"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2

PRILEZHAYEVA, Ye. N.

Synthesis of [illegible] compounds [illegible] vinyl ethers and acetylene. XIV. [illegible] allyl sulfides. [illegible] Karavaev [illegible] Moskva [illegible] 1957. [illegible] CH_3 [illegible] $CH_3CH_2CH_2$ [illegible] and heating 3 hrs. at 60° yielded polymers, pptd. from [illegible] with MeOH. The [illegible] products were relatively low in comparison with [illegible] pretd. by radical polymerization. The [illegible] CH_3 [illegible] XV. Free-radical copolymerization of bio-vinyl ethers with some unsaturated compounds. [illegible] Karavaev [illegible] Prilezhaeva [illegible] Shostakovskii [illegible] with [illegible] hand [illegible] Curves of the [illegible]

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PRILEZHAYEVA, V.M.; KARAVAYEVA, V.M.; PRILEZHAYEVA, Ye.N.; SHOSTAKOVSKIY, M.F.

Synthesis of sulfur compounds based on vinyl ethers and acetylene. Report No.15: Free-radical copolymerization of thiovinyl ethers with some unsaturated compounds. Izv. AN SSSR. Otd. khim. nauk no.5:650-651 My '57. (MIRA 10:8)

1. Institut organicheskoy khimii im. N.D. Zelinskogo Akademii nauk SSSR.

(Polymerization) (Vinyl ether)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2

AUTHORS: Prilezhayeva, Ye. N., Shostakovskiy, M. F. SOV/62-58-9-14/26

TITLE: Synthesis of Sulfur-Containing Compounds on the Basis of Vinyl Ether and Acetylene (Sintez serusoderzhashchikh veshchestv na osnove vinilovykh efirov i atsetilena) Communication 16: The Mobility of the β-Alkoxy Groups in Ethylalkyl and Aryl Sulfides (Soobshcheniye 16. O podvizhnosti β-alkoksigrupp v etilalkil- i arilsul'fidakh)

PERIODICAL: Izvestiya Akademii nauk SSSR. Otdeleniye khimicheskikh nauk, 1958, Nr 9, pp 1104 - 1110 (USSR)

ABSTRACT: There are many papers dealing with the hydrolysis reactions of β-chloro- and bromo-ethylalkyl (aryl) sulfides and Yperite (dichlorodiethyl sulfide) as well as the substitution reactions involving their halides. There are no papers, except that of Kretov (Ref 7), which deal with the substitution of alkoxy groups in β-alkoxyalkyl sulfides. As a result of their investigations the authors of this paper were able to determine optimal reaction conditions for the preparation of the products (contrary to Markovnikov's rule) of the reaction between vinylalkyl esters and mercaptans. They were also able to prepare with good yield a series

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Synthesis of Sulfur-Containing Compounds on the Basis of SOV/62-[illegible]
Vinyl Ether and Acetylene. Communication 16: The Mobility of the β-Alkoxy Groups in Ethylalkyl and Aryl Sulfides

of 1-alkoxy-2-alkyl (aryl) mercaptans. It was shown that in 1-alkoxy-2-alkyl(aryl) mercaptans the alkoxy group can easily be replaced by chlorine. A series of 1-chloro-2-alkyl(aryl)mercaptans were synthesized according to the following general reaction:

$$C_4H_9OCH=CH_2 \xrightarrow{RSH} C_4H_9OCH_2CH_2SR \xrightarrow{HCl} ClCH_2CH_2SR.$$

It is assumed that the reaction involving the formation of the ethylenesulfo ion occurs, which would then explain the dependence (found in this work) of the case of exchange of the alkoxy group upon the structure of other parts of the starting (reactant) sulfide. There are 3 tables and 13 references, 5 of which are Soviet.

ASSOCIATION: Institut organicheskoy khimii im.N.D.Zelinskogo Akademii nauk SSSR (Institute of Organic Chemistry imeni N.D.Zelinskiy, AS USSR)

SUBMITTED: February 8, 1957

Card 2/2

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2

AUTHORS: Shostakovskiy, M. F., Prilezhayeva, Ye. N., SOV/62-58-10-14/25
Uvarova, N. I.

TITLE: The Synthesis of Sulfur Compounds on the Basis of Vinyl Ethers and Acetylene (Sintez sernistykh veshchestv na osnove vinilovykh efirov i atsetilena) Communication 17. Vinyl Ether of Monothioethylene Glycol (Soobshcheniye 17. Vinilovyye efiry monotioetilenglikolya)

PERIODICAL: Izvestiya Akademii nauk SSSR. Otdeleniye khimicheskikh nauk, 1958, Nr 10, pp 1245 - 1249 (USSR)

ABSTRACT: In earlier papers (Refs 1,2) it was shown that the double bond in the α,β position to the sulfur atom is considerably less active in ion reactions of the compound and in polymerizations, than the same bond under the action of the oxygen atom. In the present paper the authors mention some data on the chemical behaviour of vinyl ether of monothioethylene glycol. Its complete vinyl ether is of interest as it contains in one molecule both types of double bonds. In the vinylation of monoethylene glycol its S-vinyl ether

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2

The Synthesis of Sulfur Compounds on the Basis of Vinyl Ethers and Acetylene. Communication 17. Vinyl Ether of Monothioethylene Glycol SOV/62-58-10-14/25

is formed in good yield: 1-vinyl mercapto-2-oxy-ethane, which points to the relatively high reactivity (under the conditions of the mercapto group as compared to that of the hydroxyl group). The obtained 1-vinyl mercapto-2-oxy ethane has the same chemical properties of the not substituted thiovinyl ether. In the reaction with ethyl mercaptane (in contrast to other thiovinyl ethers, Refs 1,6) a mixture of the combination products is formed. Under the action of dinitrile of the azoiso butyric acid a polymer is formed with a three-dimensional structure (by partly linking at the expense of the oxy groups, as this polymer can not be dissolved in any of the solvents under review). The authors showed that the double bonds in 1-mercapto-2-vinyl ethane under the action of oxygen and sulfur are characterized by their easy ion reactions especially the reaction of the hydrolysis in acid medium. There are 1 table and 9 references, 6 of which are Soviet.

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2

The Synthesis of Sulfur Compounds on the Basis of Vinyl Ethers and Acetylene. Communication 17. Vinyl Ether of Monothioethylene Glycol SOV/62-58-10-14/25

ASSOCIATION: Institut organicheskoy khimii im.N.D.Zelinskogo Akademii nauk SSSR (Institute of Organic Chemistry imeni N.D. Zelinskiy AS USSR)

SUBMITTED: February 8, 1957

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APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2

AUTHORS: Shostakovskiy, M. F., Prilezhayeva, Ye. N., SOV/62-58-10-15/25
Karavayeva, V. M.

