

CIA-RDP86-00513R001137

3637 s/580/61/000/000/006/016 A057/A126 1 3410 Chirko, A.I.; Nikonenko, M.G. AUTHORS: Autoxidation of cyclohexylidenecyclohexane TITLE: Yerofeyev, B.V. and Tishchenko, I.G., eds. Zhidkofaznoye okisleniye nepredel'nykh organicheskikh soyedineniy, Minsk, 1961, 63 - 72 SOURCE: Kinetics and products of initiated liquid-phase autoxidation of cyclohexylidenecyclohexane (I) are investigated in present work. A method employed TEXT: in an earlier investigation was used in studying kinetics. The method of N.D. Zelinskiy was used to prepare (I) from cyclohexanone. Because of the instability of (I) reproducible results of the autoxidation kinetics could be obtained only with (I) freshly distilled over metallic sodium. Manganese stearate and caprinate, as well as cobalt acetate showed the greatest activity among 8 different initiators tested in autoxidation at 70°C. However, these substances effect also a decomposition of the primarily formed hydroperoxide. The most suitable initiator for the preparation of the hydroperoxide was found to be a 0.5% admixture of manganese acetate. The obtained primary product of autoxidation was determined to be 1-cyclohexylidene-hydroperoxide-cyclohexane-2 since by thermal decomposition of the X Card 1/2

Autoxidation of cyclohexylidenecyclohexane

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latter 1-cyclohexylidene-cyclohexanone-2 was obtained, i.e., decomposition occurs without rupture of cycle and evolution of CO2. Thus, the autoxidation occurs on the secondary carbon atom of the a-methylene group of the cycle. The rate of autoxidation was studied in dependence of the concentration of the initiator, of the concentration of (I), of the temperature, and of the molar weight of the anion of the initiator. Acetic acid, formed during autoxidation from the initiator used, was not decarboxylized. It is characteristic that an increase of the concentration [u] of cobalt acetate increases the maximum  $V_{fi}$  of autoxidation, but decreases the average rate of autoxidation. The dependence of  $V_m$  on the concentration of (I) can be expressed by  $V_m = KC_m^n$ . From the temperature dependence of the rate of autoxidation  $logV_m - 1/T$  the activation energy was calculated with 19,585 cal/ /mole. The increase of the molecular weight of the anion of the initiator (manganese formiate, acetate, caprinate, and stearate) causes an increase of  $V_{\Box}$  and of the oxidation degree, while the content of hydroperoxide decreases (in relation to the oxidation degree). This can be expressed by  $V_{m} = K4$  (M - molecular weight of the anion of the initiator,  $K = 1.7 \cdot 10^{-4}$ . There are 4 figures and 5. tables.

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X













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	kono <b>rav, K.</b> Y.;	Hixonenko, V.	A.				
ORG: Insti	tute of Organic oy khimii Akade	Chemistry, Ac	adeny of S	iciences,	SSSR, Ka	zan' (Inst:	ltut
TITLE: Syn reethylphos	thesis of some phonate	derivatives of	β,β'-dic)	lorodisth	yl a-hyd	ra <b>xy-</b> 8,8,8	-trichlo-
SOURCE: AN	SSSR. Izvesti	lya. Seriya kh	imiahoskaj	ra, no. 8,	, 1966, 1	373-1377	
TOPIC TAGS	phosphonic ad	cid, organic ph	osphorus (	compound			
tives of di secticidal $\beta,\beta^*$ -dichlo actions wit was propare	Earlier work ha alkyl a-hydroxy activity. Conf prodicthyl a-hydroxy th chlorides of d by reacting of s of (I) were sp CiCH <sub>2</sub> CH <sub>4</sub> OH <sub>4</sub> O <sub>4</sub> P-CI (I) 0 CC	y-β,β,β-trichlo tinuing those s iroxy-β,β,β-tri lower carboxyl chloral with β, ynthesized as f HOH + CICOR + (CH	prophosphon studies, th chlorooth io acid an ,β°-dichlos follows: chN→ (ClClfe	natos had no authors ylphosphor nd acetic rodisthylp	a markod ; doscrib nato (I) anhydrid phosphoro	o the synt and some o a. Compou us acid, a	hesis of f its re- ind (I)
Card 1/3	R == CeHe, C	ittra, Cettr-1,	OCalls, UDC s	CII1CI, 542.91+66	Ciicie 51.718.1	CCI.	:

