GRECHKIU, T. T.

USSk/Chemistry - Phosphoric Acid Chemistry - Synthesis Aug 1947

"Synthesis of Diphosphondialkyl Esters," B. A. Arbuzov, Corr Mem Acad Sci USSR; N. F. Grechkin, Chem Inst, Kazan Br, Acad Sci USSR, 3 pp

"Dok Akad Nauk SSSR, Nova Ser" Vol LVII, No 4

Gives that collected during studies on synthesis of diphosphondialkyl esters, and, in particular, triphosphonalkyl esters usually found in compounds such as R2Sn Hal2 or RSnHal3 with complete phosphoric acid esters. Submitted, 14 May 1947:

FA 53T18

Organophosphorus-tin compounds. III. Synthesis of compounds with phenyl radicals at the phosphorus stem. B. A. Albutov and N. P. Grechkin (Chem. Inst., Kazan Div. Acad. Sci. U.S.S.R.) Zhao, Obrhabel Khim. (J. Gen. Chem.) 20, 107-15(1050), cf. C. J. 42, 4322a. —PhP(OMe), (2.8 g.) and 4.7 g. MgSall warmed to 807 tracted violently (max. temp. 240°) and yielded 3.4 g. PhP(O(Me), (1000), (100

GRECHKIN, N.P.

CA

stable to hot H₂O, but rapidly cleave in 15% HCl, victing R₂SuCl₁, while 10% NatOH yields R₂SuO, Cl in CHCl, also yields R₂SuCl₁ at room temp. Heating PhPCl₁ Shits, in a seaded into to doty gave 30% Ph₂PCl thre with McOH in the presence of Mc₂NPh gave 50% Ph₂POH₂ b₁₀ 161-3% Heating 7 g. Rifsol and 40 g. Ph₁POR₂ b₁₀ 161-3% Heating 7 g. Rifsol and 40 g. Ph₁POR₂ b₁₀ 161-3% Heating 7 g. Rifsol and 40 g. Ph₂POR₂ b₁₀ 161-3% Heating 7 g. Rifsol and 40 g. Ph₂POR₂ b₁₀ 161-3% Heating 8 gave 1.4 g. Ph₂EPO, in, 121-4% Likewise, 5.1 g. MesSul and 4 g. Ph₂POR gave 9.8% Ph₂PCO washings gave 1.4 g. Ph₂EPO g. in, 121-4% Likewise, 5.1 g. MesSul and 4 g. Ph₂POMe to 180 gave Ph₃McPO, in, 108-10% and 4.2 g. (91.5%) E₃Sul. MesSul₃ (6 g.) and 6.9 g. Ph₂POR heated to 140% gave 2.2 g. MesSul₃ (6 g.) and 6.9 g. Ph₂POR heated to 140% gave 17.3% RepSul₃ (6 g.) decomp. 331-3% and Ph₂RiftO, while 5.0 g. Rifsol₄ and 6 g. Ph₂POR gave 17.3% RepSul₃ (10) Ph₂POH₃ decomp. 331-3% and Ph₂RiftO. These derives are stable to hot 11₁O, while warm 15% HCl yields Ph₂POH₄II, decomp. 331-3% and Ph₂RiftO. These derives are stable to hot 11₁O, while warm 15% HCl yields Ph₂POH₄II, decomp. 374-374 and R₂SuCl₄ and hot 20% NaOH similarly gives Ph₂POH and R₂SuCl₄ and hot 20% NaOH similarly gives Ph₂POH and R₃SuCl₄ and realmont with water gives Ph₂POH₄II; the action of AcCl in refluxing C₄H₄ is similarly gives Ph₂POH₄ and Ph₂POH₄ III the soluted.

232T34

USSR/Chemistry - Cancerogenic Compounds

"Synthesis of 3,4-Benzopyrene and 3,4,6,7-Dibenzopyrene Derivatives Through Phenalone-9 and Benzanthrone," B. A. Arbuzov, N. P. Grechkin, Chem Inst imeni A. Ye. Arbuzov, Kazan' Affiliate, Acad Sci USSR

Sep 52

prepd for the 1st time: 3-methy1-3,4,6,7-dibenzo-pyrene, 1',3'-dimethy1-3,4,6,7-dibenzopyrene, 2'1so-propy1-3,4,6,7-dibenzopyrene, 3'-methy1-4',5-ethy-lene-3,4,6,7-dibenzopyrene, and 3,4,6,7-tribenzopyrene. In an analogous manner 3,4-benzopyrene and 3,4,6,7-Dibenzopyrene and 1',2',3,4-naphtho-6,7phenalone-9 through 1-substituted phenalones. The high cancerogenic activity of 3,4,6,7-dibenzopyrene rolysis of the latter yielded derivs of 3,4,6,7-di-3,4,6,7-dibenzopyrene. By treating benzanthrone benzopyrene both possess strong blastomogenic acrene. In an analogous secure of the starting with 1',2',3,4-naphthopyrene were prepared by starting with ing 4-substituted benzanthrones were prepared. Pywith organomagnesium compds contg methyl or methytion; this prompted the synthesis of derivs of and the lack of activity in 2',3'-naphtho-3,4benzopyrene. lene groups in the ortho position, the correspond-"Zhur Obshch Khim" Vol 22, No 9, pp 1692-1700 men concerning the connection between cancerogenic pyrene do not agree with the statement of A. Pull-In this manner, the following were

APPROVED FOR RELEASE: Thursday, July 27, 2000

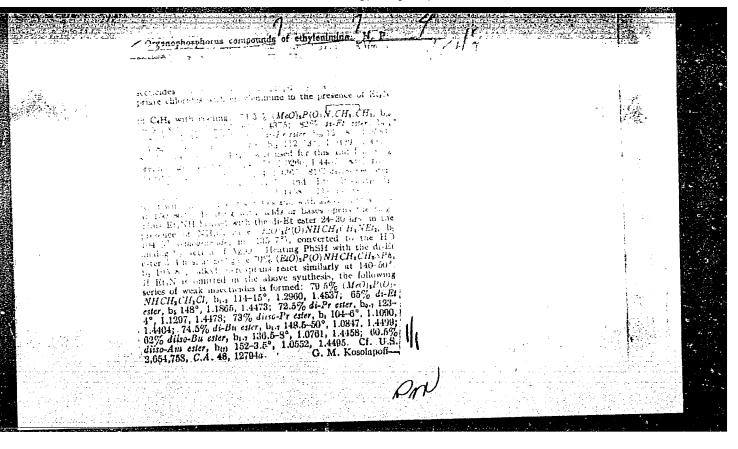
activity and the presence of a specific "K" field

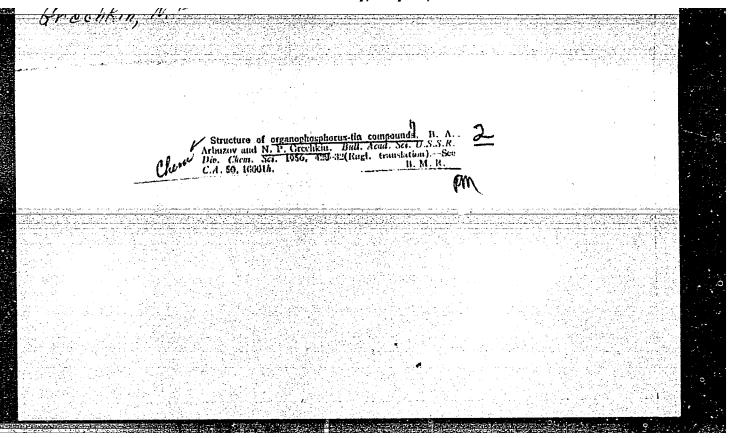
in the mol of the cancerogenic substance which possesses an increased density of Pi electrons.

(Ez. Ezbb:bioulh 42)

CIA-RDP86-00513R000516620

232T34





USSR/Organic Chemistry - Synthetic Organic Chemistry, E-2

Abst Journal: Referat Zhur - Khimiya, No 1, 1957, 956

Abstract: heated to 210° with one mole (C₂H₅)₂SnCl₂, /(C₆H₅)₂P(0)0/₂Sn(C₂H₅)₂ (IX) is obtained (mp 346-349°) together with (C₆H₅)₃PO. The formation of IX is apparently related to an intramolecular oxidation reaction of VIII this content of VIII this content is a second or content of VIII this content is a second or content of VIIII this content is a second or content or conten tion of VIII; this, however, is unestablished. The hydrolysis of IX

yields (C6H5)2POH; the reaction is quantitative.

Card 2/2

GRECHKIN, N.P.

