 6, 1960.
Izvest. Akad. Nauk SSSR Otdel. Khim. 1961(5),819-23.



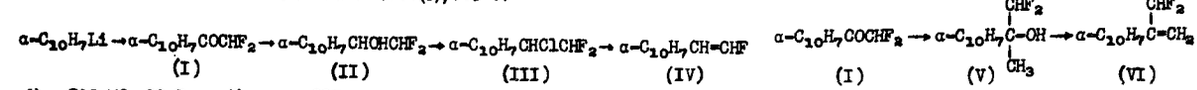
1)	C4 H11 N3 O3 P	$(EtO)_2P(O)N_3$	p. 822	5)	C10 H25 N O6 P2	$(EtO)_3P{=}NP(O)(OEt)_2$		
2)	C2 H6 N3 O3 P	$(MeO)_2P(O)N_3$		6)	C7 H18 N O5 P S	$(EtO)_3P{=}NSO_2Me$		
3)	C H3 N3 O2 S	$MeSO_2N_3$		7)	C8 H21 N O6 P2	(VII)		p. 823
4)	C5 H15 N O6 P2	$(MeO)_3P{=}NP(O)(OMe)_2$		8)	C5 H14 N O5 P S	(VIII)		

10866 SYNTHESIS OF FLUORINATED KETONES FROM N, N-DIALKYLAMIDES OF FLUORINATED ACIDS AND LITHIUM ORGANIC COMPOUNDS.
N. A. Zaitsevs, E. M. Panov. K. A. Kocheshkov.
Ya. Karpov Phys. Chem. Inst., USSR. Recd. June 1, 1960.
Izvest. Akad. Nauk SSSR Otdel. Khim. 1961(5),831-5.



			R =					
1)	C6 H4 F2 O S	(I)	CHF_2	p. 833	3)	C8 H6 CL F O	CHClFCOPh	
2)	C6 H3 F3 O S	"	CF_3	p. 834	4)	C6 H10 F2 O	$CHF_2COBu\text{-}n$	

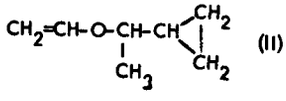
10867 SYNTHESIS OF VINYLNAPHTHALENES FLUORINATED IN THE SIDE CHAIN.
G. V. Kazennikova, T. V. Talalaeva, A. V. Zimin, A. P. Simonov, K. A. Kocheshkov.
L. Ya. Karpov Phys. Chem. Inst., USSR. Recd. June 1, 1960.
Izvest. Akad. Nauk SSSR Otdel. Khim. 1961(5),835-8.



1)	C12 H8 F2 O	(I)	p. 837	4)	C12 H9 F	(IV)		
2)	C12 H10 F2 O	(II)		5)	C13 H10 F2	(VI)		
3)	C12 H9 CL F2	(III)						

10868 POLYMERIZATION OF THE VINYL ETHER OF METHYLCYCLOPROPYLCARBINOL.
M. F. Shostakovskii, E. P. Gracheva, A. P. Meshcheryakov, V. G. Glukhovtsev.
Inst. Org. Chem., Acad. Sci., Moscow. Recd. Oct. 12, 1960.
Izvest. Akad. Nauk SSSR Otdel. Khim. 1961(5),924-6.

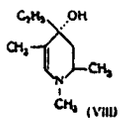
1) (C7 H12 O)n *polymer of (II)* p. 924

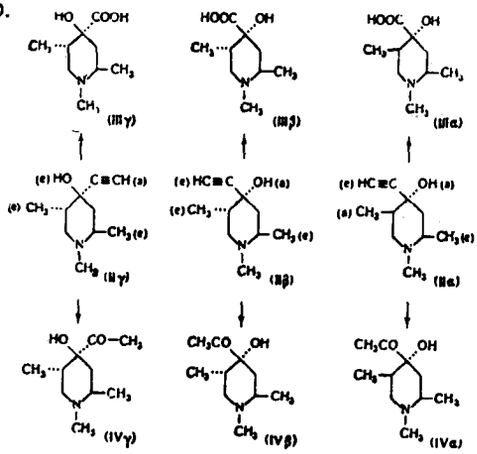


10869 REACTIONS OF ETHYLENE WITH TRICHLORO- AND TETRACHLOROETHYLENE.
A. B. Belyavskii, R. Kh. Freidlina.
Inst. Element. Org. Compds., Acad. Sci., Moscow. Recd. Apr. 29, 1960.
Izvest. Akad. Nauk SSSR Otdel. Khim. 1961(5), 838-42.