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NR: AP6032589		Yich.	П. рС 19. ма	MP	*D	ą	MR	
	Table 1 Fermula	*	(P. m. Hg]	5	0"	-4	found culated	
Number	FARMAIR	• J						
(I) (I)		79,3	-	8583	-	-	- •	-
. (11)	۵ (Cie (CiCii <sub>s</sub> Cii <sub>s</sub> O),P—CiiOCOCii ا	75,5	158—139 (0,012)	<b>—</b> ;	1,4975	1,5228	76,06	75,87
(111)	O CCI. (CICHI4CH40),P-CHOCOC4H.	47,0	143145 (0,013)		1,4955	1,4837	80,75	80,51
(1V)	O CCI. (CICH,CH4OkP—CHOCOC4H+*	, 40,1	154—155 (0,013)	-	1,4925	1,445	85,34	85,13
(¥)	Ö ĊĊIa (CICIIaCIIaO)aP—CIIOCOCaIIa-i	44,7	137-139 (0,615)	_	1,4938	1,4321	. 85,83	85,13
(41)	415000000000000000000000000000000000000	52,2	165-168 (0,012)	-	1,4917	1,5334	62,27	62,15
(VII)	ې (ClciiaCiiaCiiaCiiaCiiaCiiaCiiaCiiaCiiaCiia	44,8	-	\$2-53	<u> </u>	-	-	-
(VIII)	ں جرب ہوں۔ 101120-112-13 میں 102112-13	55,6		81-83		-	- '	-
(IX)	0 000 (CICIII,CIII,0),PCII000000	44,5		61-63	· -		1 -	-
_2/3	ð öch		<u></u>	<u> </u>			!	<b>.</b> .

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收购制度

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NIKONETS, I.F. Gecupational dermatitis related to the production of analgin and para-aminosalicylic acid. Vest. derm. 1 ven. 34 no.4160-61 '60. (MIRA 13:12) (SKIN-DISFASIS) (SALICYLIC ACID) (AMINOPYRINE)

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CIA-RDP86-00513R001137

FIRSOVA, P.P.; MAISIUK, A.P.; NIKONOROV, A.I.
Diagnosis and treatment of cartilaginous formations in the lungs. Rhirurgita 38 no.12:28-34 D '62. (MIRA 17:6)
1. Is Instituta khirgurgii imeni A.V. Vishnevskogo (direktor deystvitel'nyy chlen AMN SSSR prof. A.A. Vishnevskiy) ANN SSSR.

CIA-RDP86-00513R001137



CIA-RDP86-00513R001137

L 31328-66 EWT(m)/EWA(d)/EWP(t) IJF(c) MJ#/JD ACC NR: AP\$025591 SOURCE CODE: UR/0129/65/000/010/0016/0016		
AUTHOR: Nikonerove, A. I.; Florensova, F. R. 17		
ORD: none TITLE: <u>Nitriding of sustanitio steels</u>		
SOURCE: Metallovedeniye i termicheskaya obrabotka metallov, no. 10, 1965, 16-18		
TOPIC TAGS: nitridation, case hardening, steel, austenitic steel, nitriding, steel nitriding, nitrided case, case hardness, magnetic permeability, paramagnetic case/ * OKh2ON4Ag10 steel, 2Kh16N9 steel, EI395 steel, EI702 steel		
ADSTRACT: An attempt has been made to obtain a paramagnetic nitrided layer in * OKh2ONUAg10, 2KhN9; E1395; E1702 Sustenitic steels. Nitriding was done in a mixture of ammonia and ammonium chloride at 560, 600, and 650C. A nitrided case 0.2 mm deep with a respective hardness of 1027-1171 and 857-1027 was obtained in OKh2ONUAg10 - and <u>2Kh18N9</u> steels. In the other two steels, the case was only 0.07-0.00 mm deep. Nitriding increased the megnetic permeability of all the four steels owing to the formation of megnetic hitrides FeLN, (Fe, Kn)LN, and Cr2N. However, annealing at 750 to 800C substantially reduced the megnetic permeability of the nitrided OKh2ONUAg10 steel. K-ray diffraction patteren showed that annealing at 800C resulted in the		
* Original states OX20H4AMU not OX20H4AMO	-	
Card 1/2 UDC: 621.787.61621.785.52.53		

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L 3132d-66 ACC NR APSO2 decomposition GrN nitrides	of ferroment	wtib nitride h20NkAg10 st d eir coolir	s and the sel at 550 s, yields	formation of for 48 i a nitride	of persease ur, followe i layer 0.2	netic Kn.N and d by annualing 50.30 mm t axmeeding	
thick with a	hardness of H	N 820850 (	nd a megin	16. 1610 have	•	ATD PRESS: La	
SUB COURT A							
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NIKONOROV, I. V. Cand Tech Sci. -- (diss) "Catching of Caspian sprat by means of a fish pump with underwater illumination". Hos, 1957. 10 pp 20 cm. (Mos Tech Inst of the Fish Industry and Economy im Wikoyan) 115 copies (KL, 9-57, 101)

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"APPROVED FOR RELEASE: Tuesday, August 01, 200 CIA-RDP86-00513R001137. 8(0) SOV/112-59-4-7249 Translation from: Referativnyy shurnal. Elektrotekhnika, 1959, Nr 4, p 115 (USSR) AUTHOR: Nikonorov, 1. V. TITLE: Electric Tackle for Tuna Fishing PERIODICAL: Tekhn.-ekon. byul. Sovnarkhoz Astrakhansk. ekon. adm. r-na, 1958, Nr 4, p 35 ABSTRAGT: Bibliographic entry. Card 1/1

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CIA-RDP86-00513R001137

BELYAYEVA, V.N.; NIKONOROV, I.V.