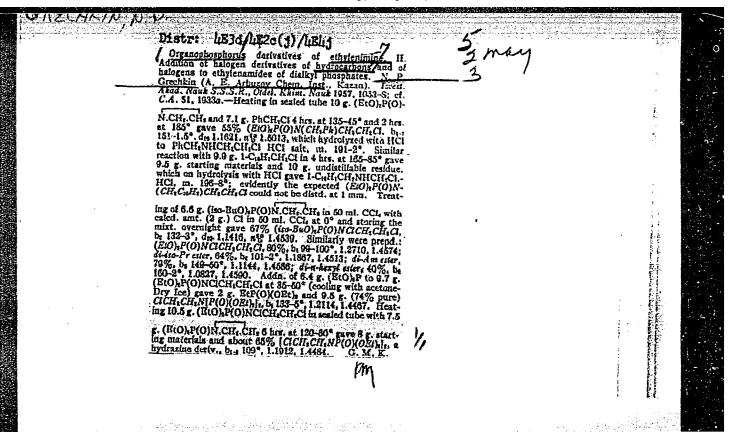
Phosphororganic ethylenimine derivatives. Report no.1. Interaction of ethylenimine with dialkylphosphoryl chlorides. Izv.AN SSSR.Otd.khim.nauk no.5:538-543 My 156. (MLRA 9:9)

1. Khimicheskiy institut imeni A. Ye. Arbuzova Kasanskogo filiala AN SSSR. (Phosphoryl chloride) (Ethylenimine)

GRECHKIN, N. P. (Chem. Inst. im. Acad. A. Ye. Arbuzov, Kazan Aff. AS USSR)

"Phosphororganic Derivatives of Ethylenimine" (Fosferorganicheskiye proizvodnyye etilenimina)

Chemistry and Uses of Organophosphorous Compounds (Khimiya i primeneniye fosfororganicheskikh soyedneniy), Trudy of First Conference, 8-10 December 1955, Kazan, pp. Published by Kazan Affil. AS USSR, 1957
243-247



GRECHLIN, N.P.

5.3630 5.383) S/020/60/133/03/08/013 B016/B068 82274

AUTHOR:

Grechkin, N. P.

TITLE:

Copolymerization of the Diethyleneamides of Phosphorus

Acids With Bifunctional Organic Compounds

PERIODICAL:

Doklady Akademii nauk SSSR, 1960, Vol. 133, No. 3,

pp. 592 - 593

TEXT: In the introduction, the author refers to the N-phosphonium aminoethylation of organic compounds described by him in an earlier publication (Refs. 1-3). It was recently shown that the amides mentioned in the title react according to the mentioned reaction involving a cleavage of the two ethyleneimine rings. This induced the author to assume that the reaction mentioned in the title could lead to the formation of linear copolymers with phosphorus atoms in the chain (see Scheme). The author deduced the alternate succession of the atoms from the reaction of the monomer which had been studied earlier. The experiments of the author showed that the amides in question can actually be copolymerized with dicarboxylic acids, diamines, p-dichloromethyl aryls,

Card 1/3

Copolymerization of the Diethyleneamides of S/020/60/133/03/08/013 Phosphorus Acids With Bifunctional Organic B016/B068 82274 Compounds

and other bifunctional compounds. When equimolar amounts of diethyleneamide of isopropyl thiophosphoric acid and sebacic acid are heated to 110 - 120°C, an exothermic reaction takes place which leads to the formation of a rubber-like substance with a high elasticity coefficient. In the course of a similar reaction, a solid transparent polymer having the color of strong tea is formed by copolymerization of the diethyleneamide of ethylphosphoric acid with benzidine (in molar ratios) and heating up to 125 - 130°C. This polymer (which was studied by means of a device designed by B. Ya. Teytel'baum and M. P. Dianov) showed a state of high elasticity between 150 and 220°C (Fig. 1). In the viscous state, filaments can be drawn from this polymer. Further experiments were carried out by the author which lead to the formation of polymer substances which are being studied at present. The capacity of the diethyleneamides of the phosphorus acids to add to the functional groups of organic compounds can be utilized to prepare grafted and crosslinked phosphoruscontaining polymers. They can be used to obtain crosslinking of: 1) polyamide chains independently of the character of their end groups, and 2) polyester chains with carboxyles as end groups. In a similar way,

Card 2/3

Copolymerization of the Diethyleneamides of . Phosphorus Acids With Bifunctional Organic Compounds

S/020/60/133/03/08/013 B016/B068 82274

the monoethyleneamides of phosphorus acids can be used for grafting phosphonium groups to active end and side groups of polymer molecules, as was shown by relative experiments. Thus, a new method for the preparation of phosphorus-containing polymers by N-phosphonium aminoethylation was suggested by the author. There are 1 figure and 4 Soviet references.

ASSOCIATION: Khimicheskiy institut Kazanskogo filiala Akademii nauk SSSR

(Chemical Institute of the Kazan! Branch of the Academy of

Sciences, USSR)

PRESENTED: March 7, 1960, by A. Ye. Arbuzov, Academician

4

SUBMITTED: March 4, 1960

Card 3/3

87165

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2209, 1236, 1273

3/062/60/000/012/004/020

B013/B055

AUTHORS:

Grechkin, N. P. and Shagidullin, R. R.

TITLE:

Organophosphorus Compounds of Ethylenimine Derivatives. Communication III. Addition of Acids to the Amides of

Phosphinic Acids With Ethylenimine

PERIODICAL:

Izvestiya Akademii nauk SSSR. Otdeleniye khimicheskikh nauk,

1960, No. 12, pp. 2135-2139

TEXT: The present publication gives the results obtained in the N-diethylphosphonaminoethylation (the term used by the authors) of carboxylic acids. The authors apply this term to all reactions in which the amides of phosphinic acids with ethylenimine add to a number of compounds under cleavage of the ethylenimine ring, as shown in Refs. 1 and 2. By this reaction, addition products of diethyl phosphinic acid ethyleneamide and several carboxylic acids were obtained (Table). All the esters listed in the table were prepared similarly: equimolar amounts of diethyl phosphinic acid ethyleneamide and the acid were heated at 110-120°C in sealed tubes for 6-7 h. After distilling twice, the pure product separated. To establish the structure of the

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87165

Organophosphorus Compounds of Ethylenimine Derivatives. Communication III. Addition of Acids to the Amides of Phosphinic Acids With Ethylenimine s/062/60/000/012/004/020 B013/B055

compounds obtained, the authors evaluated the infrared absorption spectra of the reaction products of diethylphosphinic acid ethyleneamide and acetic-respectively propionic acid. Diethyl phosphinic acid ethyl amide was used as model substance. The spectra were run on a NKC-12 (IKS-12) spectrometer with adjustable slit width using a NaCl prism in the 700-2400 cm⁻¹ region and a LiF prism in the 2300-3600 cm⁻¹ region. The spectra of the three above-mentioned compounds in the 2300-3600 cm⁻¹ region are shown in Fig. 1: 1) $({}^{\rm C}_2{}^{\rm H}_5{}^{\rm O})_2{}^{\rm PNH-CH}_2{}^{\rm -CH}_2{}^{\rm OCOCH}_3$ or

87165

Organophosphorus Compounds of Ethylenimine Derivatives. Communication III. Addition of Acids to the Amides of Phosphinic Acids With Ethylenimine

S/062/60/000/012/004/020 B013/B055

The infrared spectra indicate the presence of intermolecular hydrogen bonds between the nitrogen of the amide group and the oxygen atoms of the phosphone group (P=0) and the ether group (C=0). The structure of the substance obtained by the action of diethyl phosphonic acid on diethyl phosphinic acid ethylene amide is still unclear. The study is being continued. There are 1 figure, 1 table, and 6 references: 3 Soviet and 3 US.

ASSOCIATION:

Khimicheskiy institut Kazanskogo filiala AN SSSR

(Chemical Institute of the Kazan' Branch of the AS USSR)

SUBMITTED:

June 19, 1959

Card 3/3

SHAGIDULLIN, R.R., GRECHKIN, N.P.

"Oscillatory spectra of certain diethyleneamides of alkythiophosphoric acids."

Khimiya i Primeneniye Rosfororganichenkikh Soyedineniy (Chemistry and application of organophosphorus commounts) A. YE. 3.24.201, Ed. Fubl. by Kazan Affil. Acad. Soi. USSR, Moscow 1962, 192, 190.

Collection of complete oppers presented at the 1969 Kazan Ponfarence of Chamistry of Organophosphorus Compounds.

5/058/63/000/001/056/120 A160/A101

AUTHORS:

Shagidullin, R. R., Grechkin, N. P.