TITLE: Synthesis of Sulfur Compounds From Vinyl Ethers and Acetylene(Sintez sernistykh veshchestv na osnove vinilovykh efirov i atsetilena)Communication 18. S-Vinylmercaptobenzothiazole(Soobshcheniye 18. S-vinilmerkaptobenzotiazol)

PERIODICAL: Izvestiya Akademii nauk SSSR. Otdeleniye khimicheskikh nauk, 1958, Nr 1o, pp 125o - 1253 (USSR)

ABSTRACT: The authors were interested in synthesizing vinyl sulfides having nitrogen atoms in the molecule, as well as to study their properties. Mercapto benzothiazole "Captax" which in the crystalline state has the thion form, at higher temperatures, however, and in alkaline medium easily passes over into the thiol form was chosen as initial compound of the synthesis. S-vinyl mercapto benzothiazole was produced by the action of acetylene on captax. Besides, potassium mercapto benzothiazole was separated from the reaction mixture. Potassium mercapto benzothiazole was used as catalyst

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Synthesis of Sulfur Compounds From Vinyl Ethers and Acetylene. Communication 16. S-Vinylmercaptobenzothiazole SOV/62-58-10-15/25

by which fact the yield of the vinylation product could be increased. In the vinylation the corresponding mercaptide occurs as catalyst, with the reaction of acetylene with the mercaptide ion determining the velocity of the process. The other reactions of vinyl mercapto benzothiazole are similar to the reactions of aliphatic thiovinyl ether. Finally the authors discussed the transformations of S-vinyl mercapto benzothiazole, as the reaction of S-vinyl mercapto benzothiazole and sublimate as well as the formation of β-ethyl mercapto-S-ethyl mercapto benzothiazole. There are 3 tables and 9 references, 4 of which are Soviet.

ASSOCIATION: Institut organicheskoy khimii im.N.D.Zelinskogo Akademii nauk SSSR (Institute of Organic Chemistry imeni N.D. Zelinskiy AS USSR)

SUBMITTED: February 22, 1957

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11(4) PHASE I BOOK EXPLOITATION SOV/2075

Akademiya nauk SSSR. Bashkirskiy filial, Ufa

Khimiya seraorganicheskikh soyedineniy, soderzhashchikhsya v neftyakh i nefteproduktakh; [materialy III nauchnoy sessii] (Chemistry of Sulphur Organic Compounds Contained in Petroleum and Petroleum Products; [Papers of the Third Scientific Session]) Moscow, Izd-vo AN SSSR, 1959. 376 p. 2,000 copies printed. Errata slip inserted.

Editorial Board: R.D. Obolentsev (Resp. Ed.) Doctor of Chemical Sciences; G.D. Gel'pern, Doctor of Chemical Sciences; Ya. B. Chertkov, Doctor of Technical Sciences; V.V. Panov, Candidate of Technical Sciences; and V.P. Rozhdestvenskiy, Candidate of Chemical Sciences; Ed. of Publishing House: I.I. Brusov; Tech. Ed.: T.P. Polenova.

PURPOSE: This book is intended for chemists, chemical engineers, and technicians specializing in the chemistry of petroleum.

COVERAGE: The book is a collection of papers presented at the Third Scientific Session on the Chemistry of Organic Sulfur- and Nitrogen Compounds Contained in Petroleum and Petroleum Products. The scientific session was held in Ufa, June 3-8, 1957. The book consists of six sections: 1) Synthesis, characterization, and analysis of organic sulfur compounds; 2) Separation and composition of organic sulfur compounds contained in petroleum and petroleum products; 3) Transformation of organic sulfur compounds by thermal catalysis; 4) Corrosive properties of and tar formation in sulfur-containing petroleum and petroleum products; 5) Uses of organic sulfur compounds and hydrogen sulfide; 6) Physiological properties of organic sulfur compounds. No personalities are mentioned. There are 315 references, of which 179 are Soviet, 118 English, 5 French, 12 German, and 1 Czech.

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APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2

SHOSTAKOVSKIY, M.F.; PRILEZHAYEVA, Ye.N.; KARAVAYEVA, V.M.

Synthesis of sulfur compounds from vinyl ethers and acetylene. Part 19: Role of thionic complexes in the ionic polymerization of sulfur-containing vinyl compounds. Vysokom.soed. 1 no.4:582-582-589 Ap '59. (MIRA 12:9)

1. Institut organicheskoy khimii AN SSSR im. N.D.Zelinskogo.
(Polymerization) (Vinyl compounds)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2

SHOSTAKOVSKIY, M.F.; PRILEZHAYEVA, Ye.N.; KARAVAYEVA, V.M.

Synthesis of sulfur compounds from vinyl ethers and acetylene. Part 20: Interaction of mercaptals with vinyl sulfides and vinyl ethers. Vysokom.soed. 1 no.4:590-593 Ap '59. (MIRA 12:9)

1. Institut organicheskoy khimii AN SSSR im. N.D.Zelinskogo.
(Sulfur compounds) (Vinyl compounds)

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2

SHOSTAKOVSKIY, M.F.; PRILEZHAYEVA, Ye.N.; KARAVAYEVA, V.M.

Synthesis of sulfur compounds from vinyl ethers and acetylene. Part 21: Ionic copolymerization of vinyl sulfides with styrene and vinylbutyl ether. Vysokom soed. 1 no.4:594-596 Ap '59. (MIRA 12:9)

1. Institut organicheskoy khimii AN SSSR im. N.D.Zelinskogo. (Polymerization) (Sulfur compounds)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2

SHOSTAKOVSKIY, M.F.; PRILEZHAYEVA, Ye.N.; KARAVAYEVA, V.M.

Determination of relative activity coefficients in copolymerization of vinylethlsulfide with styrene and methylmethacrylate. Vysokom.soed. 1 no.5:781-783 My '59. (MIRA 12:10)

1. Institut organicheskoy khimii im. N.D.Zelinskogo.
(Sulfide) (Styrene) (Methacrylic acid)

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67037

5.3831

~~5 (1), 5 (3)~~

SOV/153-2-5-22/31

AUTHORS: Shostakovskiy, M. F., Prilezhayeva, Ye. N., Karavayeva, V. M.