JER GUY

Causes of the attraction of fishes by light. Vop. ikht. 1 no.3: 513-518 <sup>6</sup>61. (MIRA 14:11)

1. Kaspiyskiy nauchno-issledovatel'skiy institut morsiogo rybnogo khosyaystva i oksanografii - KaspNIRO. (Caspian Sea--Electric fishing) (Light--Physiological effect)

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FA 35/4979 MININGROV, K. V. Thiossters of Phosphoric Acid," Acad A. Ye. Arbuzov, K. V. Bikoporov. Chem Inst imeni A. Ye. Arbuzov, Kapan Affiliate, Acad Sci USSR, 4 pp UBSSR /Chemistry - Phosphoric Aoid, "Synthesis and Studies of the Properties of Mixed The compounds (C. H,O) "Dok Ak Hauk SSSR" Vol LXII, No 1 USSR /Chomistry - Fheepheric Acid. th yleins of D THE FRY JORN (CLERED) stable compounds cridizing rapidly in air, and boil between 75° and 120° under 10 - 15 mm pressure. HONLOND : REFC1<sub>2</sub> + 2REMA  $\rightarrow$  ROF(SR)<sub>2</sub> + 2NaC1. mitted 9 Jul 48. Butefly describes their chemical properties. Chemistry - Syntheols 7 10530 Thicesters g Thiossters (Contd) ĥ 02) AO SCAR, CAROP(SCAR) and 85% respectively, an ۶, (HO)2PSR + Haul; 2 were synthesized They are m-Geb Sep 49 5156475 35/4979 Ē ۰, 



PUDOVIK, A.N., MIKOHOROV, K.V.



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CIA-RDP86-00513R001137





NIKONOROV, K. V.; VINOKUROVA, G. H.; SPERANSKAYA (Chem. Inst. 1m. Acad. A. Ye. Arbuzov, Kazan Ar. As USSR)

"Synthesis of Some Esters of alpha-Dialkylphosphon-beta, beta1, beta2-trichlorosthylphosphoric Acid and Deratives of Pyrophosphoric Acid (sinter nekotorykh efirov alpha-dialkilfosfon-beta, beta1, beta2-trikkloretilfosfornoy kislaty i proistodnykh pirofosfornoy kislaty)

> Chemistry and Uses of Organophosphorous Compounds (Khimiya i primeneniye fosfororganicheakikk soyadneniy), Trudy of First Conference, 8-10 December 1955, Kazan, TP. Published by Kazan Affil. AS USSR, 1957 123-231







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CIA-RDP86-00513R001137

AUTHORS:	Nikonorov, K. V.; Speranskaya, Z. G. SOV/62-58-8-8/22
TITLE:	Synthesis of Octaalkyl Tetraamido Pyrophosphate and Octaalkyl Tetraamido Thiopyrophosphate (Sintez oktaalkiltetraamidpiro- fosfatov 1 oktaalkiltetraamidticpirofosfatov)
PERIODICAL:	Izvestiya Akademii nauk SSSR; Otdeleniye khimicheskikh nauk, 1958, Nr 8, pp. 964-967 (USSR)
ABSTRACT :	In the present paper the authors tried to synthesize some alkyl amides of pyrophosphoric and thiopyrophosphoric acid. Besides, they investigated the alkyl amides with respect to their insecticide properties. As may be seen from this paper containing analogs of pyrophosphoric and thiopyrophosphorio acid; they are: heramethyl-diethyl tetraamido pyrophosphorio tetramethyl-tetraethyl tetraamido pyrophosphate, tetramethyl- aaido pyrophosphate, cotaethyl tetraamido pyrophosphate, hera- methyl-diethyl tetraamido pyrophosphate, hera- methyl-diethyl tetraamido pyrophosphate, hera- ethyl tetraemido thiopyrophosphate, tetramethyl tetra- methyl-diethyl tetraamido thiopyrophosphate, tetramethyl tetra-
Dard 1/2	amido thiopyrophosphate, and octaethyl-tetraamido thiopyrophosphate, and octaethyl-tetraamido thiopyro-