TITLE:

Vibrational spectra of some diethylene amides of

dikylthiophosphoric acids

PERIODICAL: Referativnyy zhurnal, Fizika, no. 1, 1963, 23, abstract 10156 (In collection: "Khimiya 1 primenehiye fosfororgan, acycdineniy",

M., AN SSSR, 1962, 112 - 115)

The infrared absorption spectra and the Raman spectra of a number of TEXT: new diethlene amides of alkylthiophosphoric acids were investigated: It is shown that the pulsation vibrations of the ethylenimine ring in the presence of phosphorus appear to be adequately characteristic by their frequency and intensity, and that the corresponding lines and bands, which clearly appear in the infrared spectra, may serve as a good analytic indication. In the region of 3060 cm-1, vibrations of the C - N honds at the ring are manifested. A strong infrared absorption was observed in the region of 930 cm-1. It is identified with an asym-

Card 1/2

Vibrational spectra of ...
metric vibration of the ring N

8/058/63/000/001/0**56/129** Al60/Al01

Yu. Mazurenko

[Abstracter's note: Complete translation]

Card 2/2

GRECHKIN, N.P.; NURETDINOV, I.A.

Reactions of ethyleneamides of phosphorus acids with some unsaturated acids and allylamine. Izv. AN SSSR Otd.khim. nauk no.2:295-298 F 162. (MIRA 15:2)

1. Khimicheskiy institut im. A.Ye.Arbuzova Kazanskogo filiala AN SSSR i Institut organicheskoy khimii AN SSSR, Kazan². (Phosphoric acid) (Unsaturated compounds)

GRECHKIN, N.P.

Organophosphorus derivatives of azetidine. Izv.AN SSSR.Otd.khim. nauk no.8:1495 Ag 162. (NIRA 15:8)

1. Khimicheskiy institut im. A.Ye.Arbuzova AN SSSR. (Phosphorus organic compounds) (Azetidine)

GRECHKIN N.P.; GRISHINA, L.N.

Ethylene amides of glycolphesphorous acids. Dokl. AN SSSR 146 no.6:1333-1334 0 162. (MIRA 15:10 (MIRA 15:10)

1. Khimicheskiy institut im. A.Ye. Arbuzova AN SSSR. Predstavleno akademikom A.Ye.Arbuzovym. (Phosphorous acid) (Rearrangements (Chemistry))

GRECHKIN, N.P.; NURETDINOV, I.A.

Organophosphoric derivatives of ethyleneimine. Report No.5: Mono- and polyfunctional monomers. Izv.AN SSSR.Otd.khim.nauk no.2:302-306 F '63. (MIRA 16:4)

1. Khimicheskiy institut im. A.Ye.Arbuzova i Institut organicheskoy khimii AN SSSR, Kazan'.

(Ethylene compounds)
(Phosphorus organic compounds)

NURETDINOV, I.A., GRECHKIN, N.P.

Synthesis of some triamides of phosphorus acids. Izv. AN SSSR. Ser. khim. no.10:1883-1885 0 '64. (MIRA 17:1 (MIRA 17:12)

1. Institut organicheskoy khimii AN SSSR, Kazan'.

GRECHKIN, N.P.; GRISHINA, L.N.

Properties of othylenamides of glycolphosphorous acids. Jzv. AN SSSR Ser. khim. no.8:1502-1504 '65. (MIRA 18:9)

1. Khimicheskiy institut im. A.Ye. Arbuzova AN SSSR.

CIA-RDP86-00513R00051662

GRECHKIN, N.P.; SHAGIDULLIN, R.R.; GRISHINA, L.N.

Structure of the product of reaction between phosphite and ethanolamine. Dokl. AN SSSR 161 no.1:115-117 Mr 165.

(MIRA 18:3)

1. Khimicheskiy institut im. A.Ye. Arbuzova AN SSSR, Kazan'. Submitted July 31, 1964.

GRECOKIN, N.P.; MODOTDINOV, 1.4.

Ethylenimides of alkyl- and dialkylphosphorous acids. 12v. AN SSSR. Ser. khim. no.6:1105-1100 165.

(MILA 18:6)

1. Institut organicheskoy khimii AN SSSR, Envan' i Ehimicheskiy institut imeni Arbuzova AN SSSR.

GRECHKIN, N.P.; KHAMITOV, R.N.

Organophosphorus derivatives of azetidine. Phosphoric acid azetidides. Dokl. AN SSSR 162 no.5:1063-1064 Je '65. (MIRA 18:7)

1. Khimicheskiy institut im. A.Ye. Arbuzova AN SSSR. Submitted December 7, 1964.

L 26567-66 EWT(m)/EWP(1) ACC NR AP6017365 SOURCE CODE: UR/0062/65/000/008/1502/1504 AUTHOR: Grechkin, N. P.; Grishina, L. N. ORG: Chemical Institute im. A. Ye. Arbuzov, AN SSSR (Khimicheskiy institut AN SSSR) TITLE: Properties of ethyleneamides of glycolphosphorous acids SOURCE: AN SSSR. Izvestiya. Seriya khimicheskaya, no. 8, 1965, 1502-1504 TOPIC TAGS: organic amide, organic phosphorus compound, organic imine compound, acetic acid ABSTRACT: The reactions of glycolphosphorous acids with organic compounds possessing a labile hydrogen atom were studied. In an attempt to open the ethyleneimine ring in the amides of certain glycolphosphorous acids with various amines, in all cases a transamination reaction: liberation of free ethyleneimine and formation of a new amide of glycolphosphorous acid - was observed, indicating extremely low strength of the nitrogen-phosphorus bond. The yields of the new amides produced in transamination are low, evidently as a result of simultaneous ammonolysis of the aliphatic bonds. When the ethyleneamides of glycolphosphorous acids are treated with acetic acid, they are deaminated, forming the ethylene amide of acetic acid and the free ethylene glycolphosphorous acide, the latter in rather high yields (60-70%). Orig. art. has: 2 tables. [JPRS] SUB CODE: 07 / SUBM DATE: 18Dec64 / ORIG REF: 004 / OTH REF: 001 UDC: 542.91+661.718.1

L 06529-67 EWT(m) EWP(j) RM UR/0062/66/000/003/0839/0843 ACC NR: AP7000466 SOURCE CODE: NURETDINOV, I. A., SHAGIDULLIN, R. R., SHAMONIN, Yu. Ya., GRECHKIN, N. P., Institute of Organic Chemistry, Academy of Sciences USBR, Kazan' (Institut orgunioneskoy knimii AN SSSR) "Amides of Phenylvinylphosphinic Acid" Moscow, Izvestiya Akademii Nauk SSSR, Seriya Khimicheskaya, No 5, 1966, pp 839-843 Abstract: Amides of phenylvinylphosphinic acid were produced by reaction of the acid with the amine. The ethyleneimide of phenyl-beta-chloroethylphosphinic acid was produced by reaction of phenyl-beta-chloroethylphosphinic acid chloride with ethyleneimine in the presence of triethylamine as a hydrogen chloride acceptor, in an unsuccessful attempt to produce the ethyleneimide of phenylbeta-ethyleneiminoethylphosphinic acid. The infrared spectra of the substances obtained were studied. The presence of ppi-dpi conjugation in the systems considered was hypothesized on the basis of the frequencies of the P=O and C=C groups. The rate of inversion of nitrogen in ethyleneimides of phenylvinylphosphinic and phenyl-beta-chloroethylphosphinic acids is very high according to the proton magnetic resonance data. Orig. art. has: 2 figures and 2 tables. TOPIC TAGS: organic amide, vinyl compound, phosphinic acid SUB CODE: 07./ SUBM DATE: 28 Dec 63 / ORIG REF: 004 / OTH REF: 003 Card 1/1 egh UDC: 543.422:542.951.1:661.718.1

ACC NR: AP7010722

SOURCE CODE: UR/0062/66/000/008/1466/1467

AUTHOR: Nuretdinov, I. A.; Grechkin, N. P.

ORG: Institute of Organic and Physical Chemistry, Academy of Sciences

USSR (Institut organicheskoy i fizicheskoy khimii AN SSSR)

TITLE: Interaction of monoethylenimides of acids of pentavalent phosphorus with thioacetic acid

SOURCE: AN SSSR. Izvestiya. Seriya khimicheskaya, no. 8, 1966, 1466-1467

TOPIC TAGS: IR speatrum, organia phosphorus compound, nonmatallie organic compound

SUB CODE: 07:

ADSTINCT: N-phosphorylated S-acetylmercaptoethylamines were prepared by reaction of monoethylenimides of acids of pentavalent phosphorus with thioacetic acid. The reaction proceeded readily without a catalyst, upon heating on a boiling water bath; sufficiently pure products were obtained in good yields, generally 75% or above. Seven new derivatives were prepared and characterized. Their structures were confirmed by their infrared spectra. Orig. art. has: 1 formula and 1 table.

/JPRS: 40,351/

Card 1/1

UDC: 542.951.1 + 546.185 + 547.299

-2948

ACC NR: AP7011831

SOURCE CODE: UR/0079/66/036/010/1862/1862

AUTHOR: Grechkin, N. P. Khamitov, R. N.