TITLE: Synthesis and Polymerization of Vinyl Sulfides

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Khimiya i khimicheskaya tekhnologiya, 1959, Vol 2, Nr 5, pp 761 - 768 (USSR)

ABSTRACT: At the Laboratory for Vinyl Compounds of the Institute in which the authors work, the synthesis methods and the chemical changes of vinyl compounds, which contain, besides double bonds such hetero atoms as O,S,N,Si, etc, have been studied for several years. The present paper gives a review on the studies of the synthesis of monomers of this group containing sulfur, some of their reactions, the polymerization and the copolymerization. A general method of synthesis was developed (Ref 5) based on a modification of the vinylization reaction according to A. Ye. Favorskiy and M. F. Shostakovskiy (1) (Ref 6). An excess of acetyls still remains to be a necessary condition. The vinylization of mercaptanes yields several advantages (Refs 7,9,10). From alkyl-mercaptanes and di-acetyls (Refs 11,12) it is possible to obtain the corresponding alkyl-thio-butenine (Equation (3), Table 1) at 30-50°C, in a methanol medium and in the presence of

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SOV/153-2-5-22/31

Synthesis and Polymerization of Vinyl Sulfides

2-3% of KOH. The authors developed, instead of the acid hydrolysis to the acetaldehyde and a titration of the latter, the splitting of the vinyl sulfides by an alcoholic sublimate solution as a method for quantitative determination (Refs 7,8) (4). This reaction (4) is also suited for alkyl-thio-butenines (Refs 11,12). The authors also established the conditions of the selective sulfur oxidation in vinyl-alkyl sulfides in which vinyl sulfoxides or vinyl sulfones form (Table 2). These can be used as starting substances for polymerization (5). The introduction of the sulfur increases the dielectric properties of the polymer (Ref 19) and its thermoplasticity (Ref 16). By introducing the sulfone groups, the benzo-resistance increases (Ref 20). It was observed that vinyl sulfides have less inclination to kationic polymerization under the influence of metal halides, but they easily form polymers under the influence of a suitable free-radical initiator. The best yield of ionic polymers was obtained in the presence of tri-boron-fluoride-ethyrate (Ref 21). The polymers are viscous oils. For the determination of their molecular weight, titration of the thio-vinyl terminal groups by sublimate was used besides cryoscopy (see also above). Good accordance confirms the structure of the terminal groups

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Synthesis and Polymerization of Vinyl Sulfides SOV/153-2-5-22/31

to be -CH=CHSR. Table 3 shows the fractionation of a sample of polyvinyl-ethyl sulfide. Tables 4 and 5 illustrate the conditions of polymerization of vinyl sulfides in the presence of free-radical initiators and the properties of the polymers obtained. The best yields were obtained with dinitrile of the azo-isobutyric acid. Benzoyl-peroxide cannot be used in this case (Ref 23). No thione groups form on introduction of a free radical and the terminal groups of the polymers have also the character of a thio-vinyl (7). 12 pairs of monomers containing vinyl sulfides were studied on copolymerization. The properties of the copolymers are also studied. Table 6 shows the polymerization of the vinyl-ethyl sulfone. The rules established can be explained in view of the reciprocal influence of the C=C linkage and the sulfur atom in the vinyl-sulfide molecule. There are 6 tables and 31 references, 24 of which are Soviet.

ASSOCIATION: Institut organicheskoy khimii AN SSSR im. N. D. Zelinskogo (Institute of Organic Chemistry of the Academy of Sciences, USSR imeni N. D. Zelinskiy)

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2

5(3)

AUTHORS: Shostakovskiy, M. F., Prilezhayeva, Ye. N., Gershteyn, N. A., Karavayeva, V. M.

SOV/62-59-5-22/40

TITLE: The Synthesis of Sulfurous Substances on the Basis of Vinyl Ethers and Acetylene (Sintez sernistykh veshchestv na osnove vinilovykh efirov i atsetilena). Report 22. On the Reaction of Vinyl-ethyl Sulfide With Benzoyl Peroxide (Soobshcheniye 22. O reaktsii viniletilsul'fida s perekis'yu benzoila)

PERIODICAL: Izvestiya Akademii nauk SSSR. Otdeleniye khimicheskikh nauk, 1959, Nr 5, pp 904-909 (USSR)

ABSTRACT: The reaction mentioned in the subtitle is investigated. It develops strictly exothermically and begins without previous heating, the reaction product being formed practically completely from the initial product: The corresponding thioacylal (1-ethylmercapto-1.2 dibenzoate ethane)

$$(C_6H_5COO)_2 + CH_2{=}CHSC_2H_5 \rightarrow C_6H_5COOCH_2CH(SC_2H_5)(OCOC_6H_5)$$

The character of the reaction products is shown by table 1.

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2

The Synthesis of Sulfurous Substances on the Basis of Vinyl Ethers and Acetylene. Report 22. On the Reaction of Vinyl-ethyl Sulfide With Benzoyl Peroxide SOV/62-59-5-22/40

The reaction is so rapid that no polymerization of the vinyl-ethyl sulfide cannot take place. The benzoyl peroxide can therefore not be used as initiator for this polymerization. The simple radical may, however, lead to a slow low polymerization of the vinyl sulfide (system of equations 2 - 7) which develops in form of a chain reaction. Furthermore, it was possible to carry out polymerization with ditertiary butyl peroxide also with formation of low-molecular polymers. It was, however, not possible to obtain affiliation products. In the experimental the individual syntheses and reactions are described. There are 2 tables and 14 references, 7 of which are Soviet.

ASSOCIATION: Institut organicheskoy khimii im. N. D. Zelinskogo Akademii nauk SSSR (Institute of Organic Chemistry imeni N. D. Zelinskiy of the Academy of Sciences, USSR)

SUBMITTED: July 30, 1957

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2

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SOV/62-59-12-33/43

5.3620

AUTHORS: Shostakovskiy, M. F., ~~Prilezhayeva, Ye. N.~~, Tsymbal, L. V., Azovskaya, V. A., Starova, N. G.

TITLE: Brief Communication. Concerning Addition of Nucleophilic Reagents to α, β -Unsaturated Sulfones in Presence of "Triton B"

PERIODICAL: Izvestiya Akademii nauk SSSR. Otdeleniye khimicheskikh nauk, 1959, Nr 12, pp 2239-2241 (USSR)

ABSTRACT: Addition of nucleophilic reagents (alcohols, mercaptans, hydrogen sulfide, dialkyldithiophosphoric acids, etc.) to α, β -unsaturated sulfones of various structures is catalyzed to a great extent by "Triton B" (benzyltrimethylammonium hydroxide). The addition reaction starts upon addition of a few drops of "Triton B" (40-60% aqueous solution, 0.2-0.5% by weight) to an equimolar mixture of reacting substances. In most cases the reaction is exothermic (temperature rises up to 80-100°) and is completed within 2-3 hr, with a nearly quantitative yield. α, β -Unsaturated sulfones,

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Brief Communication. Concerning Addition of Nucleophilic Reagents to α, β-Unsaturated Sulfones in Presence of "Triton B"

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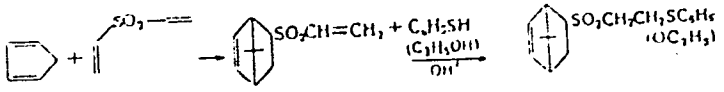
SOV/62-59-12-33/43

having other unsaturated bonds in the molecule (e.g., endo- and exovinyl bicycloheptenyl sulfones, obtained by reaction of cyclopentadiene with divinyl sulfone), add alcohol or mercaptan under these conditions only at the unsaturated bond activated by sulfone group:



(endo + exo) (endo + exo)

Disulfones, having two unsaturated bonds, add two mercaptan molecules. Table 1 lists the yields and physical constants of the addition products (eight of them prepared to the first time) obtained by the authors.