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CIA-RDP86-00513R001137

AUTHOR:	Nikonorov, E. V.	sov/62-50-11-10/26
TITLE:	Trichloroethyl Phosphoric Aci <u>A.A.A.Trichloroethyl Ester</u> Derivatives (Sintes nekotoryk <u>A.A.A.trikhloretilfosforno</u>	L-(Dialkyl Thosphono)- $\beta$ , $\beta$ , $\beta$ - d and $\infty$ -(Dialkyl Phosphono)- s of Carborylic Acids and Their h efirov $\infty$ -(dialkilfosfon)- y kisloty i $\infty$ -(dialkilfosfon)- irov karbonovykh kislot i ikh
PERIODICAL	Isvestiya Akademii nauk SSSR 1958, Nr 11, pp 1340-1344 (U	Otdeleniye khimicheskikh næuk, SSR)
ABSTRACT	between dimethyl - (I) and di $\alpha - \alpha xy - \beta, \beta, \beta$ -trichloroethy chlorides of dialkyl phosphor The initial compounds (I) and to the method by Barthel and the interaction of dimethyl s $\alpha - \alpha xy - \beta, \beta, \beta$ -trichloroethy chlorides of the dialkyl phos	1 phosphinic acid and various is and some carboxylic acids. (II) were produced according his collaborators (Ref 2). By and diethyl ester of the 1 phosphinic acid with acid phoric acid in the presence of
ard 1/3	triethylamine various esters	of the &-(dialkyl phosphono)-