ORG: none

TITLE: New method of producing azetidides of dialkylphosphoric acids

SOURCE: Zhurnal obshchey khimii, v. 36, no. 10, 1966, 1862

TOPIC TAGS: chemistry technique, phosphoric acid, azetitide

SUB CODE: 07

ABSTRACT: Azetidine reacts readily with dialkylphosphites and carbon tetrachloride, to form azetidides of dialkylphosphoric acids. Azetidides of diethylphosphoric, di-n-propylphosphoric, and di-n-butylphosphoric acids were prepared in 77 to 85% yields by conducting the reaction in ether solution at temperatures from -5° to /5°. Their properties were identical with those prepared from the acid chlorides and by transamidation. The method is said to be convenient and gives high yields.

Card 1/1

UDC: 547.26:118 0932 0437

YURLOV, N.M., ZABOROVSKIY, T.P., FILIPOVICH, P.I., GRECHKIN, N.S.

Rapid execution of development workings at the No. 1/2 mine of the Sakhallnugol' combine. Ugol' 40 no.8:20-22 Ag '65. (MIRA 18:8)

GRECHKIN, N.Z. (Yeniseysk).

Problems from thepages of the Pelish journal "Matematika" on methods of teaching algebra. Mat. v shkele no.6:78-82 N-D '58.

(MTRA 11:12)

(Peland-Algebra-Study and teaching)

Study of elementary accounting in schools of the Polish People's Republic. Mat. v shkole no.2:74-76 Mr-Ap '59.

(Poland-Accounting-Study and teaching)

YELEN'SKA, Lyudvika [Jelenska, Ludwika]. Prinimal uchastiye RUSETSKIY, A.M.; GRECHKIN, N.Z. [translator]; MOLCHANOV, M.P., red.; MAKHOVA, N.N., tekhn.red.

[Methodology of the teaching of arithmetic and geometry in elementary schools; teachers manual] Metodika arifmetiki i geometrii v pervye gody obucheniia; posobie dlia uchitelei nachal'noi shkoly. Moskva, Gos.uchebno-pedagog.izd-vo M-va prosv.RSFSR, 1960. 175 p. Translated from the Polish. (MIRA 13:11)

(Mathematics -- Study and teaching)

- 1. GRECHKIN, P.S.
- 2. USSR (600)
- 4. Conveying Machinery
- 7. Hand truck for the apiary, Pchelovodstvo 30 no. 3, 1953.

9. Monthly List of Russian Accessions, Library of Congress, APRIL 1953, Uncl.

s/0046/63/009/003/0379/0381

ACCESSION NR: AP3005630

AUTHORS: Grechkin, V. I.; Hozdrev, V. F.

TITLE: Ultrasound velocity in the critical region of the ternary system benzene-methanol-toluene

SOURCE: Akusticheskiy zhurnal, v. 9, no. 3, 1963, 379-381

TOPIC TAGS: ternary system, benzene-methanol-toluene system, benzene, methanol, toluene, ultrasound, acoustics, ultrasound velocity, ternary systems acoustics, critical region

ABSTRACT: The velocity of ultrasound propagation in ternary liquids was studied in order to provide data missing in the literature. The liquids used in this investigation consisted of the previously studied binary benzene-methanol mixtures (V. F. Nozdrev, G. D. Tarantova. Skorost' zvuka v sisteme benzol-metilovy*y spirt v kriticheskoy oblasti. Akust. zh., 1961, 7, h, 496-497) diluted with various amounts of toluene. The velocity of the ultrasonic wave propagation was determined optically. Abstracter's note: hereafter the determinations are referred to by the authors as "acoustic." In the critical range the behavior of the mixtures was

Card 1/4

ACCESSION NR: AP3005630

found to be analogous to the behavior of their separate components. Throughout the entire range of temperatures tested the ultrasound propagation velocities in the liquid phase exceeded the velocities in the saturated vapors. In both media the velocities decreased sharply near the critical point and increased rapidly beyond this point. The minimal velocities at the critical points were measured with a fair degree of accuracy. Using the data on the densities of the ternary mixture and on the ultrasound propagation velocities, the authors have calculated the coefficients of adiabatic compressibility for some of these mixtures. Figure 1 of the Enclosure shows the relation of these coefficients (β_s) to the temperatures and the compositions. The coefficients β_8 for the ternary mixtures were found to exceed those for the separate components and for the binary mixtures. The acoustical method of investigation provided other data useful in practical and theoretical studies dealing with the physicochemical properties of complex mixtures. As an example, the authors present a table showing critical temperatures and pressures for all the mixtures investigated in this work. Orig. art. has: 2 graphs and 1 table.

ASSOCIATION: Moskovskiy oblastnoy pedagogicheskiy institut im. N. K. Krupskoy (Moscow District Teachers Institute)
Card 2/4

ACCESSION NR: AP3005630

SUBMITTED: 08Apr63

DATE AQ: 27Aug63

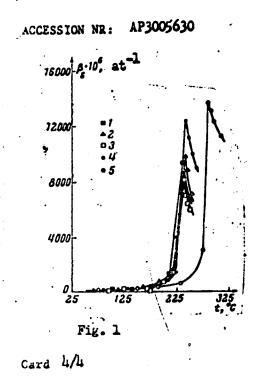
ENCL: CL

SUB CODE: PH

NO REF SOV: 003

OTHER: 000

Card 3/4



ENCLOSURE: 01

Fig. 1. Relation of the coefficient of compressibility to the mixture temperature and composition. The curves correspond to: 1) 40% of C₆H₆ in CH₃OH; 2) 16.7% of C₆H₆ in CH₃OH; 3) CH₃OH; 4) 20% of C₇H₈ in the mixture containing 20% of C₆H₆ in CH₃OH; 5) 80% of C₇H₈ in the mixture containing 40% of C₆H₆ in CH₃OH.

NOZDREV, V.F.; GRECHKIN, V.I.

Determination of the critical curves of ternary mixtures by the ultra acoustic method. Zhur.fiz.khim. 38 no.11:2663-2664 N *64. (MIRA 18:2)

1. Moskovskiy oblastnoy pedagogicheskiy institut.

GRECHKIN, V. P.

20916 Grechkin, V. P. Uzkotelyye elatki, povrezhdayushehiye osinu, i mery bor'by s nimi. V sb: Issledovaniya po les. khoz-vu. M. - L., 1949, s. 251-64 - Bibliogr: 17 nazu.

SO: LETCPIS ZHURMAL STATEY - Vol. 28, Moskva, 1949

CRECHKIN, V.P., BUKHGEYM, A.N., nauchnyy red.; KOGAN, M.I., prof., vedushchiy

[Studies on the biology of forest pests] Ocherki po biologii vreditelei lesa. Moskva. Izd-vo Mosk. ob-va ispytatelei prirody, 1951. 149 p. (Materialy k poznaniu fauny i flory SSSR. Otdel zoologicheskii, no.31).

(Forest insects)

7	GRECHKIN.	. V.P.

- 2. USSR (600)
- 7. "Bacterial Canker of Poplars and the Part Played by Insects in its Spread", Lesnoye Khozyaystvo, No 6, 1951, pp 69-71.

9. Mikrobiologiya, Vol XXI, Issue 1, Moscow, Jan-Feb 1952, pp 121-132. Unclassified

USSR / General and Specialized Zoology. Insects.

Abs Jour: Ref Zhur-Biol., No 2, 1958, 6817.

Author : Grechkin, V. D.

: AS Tadzhik SSR.

: Cicades as Pests of Mountain Forest Cultures of Title

Central Asia.

Orig Pub: Dokl. AN TadzhSSR, 1956, No 18, 51-60.

Abstract: The emergence of the big white winged Cicade

(Paharia zevara) continues from May 20th up to July. The female make cuts up to 8mm in length in branches and small trunks 0.3-2 cm in width. The cuts are divided into two, situated one above another cavities in the wood; into each cavity the insects deposit 20-34 eggs. The larvae emerge in the middle of August, dig into the soil and

feed on the juice of roots, mostly brabushes.

Card 1/3

Abstract: General and Specialized Zoology. Insects.

Abstract: Generation takes place, possibly once, within more than 4-5 years. The wing-variegated cicades of the adatra querula) develop in the same way.

Males make cuts 5 mm in length on the sc of the adatra querula) on the thick peticles of the males make cuts, on the thick peticles of trees' leaves, on branches and small trounked into each trees' leaves, on branches and small the forest in the females deposit their eggs in the forest on special varieties of trees, The larvae cicades on special varieties of trees. The larvae cicades on the roots of herbaceous plants.

Indiscriminately on all trees. Theyears.

indiscriminately on all trees inhabit separate on the roots of herbaceous ration in 4 years.

Thousands of this cicade variety inhabit separate have not more this cicade variety inhabit separate of the white-winged there are only a few dozen. The damage of cicade there are only a few dozen.

Card 2/3

27

USSR / General and Specialized Zoology. Insects.