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Brief Communication. Concerning Addition of Nucleophilic Reagents to α, β - Unsaturated Sulfones in Presence of "Triton B"

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SOV/62-59-12-33/43

TABLE 1

FORMULA	YIELD IN %	bp IN °C (PRESSURE IN mm)	mp (°C)	FOUND %			CALC %		
				C	H	S	C	H	S
$C_2H_5SO_2C_2H_4SC_2H_5$ **)	85,4	147—148,5 (3)	35—36	39,82	7,75	34,93	39,53	7,74	35,17
$C_2H_5SO_2C_2H_4SC_4H_9$ *)	99	—	32—93	42,93	8,22	32,42	42,82	8,21	32,66
$C_2H_5SO_2C_2H_4SC_6H_5$ *)	98	—	40—41	45,44	8,62	30,57	45,68	8,62	30,48
$C_2H_5SO_2C_2H_4SCH_2C_6H_5$ *)	90	—	56	54,04	6,04	26,10	54,06	6,00	26,24
$C_2H_5SO_2C_2H_4SC_2H_4OH$	90	124—125 (0,04)	39—40	52,05	6,03	27,68	52,14	6,12	27,90
$C_2H_5SO_2C_2H_4SC_6H_5$ ***)	90	—	42—43	34,78	7,46	22,94	34,76	7,49	23,20
$C_2H_5SO_2C_2H_4OH$	91	125—130 (4)	—	43,40	8,42	19,30	43,39	8,49	19,29
$C_2H_5SO_2C_2H_4OC_2H_5$ *)	89,6	116—116,5 (0,5)	—	49,37	9,37	16,44	49,45	9,34	16,50
$C_2H_5SO_2C_2H_4OC_4H_9$ -n) *)		114—116 (0,03)	—	33,13	7,77	17,66	39,54	7,74	17,60
$C_2H_5SO_2C_2H_4OCH_2CH_2OH$ *)	Сумм. 85,4	188—190 (0,03)	—	39,55	7,33	21,19	39,71	7,33	21,21
$(C_2H_5SO_2C_2H_4OCH_3)_2$ *)	85	—	108—109	35,40	6,79	34,82	35,01	6,61	35,05
$(C_2H_5SO_2C_2H_4)_2S$ *)	34—43	133—137 (0,04)	—	31,46	6,18	31,43	31,35	6,25	31,40
****) $C_2H_5SO_2C_2H_4SP(S)(OC_2H_5)_2$									

(CONT.)

Card 3/5

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2

77089, SOV/62-59-12-33/43

TABLE 1 (cont.)

FORMULA	YIELD %	bp in °C (PRESSURE IN mm)	mp (°C)	FOUND % C	FOUND % H	FOUND % S	CALC % C	CALC % H	CALC % S
$SO_2C_2H_4OC_2H_5$ *) (эндо + экзо)	Сумм. 94	85—85,5 (0,03)	--	56,95	8,06	13,93	57,36	7,88	13,92
		95—97 (0,03)	--	57,53	8,01	14,04			
$SO_2C_2H_4SC_6H_5$ *) (эндо + экзо)	Сумм. 86	—	33	—	—	21,50	61,06	6,13	21,74
		—	47	61,32	6,27	21,70			
$C_6H_5SO_2CH_2CH(SC_6H_5)-CHCH_2SO_2C_6H_5$ *)	84	—	112—113	56,53	6,66	24,81	55,99	6,66	24,92

Notes: * Obtained for the first time. ** In the literature [Lorenz, W., Pat. FRG (Federal Republic of Germany), 876691 (5/18/1953); Referat. Zhur. Khim., Nr 32864 (1955)], it is described as a compound, liquid at room temperature, bp 127-129° (2 mm). *** Literature [Moore, A. H. Ford, J. Chem. Soc., 1949, 2433], mp 36-38°. **** Found: P 9.62; 10.00%. Calculated: P. 10.11%. In the literature [Thompson, R. B., Cheniceck, J. A., Symon, T., J. Ind. Eng. Chem., 50, 797 (1958)] it is described as "nonvolatile residue".

Card 4/5

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2

Brief Communication. Concerning Addition of Nucleophilic Reagents to α, β - Unsaturated Sulfones in Presence of "Triton B"

77089
SOV/62-59-12-33/43

There is 1 table; and 6 references, 2 Soviet, 1 German, 1 U.K., 2 U.S. The U.K. and U.S. references are: A. H. Ford, Moore, J. Chem. Soc. 1949, 2433; J. L. Szabo, E. T. Stiller, J. Amer. Chem. Soc. 70, 3667 (1948); Ch. D. Hurd, L. L. Gershbein, J. Amer. Chem. Soc. 69, 2328 (1947); R. B. Thompson, J. A. Cheniceck, T. Symon, J. Industr. and Engng. Chem., 50, 797 (1958).

ASSOCIATION: N. D. Zelinskiy Institute of Organic Chemistry of the Academy of Sciences, USSR (Institut organicheskoy khimii imeni N. D. Zelinskogo Akademii nauk SSSR)

SUBMITTED: May 4, 1959

Card 5/5

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2

S/079/60/030/04/[illegible]/060
B001/B016

5.3831

AUTHORS: Shostakovskiy, M. F., Prilezhayeva, Ye. N., Azovskaya, V. A., Dmitriyeva, G. V.