1)	C4 H5 CL3	$Cl_2C{=}CHCH_2CH_2Cl$	p. 840
2)	C4 H7 CL O2	$Cl(CH_2)_3COOH$	p. 841
3)	C6 H11 CL O2	$Cl(CH_2)_5COOH$	
4)	C12 H16 CL N O	$Cl(CH_2)_5CONHPh$	
5)	C7 H13 CL O2	Me ester of 3	
6)	C4 H5 Br2 CL3	$BrCl_2CCHBrCH_2CH_2Cl$	
7)	C4 H6 Br CL O2	$ClCH_2CH_2CHBrCOOH$	
8)	C10 H11 Br CL N O	$ClCH_2CH_2CHBrCONHPh$	
9)	C6 H4 CL8	$CCl_3CCl_2(CH_2)_2CCl{=}CCl_2$	
10)	C6 H5 CL7 O2	$Cl_3CCCl_2(CH_2)_2CCl_2COOH$	p. 842
11)	C6 H4 CL6	$Cl_2C{=}CCl(CH_2)_2CCl{=}CCl_2$	
12)	C6 H6 CL4 O4	$HO_2CCCl_2(CH_2)_2CCl_2CO_2H$	
13)	C4 H4 CL6	chlorination product of 1,1,2,4-tetrachloro-1-butene	
14)	C8 H7 CL4 N O6	product obtained upon treating polymer of 1,1,2-trichloro-1,3-butadiene with nitric acid	

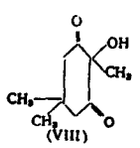
10870 STEREOCHEMISTRY OF HETEROCYCLIC COMPOUNDS. 5. POSSIBLE CONFIGURATION OF STEREOISOMERS OF 1,2,5-TRIMETHYL-4-ETHYNYL-4-PIPERIDOL AND SOME OF ITS TRANSFORMATION PRODUCTS.
N. I. Shvetsov, B. V. Unikovskii, I. A. Mokhir, V. F. Kucherov.
N. D. Zelinskii Inst. Org. Chem., Acad. Sci., Moscow. Recd. Mar. 29, 1960.
Izvest. Akad. Nauk SSSR Otdel Khim. 1961(5), 843-9.

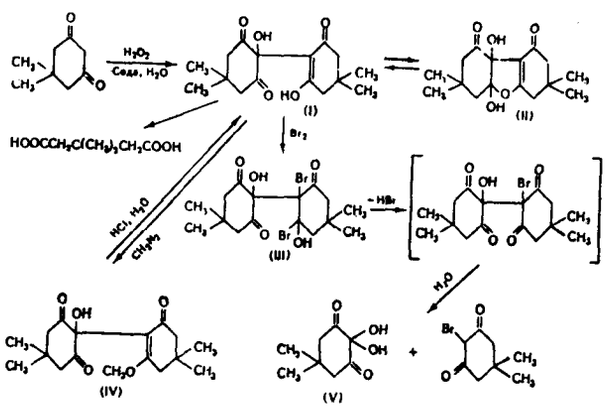

(VIII)


(IIIγ) (IIIβ) (IIIα) (IIγ) (IIβ) (IIα) (IVγ) (IVβ) (IVα)

1)	C10 H21 N O	(IIa)		p. 846
2)	C10 H19 N O	(VIII)		p. 847
3)	C11 H24 I N O		MeI of (II α,β,γ)	p. 846
4)	C10 H17 N O2		dehydration of (III α,β) (as HCl)	p. 848
5)	C10 H17 N O		dehydration product of (IV β) (as HCl)	

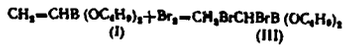
10871 CHEMISTRY OF DIHYDRORESORCINOL. 7. REACTION OF CYCLIC β-DICARBONYLIC COMPOUNDS WITH HYDROGEN PEROXIDE IN BASIC MEDIUM.
S. I. Zavyalov, A. F. Vasilyev, L. P. Vinogradova.
N. D. Zelinskii Inst. Org. Chem., Acad. Nauk, Moscow. Recd. May 3, 1960
Izvest. Akad. Nauk SSSR Otdel. Khim. 1961(5), 849-53.