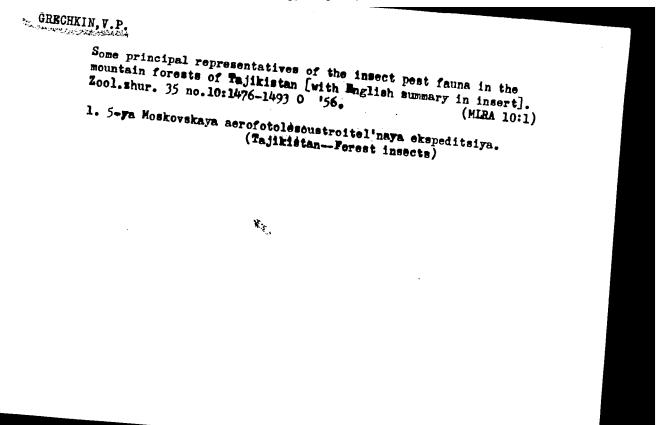
P

Abs Jour: Ref Zhur-Biol., No 2, 1958, 6817.

Abstract: the white winged cicade; branches and little

trunks become curved, sometime they become thicker, dry out and break. The cuts open, forming wounds 5-10 cm in length. The damage to plantings by both varieties of cicades consisted mostly in growth checking. The chief methods of controlling the cicades were agrotechnical. -- A. P. Adrianov.

Card 3/3



Larch spinner, a dangerous pest of conifer forests. Nauka i pered. op. v sel'khoz. 9 no.7:45-47 Jl '59. (MIRE 12:11)

DREMICHEV, I.D.; GRECHKIN, V.P.; KUROCHKIN, V.D., red.; SAVIN, B.V., red.-leksikograf; BUKOVSKAYA, N.A., tekhn.red.

[English-Russian dictionary of rocket weapons] Anglo-russkii slovar' po reaktivnomu oruzhiiu. Moskva, Voen.izd-vo M-va obor. SSSR, 1960. 383 p. (MIRA 13:12)

(Rockets (Ordnance)--Dictionaries)

(English language--Dictionaries--Russian)

GRECHKIN, V.P.

Siberian silkworm (Dendrolimus sibiricus Tschetw.) as a forest pest in Mongolia. Zool. shur. 39 no.1:84-96 Ja *60.
(MIRA 13:5)

1. 5th Moscow Air-Photo Forest Management Expedition.
(Mongolia--Moths) (Larch--Diseases and pests)

GRECHKIN, V. P. P. Anglo-Russkiy slovar' po reaktivnomu oruzhiyu. Sost. I.D. Dremichev (i) V.P. Grechkin. Moskva, Voyenizdat, 1960.

"Ukazatel' Russkikh terminov" p. 266-380.

383 p. tables.

ZHOKHOV, Pavel Ivanovich; GRECHKIN, Vladimir Pavlovich; KOLOMIYETS, Nikolay Grigor'yevich; VYSOTSKAYA, Aleksandra Vladimirovna; LOHSHCHAKOV, Sergey Stepanovich; VORONTSOV, A.I., red.; FUKS, Ye.A., red.izd-va; PARAKHINA, N.P., tekhn. red.

[Tent caterpillar, Dendrolimus sibericus, and measures for its control] Sibirskii shelkopriad i mery bor'by s nim. Pod obshchei red. N.G.Kolomiitsa i P.I.Zhokhova. Moskva, Goslesbumizdat, 1961. 139 p. (MIRA 15:4)

GRECHKIN, V.P.

Large bark beetle Ips subelongatus Motsch. Zool. zhur. 41 no.4:552-559 Ap '62. (MIRA 15:4)

1. Fifth Moscow Air-Photo-Forest Manageing Expedition.
(Bark beetles)

GRECHKIN, Vladimir Paylovich; VORONTSOV, Aleksey Ivacovich

[Pests and diseases of poplars and the measures for their control] Vrediteli i bolezni topolei i mery bor'by s nimi. Moskva, Goslesbumizdat, 1962. 148 p. (MIRA 19:1)

L 22656-65 EPF(c)/EPR/EPA(s)-2/EMP(j)/EMT(m)/T Pc-4/Pr-4/Ps-4/Pt-10
ACCESSION NR: AT5002136 NW/MLK 8/0000/64/000/000/0267/0272

AUTHOR: Kalabina, A. V.; Grechkin, Ye. F.; Bychkova, T. I.; Filippova, A. Kh.; Fryukavkina, N. A.; Yermakova, L. I.

TITLE: Synthesis of some new vinyl-aryl ethers and of their conversion products

SOURCE: AN SSSR. Institut neitekhimicheskogo sinteza. Sintez i svoystva monomerov (The synthesis and properties of monomers). Moscow, Izd-vo Nauka, 1964, 267-272

TOPIC TAGS: vinyl aryl ether, aromatic ether, phenol derivative, diphenylpropane derivative, diphenolpropane divinyl ether, polyether synthesis, boron trifluoride

ABSTRACT: Studies on the synthesis of vinylaryl ethers were expanded by the preparation of new ethers from substituted phenols and of their conversion products to obtain highly reactive and readily polymerizing compounds. The compounds reacted to prepare vinylaryl ethers included nitro-, chloro-, bromo-, chloronitro-, and ketophenols and p. p-dihydroxydiphenylpropane; the reaction products were purified by steam distillation or recrystallization. Polymerization was mainly studied with diphenolpropane divinyl ether. Its homopolymer, obtained at 5C with boron trifluoride, contains an insoluble fraction of crosslinked polymer; its copolymerization with large amounts of vinylphenyl ether improves the thermal stability of the product markedly as compared with vinyl-

Card 1/2

L 22656-65 ACCESSION NR: AT5003136

2

phenyl ether homopolymer. Routes for producing di- and trichloroethyl-, and B-chloro- and B, B-dichloro- vinyl-aryl ethers are established. The reactions of vinylaryl ethers with phosphorus pentachloride produce esters and acid chlorides of B-aryloxyvinyl-phosphonic and thiophosphonic acids. Polymerization of ethyl B-phenoxyvinylphosphonate gives a non-combustible polymer which does not melt at 350 C. Orig. art. has: 1 formula and 3 tables.

ASSOCIATION: None

SUBMITTED: 30Jul64

ENCL 00

SUB CODE: OC, GC.

NO REF SOV: 013

OTHER: 002

Card 2/2

"APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00051662

L 34101-65 TPA(s)-2/EWT(m)/EPF(c)/EPR/EWF 1/T Pc-4/Pr-4/Ps-4/Pt-10 WW/RM

ACCESSION NR: AP5007435 S/0286/65/000/004/0062/0062

AUTHOR: Grechkin, Ye. F.; Kalabina, A. V.

TITLE: Preparative method for heat-resistant phosphorus-containing polymers.

Class 39, No. 168445

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 4, 1965, 62

TOPIC TAGS: heat resistant polymer, polymer, phosphorus containing polymer, vinylphosphonic acid

ABSTRACT: An Author Certificate has been issued for a preparative method for heat-resistant phosphorus-containing polymers, involving the treatment of tetrachloro derivatives of β-substituted vinylphosphonic acids [sic] with proton donors at elevated temperature. In order to obtain modified polymers, water, acetic acid, or formic acid is used as the proton donor.

[SM]

ASSOCIATION: none

SUBMITTED: 20Apr63

ENCL: 00

SUB CODE: OC, GC,

NO REF SOV: 000

OTHER: 000

ATD PRESS: 3210

Card 1/1

GRECHKINA, A. K.

"Causes of Nontraumatic Death of Children." Dr Med Sci, Kiev Order of Labor Red Banner Medical Inst imeni Academician A. A. Bogomolets, Ministry of Health USSR, Kiev, 1954. (KL, No 5, Jan 55)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (12) SO: Sum. No. 556, 24 Jun 55

POLIKARPOCHKIN, V.V.; KOROTAYEVA, I.Ya.; GRECHKINA, Ye.A.; GAPONTSEV, G.P.

Relationship between the liquid and solid phases of stray flux.

Geokhimiia no.2:198-210 F 65. (MIRA 18:6)

1. Institut geokhimii Sibirskogo otdeleniya AN SSSR, Irkutsk.

YERMAKOV, Konstantin Semenovich; TARASENKO, Nikolay Vasil'yevich;
LUTOV, Viktor Mikhaylovich; GRECHKIVSKIY, V.S., inzh., red.;
ROMANNIKOV, F., red.; KARZHAVINA, Ye., tekhn. red.

[New methods for chip breaking] Novoe v struzhkolomanii. Lipotsk, Lipetskoe knizhnoe izd-vo, 1960. 35 p.