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Synthesis of Some Esters of \infty-(Dialkyl Phosphono)- ::0V/62-58-11-10/26
/A_{s}, \beta_{s}-Trichloroethyl Phosphoric Acid and
oc-(Dialkyl Phosphono)- \beta_{s}, \beta_{s}-Trichloroethyl Esters
of Carboxylic Acids and Their Derivatives
```

/S, /K, /K-trichlorophosphoric acid were obtained. By the interaction of dimethyl and diethyl ester of the of-oxy-A, A, B-trichloroethyl phosphinic acid with acyl halides a-(dialkyl phosphono)- B, B, B-trichlorsethyl ester of the carbomylic acids and some of their derivatives could be obtained in good yields. The constants of the obtained esters are given (Tables 1 and 2). Since the initial acapounds, especially (I), are strong insecticides (Ref 5) the synthesized esters were examined also in this respect. The first experiments carried out at the Kasanskiy filial Akademii nauk SSSR (Kazan<sup>®</sup> Branch of the Academy of Sciences USSR) by M. A. Kudrina have shown that all products obtained dispose of rather strong insecticide properties. Investigations carried out in the scientific institute po udobreniyam i insektofungisidam (Institute of Fertilizers and Insectofungicides) by Ye. A. Pokrovskiy have shown that the compounds have a systematic action on some types of corrodentia. There are 2 tables and 4 references, 1 of which is Soviet.

Card 2/3

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-

 "APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001137.
 Synthesis of Some Enters of d-(Dialkyl Phosphono)- SOV/62-58-11-10/26 [1, 6, 6, 4 - Trichloroethyl Phosphorio Acid and d-(Dialkyl Phosphono)- (S, 6, 6 - Trichloroethyl Esters of Garboxylie Acide and Their Derivatives
 ASSOCIATION: Thisicheskiy institut im. A. Ye. Arburova Karanskogo filiala AN SSSR (Chemical Institute imeni A. Te. Arburov, Karan' Branch of the Academy of Sciences, USSR)
 SUBMITTED: Karch 18, 1957



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CIA-RDP86-00513R001137

. 35321-66 ENT(B)/ENE(1) HH CC NR. AP6026895	SOURCE CODE: UR	/0062/65/000/012/2136/	/2140
UTHOR: Nikonorov, K. V.; Guryle	v. E. A.		8
RG: none		E	5
ITLE: Certain esters of ethylph	nosphinic scid		
OURCE: AN SSSR. Izvestiya. Se	eriya khimicheskaya, no. 1	2, 1965, 2136-2140	
	cid, chemical synthesis		
OPIC TAGS: ester, phosphinic ac BSTRACT: The authors describe ( alpha-acetoxy-beta, beta, beta-	the synthesis of certain (	TUIC DA LANCATOR AP	~
BSTRACT: The authors describe ( alpha-agetoxy-beta, beta, beta- icatic anhydride with the esters bhosphinic acid in the presence of this also led to the synthesis of (alpha-oxy-beta, beta, beta-trichle of incomplete esters of ethylphs that the dehydrochlerination of ( trichlereethyl)phosphinic acid la beta, beta-dichlorovinyl esters of [JFRS: 36,455]	the synthesis of certain of trichlorecthyl)phosphinic of ethyl_elpha-oxy-beta, of several drops of conc. f previously undescribed oroethyl)-phosphinic acid ophinous acid with chlore esters of ethyl_elpha-oxy ands to rearrangent with f ethylphosphinic acid.	esta by reaction of seta, beta-trichloroeth H2SO4 as catalyst. obtained by reaction 1. It is shown beta, beta, beta- the formation of Drig. art. has: 1 tab	
BSTRACT: The authors describe ( alpha-acetoxy-beta, beta, beta- icetic anhydride with the esters bhosphinic acid in the presence of this also led to the synthesis of alpha-oxy-beta, beta, beta-trichle of incomplete esters of ethylpho- that the dehydrochlorination of trichloreethyl)phosphinic acid le beta, beta-dichlorovinyl esters of	the synthesis of certain of trichlorecthyl)phosphinic of ethyl_elpha-oxy-beta, of several drops of conc. f previously undescribed oroethyl)-phosphinic acid ophinous acid with chlore esters of ethyl (elpha-oxy ends to rearrangent with f ethylphosphinic acid. 2Aug63 / ORIG REF: 004	esta by reaction of seta, beta-trichloroeth H2SO4 as catalyst. obtained by reaction 1. It is shown beta, beta, beta- the formation of Drig. art. has: 1 tab	

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CIA-RDP86-00513R001137

CC NR: AP	ikonora <b>v</b> , K.	V.; Mikonenko		E COLE ( UR/006	• • • • •	,
RG: Inst rganiches	itute of Orga koy khimii Ak	nic Chemistry ademii nauk S	, Academy of SSR)	Sciences, SSSR,	Kazan' (Inst:	ltut
NITLE: Sy cothylpho	nthesis of so sphonate	<b>me</b> derivative	s of β,β'-dic	hlorodiethyl a-	hydraxy-8,8,8	-trichlo-
IOURCEI A	N SSSR. IEve	stiya. Seriy	a khimicheska	ra, no. 8, 1966	. 1373-1377	
			le phosphorus			
tives of d secticidal β,β <sup>*</sup> -dichl actions wi Was prepar	ialkyl a-hydr activity. O orodiethyl a- th chlorides ed by reactin s of (I) were	axy-8,8,8-tri bontinuing the hydroxy-8,8,6 of lower cart g chloral wit synthesized	lchlorophospho ose studies, t β-trichlorooth coxylic acid a th β,β'-dichlo as follows: +(CelleN-> (CICIE	othylcarbonic nates had a mar ho authors dosc ylphosphonate ( nd acetic anhyd rodiethylphosph CH <sub>1</sub> O),PCHOCON+(C X) O CCL	ked fungicida ribe the synt I) and some o ride. Compou corous acid, a	l and in- hesis of f its re- nd (I)

NAP HISTOPHYS

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CIA-RDP86-00513R001137

	32589 Table 1	Yick		MP	* <sup>33</sup>	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	<u> </u>	
Namber	Formula	*	Hg)	~			found	cal-
(1)	(CiCil <sub>s</sub> Cil <sub>s</sub> O) <sub>s</sub> P—CilOil I O CCls	79,3	-	86-80	_	-	-	-