TITLE: Investigations in the Field of Sulfones and Sulfoxides. I. Synthesis of Vinyl Ethyl Sulfone and Some of Its Transformations

PERIODICAL: Zhurnal obshchey khimii, 1960, Vol. 30, No. 4, pp. 1123-1130

TEXT: The data available on the reactivity of low vinyl alkyl sulfones (Refs. 1-10) under the influence of ionic and free-radical initiators are not clear. In order to clarify this problem, vinyl ethyl sulfone was taken as initial product. It was synthesized by dehydration of 2-hydroxy-diethyl sulfone (I) with phosphoric acid at 260-270° in the vacuum (Ref. 11) according to the scheme

$$HOCH_2CH_2SC_2H_5 \xrightarrow{H_2O_2} \underset{(I)}{HOCH_2CH_2SO_2C_2H_5} \xrightarrow{H_3PO_4} \underset{(II)}{CH_2{=}CHSO_2C_2H_5}.$$

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2

80754

Investigations in the Field of Sulfones and Sulfoxides. I. Synthesis of Vinyl Ethyl Sulfone and Some of Its Transformations

S/079/60/030/04/13/080
B001/B016

The yield in pure sulfone (II) was 70-75%; it contained no sulfoxides. The dehydration method is far more convenient than the widely used dehydrochlorination method (Refs. 1,2a,3,4,6,10) (Scheme 2). "Triton B" was used as the initiator of the ionic reactions of vinyl ethyl sulfone (II); the reaction proceeded smoothly and quantitatively on intense heating (Scheme 3):

$$C_2H_5SO_2CH{=}CH_2 \xrightarrow{C_6H_5SH} (III)$$
$$C_2H_5SO_2CH{=}CH_2 \xrightarrow{C_2H_5OH} (IV)$$
$$C_2H_5SO_2CH{=}CH_2 \xrightarrow{H_2O} (I).$$

The attempt of polymerizing vinyl ethyl sulfone under the influence of free-radical initiators gave polymers in fair yield on prolonged heating (Polymerization Schemes). Vinyl ethyl sulfone shows a high dienophilic activity, and yields adducts with cyclopentadiene, hexachloro cyclopentadiene, and chloroprene. The table shows the polymerization of vinyl ethyl sulfone at 60° for 60 h. There are 1 table and 20 references, 4 of which

Card 2/3

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2

Investigations in the Field of Sulfones and Sulfoxides. I. Synthesis of Vinyl Ethyl Sulfone and Some of Its Transformations

S/079/60/030/04/13/080
B001/B016

are Soviet.

ASSOCIATION: Institut organicheskoy khimii Akademii nauk SSSR (Institute of Organic Chemistry of the Academy of Sciences, USSR)

SUBMITTED: June 22, 1959

Card 3/3

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2

S/079/60/030/009/022/024/XX
B001/B066

AUTHORS: Shostakovskiy, M. F., Priezhayava, Ye. N., Tsymbal, [illegible] and Stolyarova, L. G.

TITLE: Stereochemistry of Addition Reactions to the Triple Bond

PERIODICAL: Zhurnal obshchey khimii, 1960, Vol. 30, No. 9, pp. 3143 - 3144

TEXT: There are no data available in publications on the stereochemistry of addition reactions of any reagents to the triple bonds of diacetylene or vinyl acetylene systems, nor on the stereochemistry of the reactions of homolytic addition of thiols to acetylenes. The authors indicate that the stereochemistry of reactions of diacetylene (I) with alkyl thiols (II) giving 1-alkyl-thiobuten-1-ines-3 (III) investigated previously by them, as well as of reactions of compounds (III) with (II) giving the 1,4-dialkyl-thiobutadienes-1,3 (IV), take place according to the scheme given here. The geometric structure (IV) follows from the sulfone structure (V) which was confirmed by means of

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2

Stereochemistry of Addition Reactions to the Triple Bond

S/079/60/030/009/022/022/XX
B001/B066

dipole moments, ultraviolet and infrared spectra, as well as by quantitative isomerization of the cis-cis and cis-trans compounds (V) into the trans-trans compounds (V), under the action of iodine. Thus, the thiols add stereospecifically in nucleophilic reactions with the C≡C bonds, both in diacetylene and vinyl acetylene systems, according to the rule of "trans-addition" (Ref. 2). Under free radical conditions the reaction does not proceed quite stereoselectively, so that mix tures of cis-cis and trans-trans isomers (IV) are formed at low temperatures. The predominance of (IV) indicates a high specific gravity of the cis addition of the radicals. At elevated temperatures, isomerization to the trans-trans compound (IV) occurs. It was also found that the reaction of ethanethiol with ethyl-thio ethine (VI) (Ref. 3) proceeds stereospecifically both under free radical and ionic conditions, and obeys the rule of "trans-addition", since (VII-cis) is the main product yielding the sulfone (VIII-cis). Under free radical conditions, thiols may react with various acetylene compounds stereo chemically in different ways. This is always due to the stability of one of the geometrical forms of the radical RSCH=CX which appears

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2

Stereochemistry of Addition Reactions to the Triple Bond

S/079/60/030/009/022/022/XX
B001/B066

as an intermediate. An analogous phenomenon of homolytic addition reactions of bromine and hydrogen bromide to acetylene was described in Ref. 4. There are 4 references: 2 Soviet, 2 US, and 1 Italian

ASSOCIATION: Institut organicheskoy khimii Akademii nauk SSSR (Institute of Organic Chemistry of the Academy of Sciences USSR)

SUBMITTED: May 30, 1960

Card 3/3

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2

[illegible]

[illegible] of β-arylcrydiethylsulfones. Izv. Sib. otd. [illegible] (MIRA 14:10)

[illegible] universitet i Irkutskiy institut [illegible] Sibirskogo otdeleniya [illegible]
(Sulfones)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2

SHORYGIN, P.P.; SHOSTAKOVSKIY, M.F.; PRILEZHAYEVA, Ye.N.; SHKURINA, T.N.; STOLYAROVA, L.G.; GENICH, A.P.

Structure and spectra of vinyl sulfides. Izv. AN SSSR. Otd.khim.nauk no.9:1571-1577 S '61. (MIRA 14:9)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR.
(Vinyl sulfide--Spectra)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2

KALABINA, A.V.; PRILEZHAYEVA, Ye.N.; YAKOVLEVA, Z.I.

Synthesis and transformations of vinyl aryl ethers. Report No.18: Addition of mercaptans to vinyl ethers of the aromatic series. Izv. Fiz.-khim. nauch.-issl. inst. Irk. un. 5 no.1: 193-206 '61. (MIRA 16:8)

(Ethers) (Thiols)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2

PRILEZHAYEVA, Ye.N.; TSYMBAL, L.V.; SHOSTAKOVSKIY, M.F.

Sulfoxides and sulfones. Part 2: Stereochemistry of the addition of thiols to triple bonds of diacetylene and 1-alkyl-1-thiobuten-3-ynes and properties of isomeric 1,4-dialkylsulfonyl-1,3-butadienes. Zhur.ob.khim. 31 no.8:2487-2496 Ag '61. (MIRA 14:8)

1. Institut organicheskoy khimii im. N.D. Zelinskogo Akademii nauk SSSR.
(Butadiyne) (Butenyne) (Butadiene)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2

SHOSTAKOVSKIY, M.F.; PRILEZHAYEVA, Ye.N.; TSYMBAL, L.V.; TOLCHINSKAYA, R.Ya.; STAROVA, N.G.