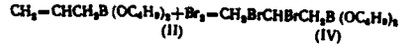

(VIII)


(I) (II) (III) (IV) (V)

1)	C16 H22 O5	(II)		p. 852
2)	C16 H22 Br2 O5	(III)		p. 853
3)	C17 H24 O5	(IV)		
4)	C9 H14 O3	(VIII)		

10872 β-DECOMPOSTION OF BUTYL ESTERS OF α,β-DIBROMOETHYLBORIC AND β,γ-DIBROMOPROPYLBORIC ACIDS.
B. M. Mikhailov, P. M. Aronovich.
Inst. Org. Chem., Acad. Sci., Moscow. Recd. Oct. 24, 1960.
Izvest. Akad. Nauk SSSR Otdel. Khim. 1961(5), 927-9.


(I) (III)


(II) (IV)

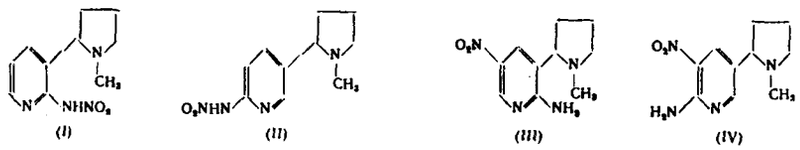
1)	C10 H21 B Br2 O2	(III)		p. 928
2)	C11 H23 B Br2 O2	(IV)		

10873 FREE RADICAL ADDITION OF PRIMARY ALCOHOLS TO α-OLEFINS.
G. I. Nikishin, V. D. Vorobev, A. D. Petrov.
N. D. Zelinskii Inst. Org. Chem., Acad. Sci., Moscow. Recd. May 10, 1960.
Izvest. Akad. Nauk SSSR Otdel. Khim. 1961(5), 882-6.

$RCH(OH)R^1$ (A)

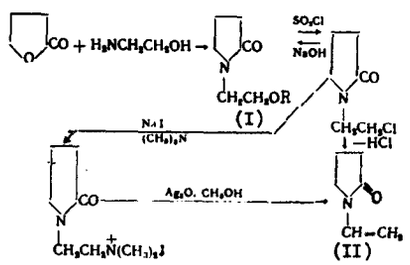
			R =	R' =				R =	R' =
1)	C15 H32 O	(A)	n-Bu	$C_{10}H_{21}$	p. 883	8)	C17 H36 O	(A)	n-heptyl	n-nonyl
2)	C18 H38 O	"	"	$C_{13}H_{27}$		9)	C15 H32 O	"	n-octyl	n-hexyl
3)	C14 H30 O	"	n-Am	C_8H_{17}		10)	C17 H36 O	"	"	n-octyl
4)	C16 H34 O	"	"	$C_{10}H_{21}$		11)	C16 H34 O	"	n-nonyl	n-hexyl
5)	C13 H28 O	"	n-hexyl	n-hexyl		12)	C17 H36 O	"	"	n-heptyl
6)	C14 H30 O	"	"	n-heptyl		13)	C17 H36 O	"	n-hexyl	n-decyl
7)	C15 H32 O	"	n-heptyl	"		14)	C18 H38 O2		9,10-octadecanediol	p. 886

10874 PRODUCTS OF NITRATION OF α- AND α'-AMINONICOTINES.
Ya. L. Goldfarb, L. V. Antik, V. A. Petukhov.
N. D. Zelinskii Inst. Org. Chem., Acad. Sci., Moscow. Recd. May 4, 1959,
Izvest. Akad. Nauk SSSR Otdel. Khim. 1961(5), 887-94.


(I) (II) (III) (IV)

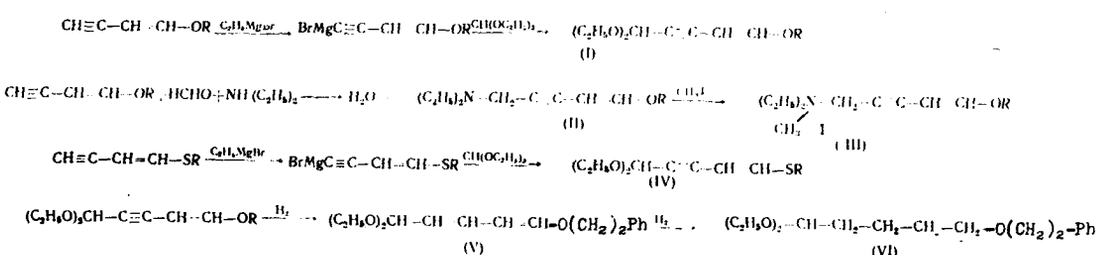
1)	C10 H14 N4 O2	(I)	(& picrate)	p. 891	4)	C10 H14 N4 O2	(IV)	(& picrate)	
2)	C10 H14 N4 O2	(II)	"		5)	C6 H13 N O		Et_2NCOMe	p. 893
3)	C10 H14 N4 O2	(III)	"						