· . (11)		75,5	158—139 (0,012)		1,4975	1,5228	76,06	75,69
(111)	(CICH <sub>4</sub> CH <sub>4</sub> O) <sub>4</sub> P—CHOCOC <sub>4</sub> H <sub>4</sub> I O CCI <sub>4</sub>	47,0	143—145 (0,013)		1,4955	1,4837	80,75	8 <b>0,5</b> 1
(14)	(CICH <sub>1</sub> CH <sub>1</sub> O) <sub>2</sub> P—CHOCOC <sub>4</sub> H <sub>7</sub> •	46,1	154—155 (0,013)	-	1,4925	1,445	85,34	85,13
(¥)	(CICH4CH40),P—CH0COC411,-7       0 0 CCl4	44,7	137—139 (0,615)	-	1,49-78	1,4321	. 85,83	65,13
(VI)	(CICH4CH4O)4P—CHOCOOC4H4	52,2	(66—(68 (0,012)	<u> </u>	1,4917	1,5334	82,27	62,15
<b>(VII)</b>	(CICH <sub>2</sub> CH <sub>2</sub> O) <sub>2</sub> P—CHOCOCH <sub>2</sub> CI I U CCL <sub>2</sub>	44,8	• 🗕	52–53	-	_`	-	
(VIII) - ·		55,6	-	61-63	-	-	-	
2/3		44,5		(1-63		-		-

CIA-RDP86-00513R001137

The physical constants of the synthesized derivatives of $\beta$ , $\beta^*$ -dichloroethyl $\alpha$ -hydroxy- $\beta$ , $\beta$ , $\beta$ -trichloroethylphosphonate are shown in Table 1. Orig. art. has: 1 table.						<b>y</b>			
SUB CODE:	07/	SUBM DATE:	278-664/	ORIG REFI	00 <i>5 </i>	oth R271	001		
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	SOURIZ DDIZI VR/0423/66/060/011/6321/9321
WITHOR: WIKONOTOV, K. V.; CUL	ylev, E. A.
ORG: none	3B
TITLE: Preparation of (6-mono Class 12, No. 182155	o-) or (8-dihelo-a-hydroxyethyl)phosphonous acids.
SOURCE: Isobreteniya, promysh	lennyye obrattey, tovarnyye maki, no. 11, 1966, 21
ABSTRACT: The subject of this (A-dihalo-a-hydroxyethyl)phosp boiling inert solvent with sub	invention is a method for preparing the $(\beta - mono-)$ or honous acids by treating hypophosphorous acid in a ydrous a-haloaldehyde. [JK]
SUB CODE: 07/ SUBM DATE: 13	Apr65
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ACC NR: AP7011353

moval of a chloride anion. The most probable site of the molecule subjected to attack by the electron should be the carbon atom of the trichloromethyl group. This was confirmed experimentally. The first step of the electrode reaction was characterized on the basis of the theory of irreversible waves. The heat of activation characterizing the first step was found to be 12.9 kcel/mole. V. I. Sannikova and I. B. Karimova took part in the experimental work. Orig. art. hass 5 figures and 2 formulas. /JPRS: 40,3517

Card 2/2




CIA-RDP86-00513R001137







**非公司法的形式的职行的法律** 

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8(6)	
SOV/112-59-2-2484 Translation from: Referativnyy zhurnal. Elektrotekhnika, 1959, Nr 2, p 31 (USSR)	
AUTHOR: Nikonorov, V. A.	
TITLE: Aerodynamic Investigation of Small-Size Furnaces of Higher Thermal Loads (Aerodinamicheskoye issledovaniye malogabaritnykh topok povyshennogo teplovogo napryazheniya)	
PERIODICAL: V sb.: Parotekhnika (MVTU, 81). M., Mashgiz, 1957, pp 87-116	
ABSTRACT: It has been established that on air and hydraulic furnace models with combustion-surface loadings of $2-4 \times 10^6$ kilocal $3/m^2$ hr better vaulting of the furnace brings about better aerodynamics which, in turn, results in better fuel combustion and higher furnace gas resistance. The vault resistance obtained with model tests and expressed by the criterial relation $\xi_{\rm SV} = 2\xi_{\rm I}$ adequately agrees with experimental data obtained from tests of steam-locomotive furnaces. This relation is presented in the form of a formula and nomogram.	
B.I.L.	
Card 1/1	

SOV/124-57-4-4133 Translation from: Referativnyy zhurnal. Mekhanika, 1957, Nr 4, p 41 (USSR) Nikonorov, V. A. AUTHOR: A Study of the Flow of Gases in a Locomotive Boiler (Izucheniye TITLE: dvizheniya gaza v parovoznom kotle) PERIODICAL: Sb. statey Mosk. vyssh. tekhn. uch-shcha, 1955, Vol 43, pp 93-99 ABSTRACT: The results of an experimental investigation of the flow of gases in a locomotive boiler are presented. The experiments were performed on a one-fifth scale L-series-locomotive model of a boiler constructed from organic glass. Smoke-filled air was injected into the model by means of a fan. The hydraulic resistance of the different sections of the boiler-ducting system was investigated. It was found that the gas flow over the surfaces of the furnace is distributed irregularly, forming an eddy region over the crown of the furnace which results in an increased hydraulic resistance of the furnace. The over-all hydraulic losses in the boiler total 400 kg/m<sup>2</sup>. To obtain a clearer conception of the flow of the gases in the boiler, tests were likewise performed on a one-tenth-scale hydraulic model. The model was placed in a horizontal channel with colored running water. The investigations Card 1/2





运动限制组织的

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POPOV, S.A., kand. tekhn. nauk, dots.; LUKICHEV, D.M., kand. tekhn. nauk, dots.; SKWORTSOVA, N.A., kand. tekhn.nauk, dots.; NIKONOHOV, V.A., kand. tekhn. nuuk, dots.; MINUT, S.E., dots.; RESHETOV, L.N., doktor tekhn. nauk, prof.; NIKOLAYEVSKIY, Ye.V., assist.; MASTRYUKOVA, A.S., kand. tekhn. nauk;

[Theory of mechanisms] Teoriia mekhanismov; kure lekteii. [By] S.A.Popov i dr. Pod red. L.N.Reshetova. Moskva, No.5. 1962. 123 p. (MIRA 16:7)

1. Moscow. Moskovskoye vyscheye tekhnicheskoye uchilishche. (Mechanisme)



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•	E(k)/T/EME(Y)/EMF(t)/ETI (M) SOURCE CODE:	UR/0193/66/000	10/10 1007/0005/000/	
AUTHOR: Gedovius, G. I.	L. A.: Makhanev, V.	Ter Mikonorov.	V. Ist Kirevey	