Sulfones and sulfoxides. Part 3: Comparative reactivity of α,β-unsaturated sulfoxides and sulfones to nucleophilic reagents. Zh. obshch. khim. 31 no.8:2496-2503 Ag '61. (MIRA 14:8)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR.
(Sulfoxide) (Sulfone)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2

S/020/61/138/005/018/025
B103/B220

25318

5.3620

AUTHORS: Prilezhayeva, Ye. N., Tsymbal, L. V., and Shostakovskiy, M. F., Corresponding Member AS USSR

TITLE: Comparative dienophilic reactivity in the series: vinyl sulfide — vinyl sulfoxide — vinyl sulfone

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 138, no. 5, 1961, 1122-1125

TEXT: In previous papers, it was proved by the authors that the electrophilic nature of the double bond in the series of sulfur-containing vinyl compounds increases from vinyl sulfide over vinyl sulfoxide to vinyl sulfone. In ionic reactions, reagents add to vinyl-alkyl sulfides in the presence of acid catalysts in strict accordance with Markovnikov's rule (M. F. Shostakovskiy et al. Ref. 1: Izv. AN SSSR, OKhN, 1955, 154; Sintez i nekoteryye svoystva tiovinilovykh efirov (synthesis and some properties of thiovinyl ester), N. I. Uvarova, Kand. dissertatsiya (candidate's thesis), IOKh AN SSSR, 1953). Therefrom the authors conclude that the sulfur atom in these vinyl compounds acts as an electron donor:

$$CH_2 = CH - \overset{\cdot\cdot}{S} - R,$$

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2

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B103/B220

Comparative dienophilic reactivity ... 25314

and that the double bond shows nucleophilic character just like that in oxygen vinyl esters. The HX reagents add to vinyl sulfoxides and sulfones merely under the influence of alkaline catalysts. Thereby, only $RSOCH_2CH_2X$ or $RSO_2CH_2CH_2X$ compounds are formed, and the associative activity of the nucleophilic reagent and, consequently, the electrophilic nature of the double bond increase from sulfoxide to sulfone. This indicates that the sulfonyl group is a much better electron acceptor than the sulfinyl group. The authors studied the variations of the reactivity of this series of compounds when used as dienophiles with one and the same diene. Cyclopentadiene (CP) and hexachlorocyclopentadiene (HCCP) were chosen as dienes. Up to the present, next to nothing has been known about the reactivity of vinyl-ethyl sulfoxide and, moreover, about the reactions occurring in the synthesis of diene in the presence of α,β-unsaturated sulfinyl compounds. The authors effected reactions between vinyl-ethyl sulfide, sulfoxide, and sulfone on the one hand, and CP or HCCP on the other, the conditions being as comparative as possible. They concluded from the results that the dienophiles mentioned from two reverse series with Cp and HCCP. As CP contains electropositive H atoms besides a diene system, reacts exothermically with vinyl-ethyl sulfone, and requires a

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2

25308

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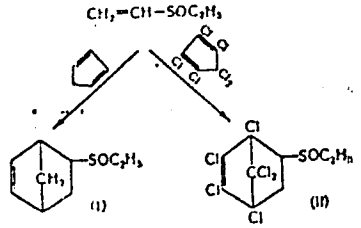
B103/B220

Comparative dienophilic reactivity...

longer heating with vinyl-ethyl sulfide, it may be seen that the activity for $CH_2=CHX$ increases in the order $X=RS < RSO \ll RSO_2$. With HCCP which has an electronegative chlorine at the double bond, the opposite dependence is found: $X=RS > RSO > RSO_2$; here, vinyl-ethyl sulfide exhibits the highest reactivity. It is concluded that the activity of diene synthesis depends on the interrelations between the polarization of the double bonds of diene and dienophile rather than on the character of polarization of the double bond of the dienophile. Thus, HCCP is bound to be active for dienophiles having electron donor substituents, whereas CP is active for dienophiles having electron acceptor substituents. The authors obtained only monoadducts of vinyl-ethyl sulfoxide (I,II) with both HCCP and CP



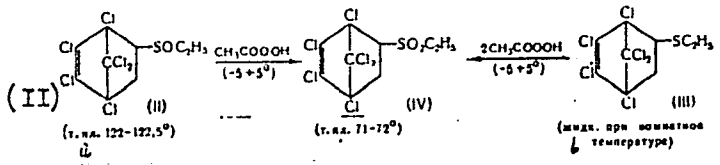
(I)

Card 3/5

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2

On reaction with CP a mixture of crystalline and liquid (I) is formed at a ratio of about 3:1. Apparently, the higher melting product has an endo-configuration, and Alder's rule is followed in this reaction. (II) is formed on reaction with HCCP; it has a definite melting point which is not changed by recrystallization. This indicates a steric homogeneity of (II). The adducts obtained from HCCP and vinyl-ethyl sulfide (III) as well as sulfoxide (II) give the same product (IV) as obtained from HCCP and vinyl-ethyl sulfone, under conditions excluding isomerization



(where a) melting point; b) liquid at room temperature). Recently, it has been proved by the authors and V. A. Azovskaya et al. (Ref. 11: ZhOKh, 31, No. 6 (1961)) that the reaction of divinyl sulfone with HCCP results in an exoadduct as primary product. In their opinion, the reason for this deviation from Alder's rule is the thermal izomerization of the corre-

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2

sponding endo-monoadduct to an exo-monoadduct. Apparently, the same rule holds in the present case. The adduct of vinyl-ethyl sulfide (III) (synthesized at room temperature) undergoes complete isomerization during fractionation of the reaction mixture. There are 1 table and 11 references: 8 Soviet-bloc and 3 non-Soviet-bloc. The two references to English-language publications read as follows: Ref. 7: K. Alder, XIV Intern. Congr. of Pure and Applied Chemistry, 1955; Ref. 9: Allen. J. Am. Chem. Soc., 62, 656 (1940).

ASSOCIATION: Institut organicheskoy khimii im. N. D. Zelinskogo Akademii nauk SSSR (Institute of Organic Chemistry imeni N. D. Zelinskiy of the Academy of Sciences USSR)

SUBMITTED: February 14, 1961

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2

PRILEZHAYEVA, Ye.N.; PETUKHOVA, N.P.; SHOSTAKOVSKIY, M.F.