(MIRA 15:3)

GRECHKO, A. (g.Druzhkovka, Stalinskoy oblasti); KULIKOV, I., inzh.-konstruktor (g.Druzhkovka, Stalinskoy oblasti)

Machine tools designed by operator Persianov. Izobr.i rats. no.12:37 D '58. (MIRA 11:12)

1. Nachal'nik parosilovogo tsekha Toretskogo mashinostroitel'nogo zavoda (for Grechko). 2. Toretskiy mashinostroitel'nyy zavod (for Kulikov).

(Machine tools)

A STATE

ACC NR: AN7006008 SOURCE CODE: UR/9003/67/000/046/0001/0001 AUTHOR: Grechko, A. (Marshal of Soviet Union) ORG: none Army of October Marshal A. Grechko on the Soviet Armed Forces TITLE: SOURCE: Izvestiya, no. 46, 23 Feb 67, p. 1, col. 1-4, p. 2, col. 1-7 TOPIC TAGS: military policy, military status ABSTRACT: Marshal Grechko writes that the Soviet Armed Forces have everything for the reliable defense of the country. As regards the small new solid-fuel rockets on mobile launchers, they are virtually undetectable by air and space reconnaissance and are capable of destroying targets at great distances. There is no region in the ocean where the Soviet submarine rocket fleet could not function. The Soviet might does not reside only in such equipment and new weapons. There is no intention, of course, to minimize the significance of such means as do those who consider nuclear weapons as a paper tiger. To take such a viewpoint is to subject the defense of peace to the gravest danger. The Soviet military science is based on the fact that the outcome of war will not be decided by equipment alone, but also by the people who are armed with it. SUB CODE: [NC] 15/ SUBM DATE: none/ ATD PRESS: 1/1 UDC:none

ACC NR: AN7006008 SOURCE CODE: UR/9003/67/000/046/0001/0001 AUTHOR: Grechko, A. (Marshal of Soviet Union)

ORG: none

Army of October

Marshal A. Grechko on the Soviet Armed Forces TITLE:

SOURCE: Izvestiya, no. 46, 23 Feb 67, p. 1, col. 1-4, p. 2, col. 1-7

military policy, military status

ABSTRACT: Marshal Grechko writes that the Soviet Armed Forces have everything for the reliable defense of the country. As regards the small new solid-fuel rockets on mobile launchers, they are virtually undetectable by air and space reconnaissance and are capable of destroying targets at great distances. There is no region in the ocean where the Soviet submarine rocket fleet could not function. The Soviet might does not reside only in such equipment and new weapons. There is no intention, of course, to minimize the significance of such means as do those who consider nuclear weapons as a paper tiger. To take such a viewpoint is to subject the defense of peace to the gravest danger. The Soviet military science is based on the fact that the outcome of war will not be decided by equipment alone, but also by the people who are armed with it.

SUB CODE: 15/ SUBM DATE: none/ ATD PRESS: Card UDC:none

> APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00051662(

[NC]

GRECHKO, A.A.

Efficiency in the Movoufa oil refinery. Meftianik 1 no.11:19-20

N '56.

(MLRA 9:12)

1. Inzhener po izobretatel'stvu Movoufimskogo neftepererabatyvaushchego zavoda.

(Movoufa---Petroleum--Refining)

GRECHKO, A.A.

Improvement in design at the enlarged pressure-vacuum distillation plant. Dokl.AN Arm.SSR 24 no.2:23-25 57. (MIRA 10:4)

1.Inshener po izobretatelistvu Novoufimskogo neftepererabatyvayushchego zavoda.

(Ufa--Petroleum--Refining)

GRECHKO, A.A., marshal Sovetskogo Soyuza.

On guard over the Soviet homeland. Voen. znan. 37 no. 2:1-2
F '61.

(Russia—Armed forces)

ACC NRI AT5022181

SOURCE CODE: UR/0000/65/000/000/0003/0020

AUTHOR: Grechko, A. A. (Marshal of the Soviet Union, Commander-in-chief of the joint armed forces of the countries of the Warsaw Pact)

1241

ORG: Joint Armed Forces of the Countries of the Warsaw Pact (Ob'yedinennyye vooruzhennyye sily stran Varshavskogo Dogovora)

TITLE: The military alliance of fraternal peoples

SOURCE: V yedinom stroyu (In a united system). Moscow, Voyenizdat M-va Obor. SSSR, 1965, 3-20

TOPIC TAGS: armed force organization, military personnel, political history, political personnel

ABSTRACT: The author discusses the origin and development of the armed forces of the countries of the Warsaw Pact. After World War II the ruling circles in the West, headed by the USA, became alarmed at the growing revolutionary movement of the people and adopted a reactionary stand in foreign policy, exemplified by the policies of "cold war" and "from a position of strength." The beginnings were laid by Churchill in his Fulton speech, and the practical results were the Truman Doctrine, the Marshall Plan, and NATO, SEATO, and CENTO. US military bases were built on the territories of many countries with the aim of attacking the socialist countries. American troops occupied the Chinese island of Taiwan, and the USA launched an aggressive war against the Korean people. The imperialists split up

Card 1/2

L 8326-66

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ACC NR: A 5022181

0

Germany and organized the revenge-seeking West German state which started hastily rebuilding its war potential. West Germany became a member of the aggressive NATO block, as a result of which the peace-loving countries of Europe grouped together into a defense pact which was signed in Warsaw. The aggressive policies of the NATO block and the defensive role of the Warsaw Pact countries are discussed. The composition, strength, and aims of the entire socialist camp are presented. This includes 14 countries with 25% of the territory, 35% of the population, and 38% of the industrial output of the world. Recent aggressive acts of US imperialists include the attempt to strangle the liberation struggle of the people of South Vietnam, expansion of military intervention in Laos, and direct aggression against the Democratic Republic of Vietnam, which is the advance post of the socialist camp in Southeast Asia. Brief historical sketches of countries of the Warsaw Pact are given. The assistance extended by the Soviet Union to the cause of socialism is noted, including the active aid given to the revolutionary struggle in China in the 1920's, Soviet volunteers piloting aircraft together with their Chinese brothers against the Japanese, and the liberation of many lands in World War II. The role of other countries in these struggles is noted. Orig. art. has: 1 figure.

SUB CODE: MS, GO / SUBM DATE: 15Apr65

jw

Card 2/2

CRECHKO D. ZHUKOV, N.; GRISCHKO, D.

Help for the lagging is the law of competition. Mast. ugl. 7 no.1: 3-4 Ja 158. (MIRA 11:2)

1. Nachal'nik shakhty No.3 "Severo-Gundorovskaya" kombinata Shakhtantratsit (Zhukov). 2. Predsedatel' shakhtnogo komiteta shakhty No.3 "Severo-Gundorovskaya" kombinata Shakhtantratsit (for Grechko). (Coal mines and mining)

GRECHKO, D.I.; KOZHEVNIKOVA, G.I., inzh.-konstruktor

Standardization of accompanying documents. Standartizatsiia 29 no.6:48-49 Je '65. (MIRA 18:12)

1. Nachal'nik otdela standartizatsii i normalizatsii Altayskogo motornogo zavoda (for Grechko). 2. Otdel standartizatsii i normalizatsii Altayskogo motornogo zavoda (for Kozhevnikova).

8(0) SOV/112-59-4-7373

Translation from: Referativnyy zhurnal. Elektrotekhnika, 1959, Nr 4, p 132 (USSR)

AUTHOR: Konokotin, G. S., and Grechko, F. M.

TITLE: Microthermometers

PERIODICAL: Nauchno-tekhn. byul. N.-i. in-ta mekhaniz. rybn. prom-sti VNIRO, 1957, Nr 3-4, pp 18-23

ABSTRACT: Electric thermometers with type MT-54 thermistors have been developed for measuring the temperature of fish kept in stock, processed, or transported. Injection needles of 0.8 and 1.5 mm diameter with built-in thermistors are used for measuring the temperature inside the fish body. The fish surface temperature is measured by a contact method. An unbalanced DC bridge for two ranges (from -50° to -20°C and from -20° to +20°C) is used as a measuring device.

M.A.K.

Card 1/1

GRECHKY F.M.

SHLIMOVICH, B.M.; inshener; GRECHEO, F.M., inshener.

Semiconductive controlling and measuring instruments. Nauka i pered. op.v sel'khoz.7 no.1:26-28 Ja '57. (MLRA 10:2) (Measuring instruments)

"Semiconductor-Thermo-Telemeasuring Devices. (20 pages, 1957), Zavodskaya
Laboratoriya, 1957, Vol. 23, Nr. 9, pp 1143-1143 (USSR).

KONOKOTIN, G.S.; GRECHKO, F.M.; MILLER, B.N., spetsred.; LEVITSKAYA, G.N., red.; UKHAINTSKVA, D.V., tekhn.red.