ORG: BORG			<i>U</i> 1	-
TITLE: Carbon die	<b>Tiden</b> obiotics		390	
SOURCE: Emilia	<u>Elda-shisidad arc vel</u>	ding of steel		· .
S-6	tekhniko-ekonomiche	they informatel	L. no. 7, 1966.	
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ABSTRACT . 4			WIN Steel	
super-strength' steel she	of carbon dioxide-sh etsi2.8 mm thick has been dev a welder equipped wit	felded arc weld	Ing of 28Kh JSHAVYA	
ossible to adjust	a warder equipped wit	h & resistor wh	feb min industry.	
TUSA2-61) of come	ility and adequate st	rength of the w	2 amp. To ensure	
				~ .
a a maximum length	close as possible (the cotal s	ne gap should no Weld length) on	C exceed 0.2 mm	.
ard 1/2	UDC: 621.791.1	153.9-57	Steel	
Card 2/2 hs			<u> </u>	
and a statistic of passes in the statistic				

ACC NR. AT6024928 JD/HH/EH/JH AUTHOR: Loktionove	(A,N) <u>H. A.; Ovchinnikov</u>	Tu. F.: Kikonarare Te.	66/000/004/0187/0191	-
V. H.; Lepine, L. V	.; Perevoschikov, A.	V. Statepor, V.L.	42	
QRG: none	26 5 resses in wold joints	17	B+1	
(Heat resistant and TOPIC TAGS: tensil	high-strength alloys			
ation			2	
ABSTRACT: The resi were determined by tempering of the we was found that long sidual stresses up the weld joints. A does not change the fected some as comp ing of the some of	dual stresses in vari a mechanical method, ld joints on the magn itudinal residual str to 11-12 kg/mm <sup>2</sup> in th rtificial aging of th magnitude and charace ared to the residual the weld joint by ind	ous parts of a welded sta and the influence of the itude of these stresses esses up to 10-11 kg/m2 e transverse direction as e weld joints of ATsH all ther of the residual stress stresses in the naturally inction heating to 240-250 ne with water increases	Tucture of ATeM alloy artificial aging and was investigated. It and compressive re- rise in the some of loy for 100 hr at 90° sees in the heat-af- y aged state. Temper- 0°C for 4-5 min fol-	

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longitudi At the same reach 4 k	nal tensile resident te	iual stresses b www.se residua t. hast 2 form	y 1.5-2 kg/mm <sup>2</sup> , wi 1 stresses change ulas.	thout changing the inte compressive or	sign.
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<u>1.01011-56</u> ENT(m)/EFP(c)/ENP(j)/T DJ/HH	
ACCESSION NRI AP5019983 4.55 AUTHORI Anosov, V. I.; Dintsos, A. I.; Mar	
Ye. M.; Fopova, L. A.; Savostin, A. P.; Che 455 TITLE: Bavelopment of a continuous process molecular weights of 10,000 and 20,000	modanova, Ye. S.
SOURCE: Khimiya i tekhnologiya topliv i ma TOPIC TAGS: isobutylene, polymerization, l	$\boldsymbol{\mathcal{B}}_{4}$
ABSTRACT: The objective of the study was t duction of polyisobutylene with molecular w tive P-10) and 20,000 (commercial oil addit manufacturing automotive, aviation, and soc butylene is polymerized in an inert solvent AlCl; (in ethyl or methyl chloride) as a ca scale polymerization unit is shown in fig. of the reactor	eights of 10,000 (connercial oil addi- ive P-20). These additives are used in a special purpose <u>Mibricating oils</u> is a (isobutane, pentane, and others) using talyst. Flow-sheet of the industrial 1 of the Enclosure. The linear velocity
Card 1/3	

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conditions are: 0,1- the feedstock and 9 ( butylene in the feeds spect to molecular we operating isobutylene art. has: 4 figures	-0.15 wt. % of to 10°C below stock and 20°C sight, more ho s polymerizati , 4 tables.	F AlCl3 based on iso zero in the case of below zero in the mogenous product is lon reactor than from	The optimum polymerization butylane, 35% isobutylene in P-10 additive, and 25% iso- case of P-20 additive. In re obtained from the continuous a batch-type reactor. Orig	ly
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ACC NR AP7002728(A,N) SOURCE CODE: UR/0065/67/000/001/0045/0048 AUTHOR: Fialko, M. M.; Nikonorov, Ye. M. ORG: VNII NP TITLE: Effect of additives on thermal-oxidative stability of dibutylphenylphosphate SOURCE: Khimiya i tekhnologiya topliv i masel, no. 1, 1967, 45-48 TOPIC TAGS: antioxidant additive, corrosion inhibitor, soccosion, amine, alkylphenol, hydraulic fluid, . ibutylphenyl phosphate, phenyl cospound, phosphate, thermal oxidation, aircraft engine ABSTRACT: The effect of certain antioxidant and other additives on the thermaloxidative stability and corrosiveness of dibutyl phenyl phosphate had been investigated with regard to the latter's use as a base for fireproof aircraft hydraulic fluid. The sample investigated contained about 15% tributylphosphate; the acid number of the liquid was 0. 1. Aromatic amines and alkylphenoles were used as oxidation inhibitors. The former reduced the acidity of dibutylphenyl phosphate four to five times. In the presence of copper, however, the inhibitive properties of these antioxidants were completely reversed and the corrosiveness Cord 1/2 UDC: 665. 521. 5:546. 185

of dibutylph	2728 2011 phosphat	e increased.	Xanth	genates wit	hout disulf	ide groups	
on the other	hand were a	e increased. hown to reduc tective sulfid se of xanthog	e corro e film o	n the copper	surface.	In turn,	
Orig. art. i	us: 2 figures	and 3 tables.	• •			[KP]	
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AUTHORS :	Kurdyumov, G. V., Member of the Academy, 20-114-4-25/65 Maksimove, O. P., Mikonorove, A. I.	