Electrophylic addition of thioacetic acid to vinyl ethers.
Izv.AN SSSR Otd.khim.nauk no.4:728-729 Ap '62. (MIRA 15:4)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR.
(Ethers) (Acetic acid)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2

PRILEZHAYEVA, Ye.N.; TSYMBAL, L.V.; SHOSTAKOVSKIY, M.F.

Addition of diethylidithiophosphoric acid to vinylaryl sulfides and vinyl ethers. Izv.AN SSSR.Otd.khim.nauk no.9:1679-1681 S '62. (MIRA 15:10)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR.
(Phosphorodithoic acid) (Sulfides) (Ethers)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2

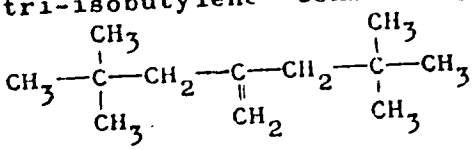
S/204/62/002/005/004/007
E075/E136

AUTHORS: Shostakovskiy, M.F., Prilezhayeva, Ye.N., and Mer, L.N.

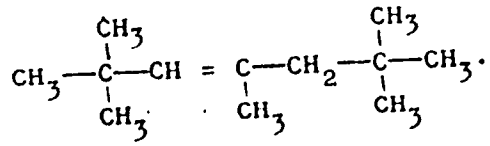
TITLE: Synthesis and properties of tertiary dodecanethiol from tri-isobutylene

PERIODICAL: Neftekhimiya, v.2, no.5, 1962, 735-738

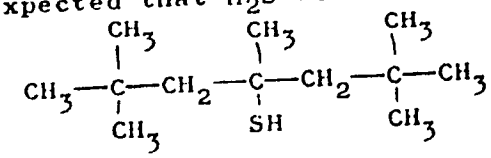
TEXT: The synthesis was carried out from "Butlerov tri-isobutylene" consisting of:



and



It was expected that H_2S would combine with these compounds to form



The best catalyst for this reaction was $BF_3 \cdot H_3PO_4$. The

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2

Synthesis and properties of tertiary... S/204/62/002/005/004/007
E075/E136

isobutylenes were agitated for 45 hours with an excess of liquid H_2S released from a sealed ampule and 40% $BF_3 \cdot H_3PO_4$ (in H_3PO_4) under 15-17 atm in an autoclave. The maximum yield of the thiol was 30-40%. Its vinyl derivative was prepared by heating to 145 °C with acetylene for 3 hours in the presence of powdered KOH in dioxane.
There is 1 table.

ASSOCIATION: Institut organicheskoy khimii AN SSSR im. N.D. Zelinskogo (Institute of Organic Chemistry AS USSR imeni N.D. Zelinskiy)

SUBMITTED: April 19, 1962

Card 2/2

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2

SHOSTAKOVSKIY, M.F.; PRILEZHAYEVA, Ye.N.; SVIRIDOVA, A.V.

Polymerization of vinyl ethyl sulfone under the effect of free radical initiating agents. Dokl. AN SSSR 146 no.4:837-839 O '62. (MIRA 15:11)

1. Institut organicheskoy khimii im. N.D. Zelinskogo AN SSSR. 2. Chlen-korrespondent AN SSSR (for Shostakovskiy).
(Sulfones) (Polymerization)
(Radicals (Chemistry))

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2

PRILEZHAYEVA, Ye.N.; SHOSTAKOVSKIY, M.F.

"Thiolation" reactions of ethylene derivatives. Usp.khim. 32 no.8:897-947 Ag '63. (MIRA 16:9)

1. Institut organicheskiy khimii AN SSSR imeni Zelinskogo.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2

GAL'PERN, G.D., doktor khim. nauk; PRILEZHAYEVA, Ye.N., doktor khim. nauk

International symposium on the chemistry of sulfur organic compounds in Czechoslovakia. Vest. AN SSSR. 34 no.11:100 N '64. (MIRA 17:12)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2

PRILEZHAYEVA, Ye.N.; PETUKHOVA, N.P.; SHOSTAKOVSKIY, M.F.

Reaction of [redacted]ic acid with vinyl esters. Dokl. AN SSSR 154 no.1:160-163 Ja'64. (MIRA 17:2)

1. Institut organicheskoy khimii im N.D. Zelinskogo AN SSSR.
2. Chlen-korrespondent AN SSSR (for Shostakovskiy).

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2

PRILEZHAYEVA, [illegible]

[illegible]

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2

PETLEZHAYEVA, Ye.N.; AZOVSKAYA, V.A.; [illegible], L.V.; [illegible], Ye.N.; ANDRIANOVA, G.; SHOSTAKOVSKIY, M.F.

Diene condensation of divinyl sulfone, sulfoxide, and sulfide with hexachlorocyclopentadiene. Zhur. obs. khim. 35 no.1:[illegible] Ja '65. (MIRA 18:2)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2

VASIL'YEV, G.S.; PRILEZHAYEVA, Ye.N.; BYSTROV, V.F.; SHOSTAKOVSKIY, M.F.

Structure of products of the reaction of (alkoxy) alkylthiobutenynes with phosphorus pentachloride. Zhur. ob. khim. 35 no.8:1350-1357 Ag '65. (MIRA 18:8)

1. Institut organicheskoy khimii imeni N.D. Zelinskogo AN SSSR.

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L 2024-66 EWT(1)/EWT(m)/EWA(b)-2 RO

ACC NR: AP5022132 UR/0030/65/000/008/0035/0039
581.14:58.04

AUTHOR: Prilezhayeva, Ye. N. (Doctor of chemical sciences)

TITLE: Physiologically active compounds for plant cultivation

SOURCE: AN SSSR. Vestnik, no. 8, 1965, 35-39

TOPIC TAGS: agriculture, hormone, scientific research, research program, defoliant agent, herbicide, wheat

ABSTRACT: The article surveys the work on these compounds being conducted in the various research and testing institutes of the SSSR and describes new compounds which appear promising. Research in plant hormones (gibberellin and quinine), defoliants, and herbicides is described. Antigibberellin was synthesized at the Chemical Institute, AN Moldavian SSR. Tested in wheat, it was found to reduce growth without affecting yield, and to increase resistance to beating down and decrease moisture requirements. For the second phytohormone, interesting new compounds of a structure simpler than kinetin with quinine-like properties have been found, but no synthesis was accomplished. In basic work by the Institute of Organic Chemistry, AN SSSR, more than 600 preparations for herbicides and defoliants were delivered for screening to the All-Union Institute for Plant Protection (1963-64). The Institute of Organic Chemistry of the Ukrainian SSR founded a new

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L 20214-66

ACC NR: AP5022132

laboratory for herbicide chemistry in 1964. The author feels that current research is stagnant and gives the following requirements for further development of physiologically active compounds: development of standards, a central testing center, search for new surfactants, a study of metabilism or regulators in the plant organism and their mechanism of action on several levels.(macroscopic, microscopic, plant development), and close contact between the various institutes. Orig. art. has: None.