[New semiconductor devices for temperature measurements in the fishing industry] Novye poluprovodnikovye termoizmeritel nye pribory dlia rybnoi promyshlennosti. Moskva, Vses.nauchno-issledovatel skii in-t morskogo rybnogo khoz. i okeanografii, 1959.

17 p. (MIRA 13:9)

(Tisheries--Equipment and supplies)

CRECHKO, G.S.[Hrechko, H.S.], red.

[Possibilities for increasing corn yield; an account of the efficient workers of the collective and state farms in Kharkov and Sumy Province] Rezervy zbil'shennia vrozhaiu kukurudzy; rozpovidi peredovykiv kolhospiv i radhospiv Kharkivs'koi ta Sums'koi oblastei. Kharkiv, Kharkivs'ke knyzhkove vyd-vo, 1962. 50 p. (MIRA 17:11)

KLOCHKO, Petr Dmitriyevich; GRECHKO, G.S. [Hrechko, H.S.], red.; LIEANOVA, M.I. [Lymanova, M.I.], tekhn. red.

[Fattening cattle on a specialized farm] Vidhodivlia khudoby v spetsializovannomu hospodarstvi. Kharkiv, Kharkivs'ke knyzhkove vyd-vo, 1963. 24 p. (MIRA 17:1)

KAMYSHAN, Aleksandr Pavlovich [Komyshan, O.P.]; ORECHKO, G.S. Hrechko, H.S.], red.; LIMANOVA, M.I. [Lymanova, M.I.], tekhn. red.

[Wide-spread sowing of certified potatoes] Sutsil'ni sortovi posivy kartopli. Kharkiv, Kharkivs'ke knyzhkove vyd-vo, 1963. 19 p. (MIRA 17:1)

1. Direktor sovkhoza "Berezivka", Kharkovskogo tresta ovoshchno-molochnykh sovkhozov (for Kamyshan).

FORTUSHNYY, Vladimir Anisimovich; NOVIKOV, Vladimir Mitrofenovich; KALUGIN, Leonid Konstantinovich; GRECHKO, G.S.[Hrechko, H.S.], red.

> [Prophylaxis of diseases in young farm animals; aid to veterinary specialists and stockbreeders] Profilaktyka khvorob molodninka sil's'kohospodars'kykh tvaryn; na dopomohu veterynarnym spetsialistam i pratsivnykam tvarynnytstva. Kharkiv, Kharkivs'ke knyzhkove vyd-vo, 1964. 74 p. (MIRA 18:2)

GRECHKO, G.S.[Hrechko, H.S.], red.

[Large crops every year; the stories of the efficient workers on collective and state farms in Kharkov Province] Vysoki vrozhal shchoroku; rozpovidi peredovykiv kolhospiv i radhospiv Kharkivshchyny. Kharkiv, Kharkivske knyzhkove vyd-vo, 1962. 82 p. (MIRA 18:1)

LUGOVOY, V.S.: LEVITOV, V.I.: VOLYNKIN, V.G.: GRECHKO, G.V.: APOSTOLATOV, G.A.

Experimental basis of electrotechnical research on the "Greater Naryn" project. Isv. AM Kir.SSR no.4:69-88 '57. (MURA 10:7)

(Waryn river--Hydroelectric power stations)

LUGOVOY, V.S.; APOSTOLATOV, G.A.; VOLYNKIN, V.G.; GRECHKO, G.V.; ZHUKOV, N.N.

Factors to be considered in calculating and designing electric power transmission lines in Kirghizistan. Izv. AN Kir. SSR. Ser. est. i tekh. nauk 1 no. 4:3-32 '59. (MIRA 14:4) (Kirghizistan-Electric lines)

(rKeCh	'ko 1.V.					
	:537d; ; Lit piseamer. Disea ex of caltivated Floris					
ABS. JOUR.	: EZhBiol., Pc. 21 1958, No. +5252					
AUTHOR INST. TITLE	: Tracker, W, Greenco, L.V. : Werernian cleatific recard. Institute of Managed - * : Men. t. of Stay of Agents of Me blister of Corn					
ABSTRACT	et., 175., 10.2, 115-115 : mores of Ustilaro zene, Politing onto the soil chick is casty, may permande intedrately face they no not need a object period. Extension of the vermination on to 75 days is determined by external concitions. Taking spores, conicia, and other mycelial repeation, arising upon germination of the upones are subject, in the soil, to degeneration, which excludes the possibility of saprophytic growth of the function and accumulation of injection in the soil. The orimally scarce of injection					
CARD:	1/2 					

S/181/62/004/001/025/052 B102/B104

AUTHORS:

Grechko, L. G., and Ovander, L. N.

TITLE:

Peculiarities of Raman scattering in piezoelectric crystals

PERIODICAL: Fizika tverdogo tela, v. 4, no. 1, 1962, 157 - 162

TEXT: A paper by H. Poulet (Ann. de Phys., 10, 908, 1955) is discussed in detail. On the basis of the theory of polarizability, Poulet has studied anomalies in Raman scattering and described the dependence of Raman scattering on the wave vectors when longitudinal and transverse oscillations occur in the crystal. In the present paper, it is shown that the effects considered by Poulet may be due to intermolecular interactions. The authors do not apply the theory of polarizability whose applicability has not yet been verified for crystals, but consider Raman scattering to be a polariton decay. They restrict themselves to cubic crystals and triply degenerate oscillations. The contribution of intermolecular interaction to Raman scattering is investigated, and expressions are derived for the degree of depolarization and for the dependence of the scattering intensity on the scattering angle for

Card 1/4

Peculiarities of Raman scattering ...

S/181/62/004/001/025/052 B102/B104

(4)

in second-quantization representation and transformed to

$$H_{B} = \frac{1}{\sqrt{N}} \sum_{\substack{mlrij \\ \mu_{1}\mathbf{k}_{1}\mu_{2}\mathbf{k}_{1}\mu_{3}}} \Gamma_{ij} \left(\mathbf{k}_{2} - \mathbf{k}_{1}\right) \left(2m \left|x_{i}\right| 2l\right) \times$$

$$\times (1r |y_{j}| 0) u_{\mathfrak{m}\mu_{1}}^{(3)*}(\mathbf{k}_{1}) u_{\mathfrak{b}\mu_{1}}^{(2)}(\mathbf{k}_{2}) u_{\mathfrak{r}\mu_{3}}^{(1)*}(\mathbf{k}_{2} - \mathbf{k}_{1}) \times \\ \times B_{\mu_{1}}^{(2)+}(\mathbf{k}_{1}) B_{\mu_{1}}^{(2)}(\mathbf{k}_{2}) B_{\mu_{1}}^{(1)}(\mathbf{k}_{2} - \mathbf{k}_{1}),$$

$$\Gamma_{ij}(\mathbf{k}) = \sum_{i} D_{ij}^{0s} e^{-i\mathbf{k}\mathbf{R}_{is}}.$$
 (5)

$$\Gamma_{ij}(\mathbf{s}) = \frac{4\pi p}{3a^3} [-\delta_{ij} + 3\mathbf{s}_i \mathbf{s}_j],$$
 (6)

 $\Gamma_{ij}(\mathbf{k}) = \sum_{s} D_{ij}^{0s} e^{-i\mathbf{k}\mathbf{R}_{so}}. \tag{5}$ $\Gamma_{ij}(\mathbf{s}) = \frac{4\pi p}{3\sigma^3} \left[-\delta_{ij} + 3\mathbf{s}_i \mathbf{s}_j \right], \tag{6}$ $\vec{S} = \vec{k}/|\vec{k}|, \ \vec{B} \text{ are Bose operators.} \ \vec{H}_{B} \text{ can thus be expressed by production}$ and annihilation operators $(f_{\varrho}^+, f_{\varrho}^-)$ using

$$B'_{\mu}(\mathbf{k}) = \sum_{\rho} \left[\xi_{\rho}(\mathbf{k}) u_{\mu\rho}(\mathbf{k}) + \xi_{\rho}^{+}(-\mathbf{k}) v_{\mu\rho}(-\mathbf{k}) \right], \tag{7}$$
Gard 3/4

GRECHKO, L.V.; VILENSKIY, Yu.B.

Contact fog in multilayer color films. Zhur. nauch. i prikl. fot. i kin. 6 nc. 3:225-226 My '61. (MIRA 14:5)

1. Filial Vsesoyuznogo nauchno-issledovatel'skogo kinofotoinstituta, Shostka.

(Color photography—Films)

BOGOLYUBSKIY, V.A.; SHCHUMELYAK, G.P.; GRECHKO, L.V.; VILENSKIY, Yu.B.

Investigating the non-diffusing reducing agents for multilayer color films. Usp. nauch. fot. 8:61-66 '62. (MIRA 17:7)

s/058/63/000/003/044/104 A062/A101

AUTHORS: Bogolyubov, V. A., Shumelyak, G. P., Grechko, L. V., Vilenskiy, Yu.B.