TITLE:	The Activating Influence of Plastic Deformation on Martensite Transformation (Ob aktivisirugushchem vliganii plasticheskoy deformateii na martensitnoge prevrashcheniye)	
. PERIODICAL:	Doklady Akademii Hauk SSSR, 1957, Vol. 114, Nr 4, pp. 768-771 (USSR)	
ABSTRACT : Card 1/3	The present paper is intended, among other things to confirm the opinions on the influence exercised by stresses on the activation of the transformation. The authors investigated the rules of the restoration of the original stability of austenite on the occasion of annealing at gradually increasing temperature. The change of the stability of the austenite resulting from a plastic deformation or from the following annealing was judged by the strength of the magnetometric effects in the temperature domain below room temperature on the occasion of the transformation of austenite into martensite. It was assumed that the activating influence exercised by the deformation can easily be determined in such alloys which possess sufficiently marked elastic properties. The authors	

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The Activating Influence of Plastic Deformation on Martensite 20 114-4-25/63

therefore selected iron-chromium-nickel alloys for the investigations. The composition of the alloys used is given. In the case of both alloys the resistance of the austenite changes inhomogeneously with an increasing degree of deformation. The following was observed at increasing pressure: At first an increase of the intensity of martensite transformation compared to the non-deformed state took place, then the activating influence exercised by deformation became weaker and above a certain pressure the martensite transformation was slowed down. Such a character of the modification of the resistance was observed at 20°, 100°, and 175°C. A deformation of 5% increases the martensite point as well as the amount of martensite considerably. After a deformation by 7.4% the total amount of martensite increases to 20%, and with a further deformation the transformation effects become weaker. After a deformation of 14,7% the effects are already weaker than in the initial state. When annealing at temperatures of up to 4000 the resistance of the deformed austenite increases but when annualing beyond 400° the resistance decreases. The activation influence exercised by the deformation seems to be subjected to the occurrence of

Card 2/3

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SOV/137-58-8-17575

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 8, p 210 (USSR)

AUTHORS: Kurdyumov, G. V., Maksimova, O.P., Nikonorova, A.I. Pavlenko, Z.D., Yampol'skiy, A.M.

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- TITLE: The Effect of Preliminary Plastic Deformation on Marteusite Transformation in Fe Gr Ni Alloys (Vliyaniye predvaritel'noy plasticheskoy deformatsii na martensitnoye prevrashcheniye v splavakh Fe Gr-Ni)
- PERIODICAL: Sb. tr. In-t metalloved, i fiz. metallo: Tsentr. n. i. in-ta chernoy metallurgii, 1958, Vol.5, pp.41-55
- ABSTRACT: Investigations were performed in order to evaluate the effect of plastic deformation (PD) and subsequent heating on processes of martensite transformation (MT) during cooling, and on isothermal MT in an alloy composed of Kh18N8 (0.03% C, 18,10% Cr, and 8 1% Ni) and Kh17N9 (0.05% C. 17.25% Cr, and 9,16% Ni). The PD was effected by compression of specimens in a press at room temperature, as well as at temperatures of 100 and 175°C. Changes in the ability of austenite (A) to undergo transformations were evaluated by means of a thermomagnetic method involving plotting of martensite cooling curves during

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The Effect of Preliminary Plastic Deformation (cont.)

cooling of the material to  $-196^{\circ}$  followed by heating to a temperature of 20° at a rate of  $10^{\circ}$ /min. The summary transformation effect obtained as a result of the cooling and heating processes was taken as a criterion of stability of A. After deformation and annealing, the crystalline substructure of the A was characterized by the width of X-ray interference lines that, depending on the conditions of PD and annealing procedures the PD may A small degree of PD exhave an activating or a retarding effect on the MT tends the temperature range of the MT increases the initial rate of isothermal transformation, and increases the over all quantity of martensite. As the degree of PD and the temperature at which it is accomplished are increased, the PD begins to exert a retarding influence on the ability of A to undergo MT. Annealing of metal in the temperature range between  $100^{\circ}$  and  $400^{\circ}$  eliminates the activating effect of a preceding PD without destroying its retarding effect. At PD of a high degree, annealing at temperatures of 100 400° results in an additional improvement of the stability of A. The activation of the MT is affected by stresses which arise during PD; these stresses are restricted to small volumes and are different from stresses of type I, which are determined by the blurring of the interference lines. The retarding action of PD is affected by the breaking up of the zones of coherent dispersion of X-rays, an effect which hampers the formation of martensite nuclei. The activating and retarding Card 2/3

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