10875 VINYLPYRROLIDONE SYNTHESIS.
S. N. Ushakov, U. V. Davidenkova, V. V. Lushchik.
Inst. Macromolecular Compds., Acad. Sci., Moscow. Recd. Apr. 9. 1960.
Izvest. Akad. Nauk SSSR Otdel. Khim. 1961(5), 901-5.



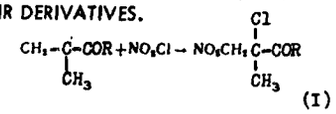
			R =	
1)	C6 H11 N O2	(I)	H	p. 904
2)	C8 H13 N O3	"	Ac	
3)	C6 H9 N O	(II)		

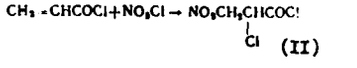
10876 DIACETYLENE DERIVATIVES. 8. REACTIONS OF ETHYNYLVINYL AND THIOETHYNYLVINYL ETHERS WITH CARBONYL COMPOUNDS.
M. F. Shostakovskii, A. V. Bogdanova, G. I. Plotnikova.
N. D. Zelinskii Inst. Org. Chem. Acad. Sci., Moscow. Recd. Jan. 19, 1960.
Izvest. Akad. Nauk SSSR Otdel. Khim. 1961(5), 905-9.



			R =					R =			R =
1)	C13 H22 O3	(I)	Bu	p. 908	5)	C16 H21 N O	(II)	benzyl	9)	C11 H18 O2 S	(IV) Et
2)	C17 H22 O3	"	$PhCH_2CH_2$		6)	C14 H26 I N O	(III)	Bu	10)	C13 H22 O2 S	" Bu
3)	C13 H23 N O	(II)	Bu	p. 909	7)	C20 H34 I N O	"	perhydronaphthyl	11)	C17 H24 O3	(V)
4)	C19 H31 N O	"	perhydronaphthyl		8)	C17 H24 I N O	"	benzyl	12)	C17 H28 O3	(VI)

10877 ADDITION OF HYDROGEN CHLORIDE TO ACRYLO- AND METHACRYLONITRILES AND THEIR DERIVATIVES.
S. S. Novikov, G. A. Shvekhgeimer, N. F. Pyatakov.
N. D. Zelinskii Inst. Org. Chem., Acad. Sci., Moscow. Recd. Aug. 15, 1960.
Izvest. Akad. Nauk SSSR Otdel. Khim. 1961(5), 914-5.

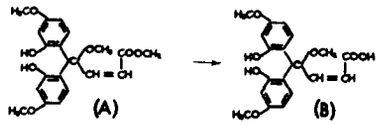




			R =					R =
1)	C4 H6 CL N O4	(I)	OH	p. 915	3)	C4 H5 CL2 N O3	(I)	Cl
2)	C5 H8 CL N O4	"	MeO		4)	C3 H3 CL2 N O3	(II)	

10878 INVESTIGATION OF THE STRUCTURE OF A PRODUCT FROM THE CONDENSATION OF MALEIC ANHYDRIDE WITH RESORCINOL.
Y. Graff, J. Calando, M.-H. Gardin.
Faculte des Sciences de Rennes, Centre propedeutique de Nantes, 16, quai Moncousu, Nantes(L.-A.). Recd. Mar. 17, 1961.
Bull. Soc. Chim. France. 1961(6),1106-9.

1) C20 H22 O7 (A) p. 1108
2) C19 H20 O7 (B) p. 1109



10879 ACTION OF AN H_2-H_2S MIXTURE ON ANHYDROUS COBALT SULFATE; PREPARATION OF Co_9S_8.
D. Delafosse, M. Abon, P. Barret.
Lab. de Chim., M.P.C., Fac. des Sci., 2 Boulevard Gabriel, Dijon, France. Recd. Feb. 18, 1961.
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1) Co9 S8 Co_9S_8 p. 1110.