TITLE: Investigation of non-diffusing reducers for color multilayer films

PERIODICAL: Referativnyy zhurnal, Fizika, no. 3, 1963, 86, abstract 3D583 ("Uspekhi nauchn. fotogr.", 1962, no. 8, 61 - 66)

TEXT: Non-diffusing reducers are employed in color films for removing two effects of the interaction between emulsion layers: 1) the non-selective formation of dyes due to the diffusion of intermediate products of oxidation of the developing substance from the layers, that contain dye forming elements with a low reaction capacity, into the neighboring layers, and 2) the formation of a higher fog on the contact boundary of emulsion layers with the filter layer of colloid Ag (contact fog). There are described the results of the investigation of non-diffusing reducers - derivatives of hydroquinone. It is shown that with an increase of the number of carbon atoms in the alkyl substitution agents the diffusion stability and the antifog action increase from 2,5-dibutylhydroquinone

to 2,5-dioctylhydroquinone, and then somewhat decrease because of the bad solu-

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bility of the dialkylhydroquinones. The same law was observed in a number of 2,5-bis-(dialkylaminomethyl)-hydroquinones; however the application of some dialkylhydroquinones and 2,5-bis-(dialkylaminomethyl)-hydroquinones was limited by the formation of dyed compounds in their photographic processing. There was studied the formation of dyed compounds from 2,5-dialkylhydroquinones and 2,5-bis-(dialkylaminomethyl)-hydroquinones and the purple component 1-(4-phenoxy-3-sulphophenyl)-3-oatadecylpyrazolone-5. It is established that the formation reaction of the dyed compound takes place at the Ag bleaching stage of the image by potassium ferricyanide. When treating a film, that contains a non-diffusing reducing agent, by potassium ferricyanide, oxidation of the film to the corresponding quinone takes place. There are described the chemical structure and spectral properties of some dyes which are formed at the interaction of that quinone with the dye forming components.

D. Balabukha

[Abstracter's note: Complete translation]

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MAKHROVSKIY, V.G.; GRECHKO, M.F.

Investigating particular methods in evaluating the smoothness of surfaces. Trudy VNIIM no.12:122-132 '51. (MIRA 11:6) (Surfaces(Technology)--Standards)

Investigation of the PIU-1-type interferometer. Trudy VMIIM mo.18:
48-55 *52. (MIRA 11:6)

GRECHKO, M.F.; SMIRNOVA, L.I.; STRAKUM, G.I.; SHAROVA, Ye.Ye.

Standard device for measuring angles. Trudy inst.Kom.stand, mer i izm.prib no.47:127-138 *61. (MIRA 15:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut metrologii im. D.I.Mendeleyeva.

(Goniometers)

GRECHKO, M.K. VILENSKIY, Yu.B.; GRECHKO, M.K.

Relation between the total resolving power and the resolving power of the individual layers in multilayer color film. Zhur.nauch.i prikl.fot.i kin. 1 no.5:359-361 S-0 '56. (MLRA 9:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy kino-fotoinstitut i fabrika kinoplenki no.3:359-361 S-0 '56. (MLRA 9:11) (Color photography)

L 6915-65 ENT(m)/EMP(j) Pc-4 SSD/AEDC(a)/ASD(a)-5/AFWL/ESD(gs)/ESD(t)/
RAEM(t) RM
ACCESSION NR: AR4039918 S/0058/64/000/004/D115/D116

AUTHORS: Sy*tnik, Z. P.; Lyubich, M. S.; Abdullayev, A. A.; Lifshits, E. B.; Grechko, M. K.; Vilenskiy, Yu. B.

SOURCE: Ref. zh. Fiz., Abs. 4D892

TITLE: Research in the series of merocyanines of azolones. IX. Alpha-ethoxythiadimentinemerocyanins with different substitutes at the cyclic nitrogen atoms

CITED SOURCE: Kinotekhnika. Nauchno-tekhn. sb., vy*p. 4, 1963, 54-63

TOPIC TAGS: photosensitivity, photographic emulsion, color film, organic sensitizer, diffusion

TRANSLATION: The dye α -ethoxythiadimethinemerocyanin, used as an optical sensitizer for the green-sensitive emulsion of negative color film, has a shortcoming in that it diffuses relatively easily

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in the neighboring layers of multilayer films. To replace it by a dye free of this shortcoming, the authors have synthesized and tested the dyes thia- and a-ethoxythiadimethinemerocyanin and derivatives of thyazoleidinthion (2)-on(4) with different substitutes at the cyclic nitrogen atoms, and investigated their photographic properties. It is established that replacement of the ethyl group at one or both nitrogen atoms of the hetero-remainders by the n-butyl group, or replacement of the same group in the 3-position of rodianine residue by the phenyl group, greatly reduces the tendency of the dyes to diffusion, without appreciably influencing their color, character of sensitization spectrum, and effective action. A. Kartuzhanskiy.

SUB CODE: OP, ES

ENCL: 00

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L 13004-65 ENT(m)/ENP(b) JD/JG ACCESSION NR: AR4039917

S/0058/64/000/004/D112/D112

SOURCE: Ref. zh. Fiz., Abs. 4D871

AUTHORS: Grechko, M. K.; Natanson, S. V.; Al'perovich, M. A.

TITLE: Optical sensitization of <u>silver</u> iodide bromide emulsion with dyes having different tendencies to polymerization

CITED SOURCE: Kinotekhnika. Nauchno-tekhn. sb., vy*p. 4, 1963, 92-102

TOPIC TAGS: photosensitivity, silver halide recording material, photographic emulsion, polymerization, optical stabilizer

TRANSLATION: The absorption and efficiency of certain optical stabilizers (OS) of the carbocyanine class, having different tendencies to formation of polymer aggregates in the adsorbed state, were investigated in four negative AgBr(I) emulsions, differing in

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ACCESSION NR: AR4039917

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their preparation conditions and in the microcrystal dimensions. In the absence of the stabilizing salt, the spectra of the OS which did not polymerize at all or which formed only J-aggregates varied little from one emulsion to the other; to the contrary, the effect of the OS which formed several types of aggregates depended essentially on the type of emulsion. The stabilizing salt exerted a considerable influence on the sensitizing action of the OS, and this influence differed in character for different emulsions sensitized by the same OS. An increase in sensitivity was frequently observed here, sometimes without a change in the absorption of the adsorption OS layer, and sometimes with redistribution of different states, the degree of this redistribution being dependent on the type of emulsion. Bibliography, 31 titles. A. Kartuzhanskiy.

SUB CODE: OP, ES

ENCL: 90

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S/077/63/008/002/006/009 A066/A126

AUTHOR: Grechko, M.K.

TITIE: The effect of potassium thiocyanate on the formation of various J-states in the adsorption layer of meso-ethyl thiacarbocyanine

ethylate

PERIODICAL: Zhurnal nauchnoy i prikladnoy fotografii i kinematografii, v. 8, no.

2, 1963, 137 - 139

TEXT: It has been found that in the case of 3,3',9-triethyl thiacarbocy-anine two J-states are formed on the surface of microcrystals in emulsion II (cf. Table). According to a previous paper of the author (M.K. Grechko et al., Zh. nauchn. i prikl. fotogr. i kinematogr., 1962, 7, 142), bands with peaks at 615 and 640 mμ correspond to these states. The present paper deals with the properties of the emulsion that give rise to the development of two polymers in the adsorption layer of meso-ethyl thiacarbocyanine ethylate. Special attention was devoted to the influence exterted by variations in the size of microcrystals of emulsion II (without chemical ripening) and of their modifications produced by

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The effect of potassium thiocyanate on ...

slight amounts of ammonia (0.044 mole/1) on the tendency to aggregation on the surface of silver halide. The two J-states, which increase the red sensitivity of the adsorption layer considerably, are attributed to the presence of thiocyanate in the emulsion. There are 2 figures and 1 table.

ASSOCIATION: Filial NIKFI Shostka (Branch of NIKFI, Shostka)

SUBMITTED: June 11, 1962

Table: Properties of four emulsions. 1 - Number of emulsion; 2 - CNH₃, mole/1; 3 - mean crystal size, μ^2 ; 4 - dispersion, μ^2 ; 5 - CAgI, mole%; 6 - CAgI, g/1 of emulsion; 7 - emulsion after second ripening.

1	2 С _{NН₁, моль/л}	(3) Средний грав- мер кристал- лов, µ°	Диспер- сия, р	CAgJ.	В САВ. е/А вмульсяя	P	рH	pBr
O Swyme							вмульсти после вто- рого созревания	
I II IV	0,70 0,044 0,44	1,337 1,881 0,505 0,346	0,58 2,39 0,3 0,5	3,1 0,7 1,3 7,7	40 64 24 17	2,5 1,6 5,0 5,4	6,9 7,2 7,0 7,2	2,5 3,5 3,3 3,3

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