10880 SOME PRIMARY α, γ-DIETHYLENIC ALCOHOLS AND THEIR ISOMERIZATION INTO 2,3-DIHYDRO-α-PYRANS.
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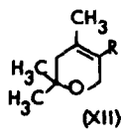
$CH_3 - C(R) = C(R') - C(CH_3) = C(R'') - CH_2OH$ (II)

$(CH_3)_2C = CH - C(CH_3)(OH) - C(CH_3)_2 - CH_2OH$ (XIV)


(XII)

			R=	R'=	R''=	
1)	C7 H12 O	(II)	H	H	H	p. 1125
2)	C8 H14 O	"	"	"	Me	
3)	"	"	"	Me	H	
4)	"	"	Me	H	"	
5)	C9 H16 O	"	H	"	Et	
6)	"	"	"	Me	Me	
7)	"	"	Me	H	"	
8)	C10 H18 O	(II)	H	Me	Et	
9)	"	"	Me	H	"	
10)	C8 H14 O	(XII)	H			p. 1127
11)	C9 H16 O	"	Me			
12)	C10 H18 O	"	Et			
13)	C10 H20 O2	(XIV)				
14)	C10 H18 O		dehydration prod. of XIV			p. 1128
15)	C17 H23 N O2		mono-Ph-urethane of 14			

10881 ON THE TERTIO-ALKYLATION OF GUAIACOL.
N. Dat-Xuong, N. P. Buu-Hoi, B. Khac-Diep.
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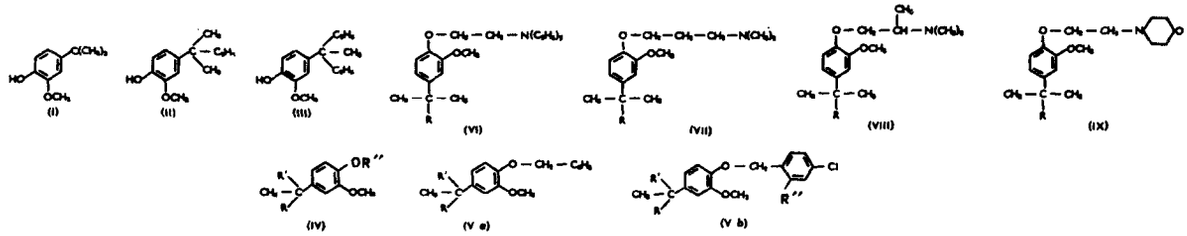

			R=	R'=	R''=	
1)	C13 H20 O2	(IV)	Me	Me	Et	p. 1138
2)	C15 H24 O2	"	"	"	Bu	
3)	C27 H48 O2	"	"	"	hexadecyl	
4)	C13 H20 O2	"	Et	"	Me	
5)	C14 H22 O2	"	"	"	Et	
6)	C17 H28 O2	"	"	"	Am	
7)	C16 H26 O2	"	"	"	Bu	p. 1139
8)	C28 H50 O2	"	"	"	hexadecyl	
9)	C17 H28 O2	"	"	Et	Bu	
10)	C18 H21 CL O2	(Vb)	Me	Me	H	
11)	C18 H20 CL2 O2	"	"	"	Cl	
12)	C19 H23 CL O2	"	"	Et	H	
13)	C19 H22 CL2 O2	"	"	"	Cl	
14)	C20 H25 CL O2	"	Et	"	H	
15)	C20 H24 CL2 O2	"	"	"	Cl	
16)	C18 H22 O2	(Va)	Me	Me		
17)	C20 H26 O2	"	Et	Et		
18)	C17 H29 N O2	(VI)	Me			
19)	C16 H27 N O2	(VII)	"			
20)	"	(VIII)	"			
21)	C17 H27 N O3	(IX)	"			
22)	C18 H31 N O2	(VI)	Et			
23)	C17 H29 N O2	(VII)	"			
24)	"	(VIII)	"			
25)	C18 H29 N O3	(IX)	"			
26)	C12 H18 O2	(II)				p. 1138
27)	C13 H20 O2	(III)				
28)	C11 H15 Br O2		x-Br deriv. of I			
29)	C12 H17 Br O2		" II			
30)	C13 H19 Br O2		" III			
31)	C19 H33 N O2		β-NEt_2-Et ether of III			p. 1139
32)	C12 H18 O5 S		sulfonic acid deriv. of II			p. 1138
33)	C13 H20 O5 S		" " III			
34)	C11 H16 O5 S		" " I			