ASSOCIATION: None.

SUBMITTED: 00 ENCL: 00 SUB CODE: LS, OC

NR REF SOV: 000 OTHER: 000

Card 2/2

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2

SHABANOVA, M.P.; KAGAN, Yu.S.; PRILEZHAYEVA, Ye.N.; TSYMBAL, L.V.; MAKHLINA, Ye.Ya.

Relationships between the structure of some esters of dialkyldithiophosphoric acids and their toxicity for arthropods and warm-blooded animals. Trudy VIZR no. 21 pt.1:114-125 '64. (MIRA 18:12)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2

L 29293-66 EWP(j)/EWT(m)/T RM

ACC NR: AP6019317 SOURCE CODE: UR/0079/65/035/008/1350/1357

AUTHOR: Vasil'yev, G. S.; Prilezhayeva, Ye. N.; Bystrov, V. F.; Shostakovskiy, M. F.

ORG: Institute of Organic Chemistry im. N. D. Zelinskiy, AN SSSR (Institut organicheskoy khimii AN SSSR)

TITLE: Structure of products of the reaction of (alkoxy)alkylthiobutenynes with phosphorus pentachloride

SOURCE: Zhurnal obshchey khimii, v. 35, no. 8, 1965, 1350-1357

TOPIC TAGS: phosphorus chloride, chemical reaction, proton resonance, organic sulfur compound

ABSTRACT: Synthesis by other methods and study of proton magnetic resonance spectra indicated that addition of PCl_5 to 1-alkylthio-(alkoxy)butenynes takes place at the triple carbon-carbon bond with the formation of chlorides of 1-alkylthio(alkoxy)-3-chlorobutadiene- 1,3,4-phosphinic acids. It was established for the first time that addition of alcohols to diacetylene under the conditions of a nucleophilic reaction proceeds stereospecifically with the formation of cis-1-alkoxybutenynes. The reaction of diacetylene with one molecule of a thiol (MeSH) under nucleophilic conditions also resulted in a product (1-Me-thiobutenyne) with a cis-structure. It was shown that in products of the addition of PCl_5 to

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2

L 29293-66

ACC NR: AP6019317

1-alkylthio(alkoxy)butenynes the hydrogens at 1-C and 2-C are in a trans-position to each other. A mechanism of electrophilic interaction between PCl_5 and 1-alkylthio(alkoxy)butenynes is proposed which explains the cis-trans-isomerization that takes place in its course. Orig. art. has: 4 figures, 5 formulas, and 1 table. [JPRS]

SUB CODE: 07, 20 / SUBM DATE: 29Jun64 / ORIG REF: 007 / OTH REF: 010

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2

PRILESHAYEVA, Ye.N., [illegible]

Physiologically [illegible] compounds for plant growing. Vest.AN SSSR 35 no.8:35-[illegible] Ag '65. (MIRA 18:8)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2

PRILEZHAYEVA, Ye.P.; PETUKHOVA, N.P.; SHOSTAKOVSKIY, M.F.

Reaction of dichlorocarbenes with vinyl sulfides. Dokl. AN SSSR 144 no.5:1059-1061 Je '62. (MIRA 15:6)

1. Institut organicheskoy khimii imeni N.D.Zelinskogo AN SSSR.
2. Chlen-korrespondent AN SSSR (for Shostakovskiy).
(Methylene) (Sulfides)

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2

PRILIP.N.P., starshaya akusherka.

Head midwife's work. Fel'd. i akush. 28. no.5:49-50 My '63. (MIRA 16:7)

(MIDWIVES)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2

1. PRILIPA, N.

2. USSR (600)

4. Coal-Mining Machinery

7. Successful mastery of the UKMG-1 coal digger-and-loader, Mast.ugl. 2 no. 2 1953.

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

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2

TERESHCHENKO, P.; SHAPOVAL, I.; GERMAN, D.; PRILIPCHUK, S.; ATAMANCHUK, I.

Yes, the whole matter is in ability. Grazhd. av. 21 no.8:12-13 Ag '64. (MIRA 18:4)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2

BERESLAVETS, F.G., inzh.; ZINENKO, A.G., inzh.: KUNIN, I.K., inzh.; GRIBANOV, I.P., inzh.; PRILIPENKO, Ye.D., inzh.

Iron ore haulage out of the stope by vibrating conveyers. Met. i gornourd. prom. no.3:83-85 My-Je '62. (MIRA 15:9)
(Conveying machinery)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2

PRILIPENKO, Ye.D., gornyy inzh.

Expedient limits for the use of hard ore breaking by deep boreholes or by blasting charges. Gor.zhur. no.7: 47-50 Jl '60. (MIRA 13:7)

1. Nauchno-issledovatel'skiy gornorudnyy institut, Krivoy Rog.

(Mining engineering)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2

RIVKIN, I.D. (Krivoy Rog); SHOSTAK, A.G. (Krivoy Rog); KUYEVDA, K.I. (Krivoy Rog); PRILIPENKO, Ye.D. (Krivoy Rog)

New innovation in the method of sublevel caving. Gor.zhur. no.2: 22-26 F '61. (MIRA 14:4)

(Mining engineering)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2

PRILIPKO, G.

On thin seams. Mast. ugl. 5 no.8:9 Ag '56. (MLRA 9:11)

1. Mashinist kombayna shakhty "TSentral'no-Zavodskaya" Glavyuzhdonbassuglya.
(Donets Basin--Coal mines and mining)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2

ROZANOVICH, [illegible]; [illegible], I.F.; [illegible], M.G.

New data on gas reservoirs in the lower anhydrite horizon of the Shebelinka field. Neftegaz. geol. i geofiz. no.3: 32-36 '65. (MIRA 18:7)

1. Khar'kovskaya promyslovo-geofizicheskaya ekspeditsiya.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2

PANKRATOV, V.I.; PRILIPKO, I.T.

Contactless automatic beta-ray gage. Bum. prom. 33 no. 7:11-14 Jl '58. (MIRA 11:7)

1. Ukrainskiy nauchno-issledovatel'skiy institut tsellyuloznoy i bumazhnoy promyshlennosti.
(Beta rays--Industrial applications)
(Paper)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2

PANKRATOV, V.I.; PRILIPKO, I.T.

Electrodynamic capacitor-modulator of weak direct currents.
Izm. tekh. no.12:30-32 D '63. (MIRA 16:12)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2

PHILIPKO, I.T., inzh.; FRIDMAN, M.Z., inzh.

Determination of cardboard resistance to punching. Bum.prom. 36 no.5:21 My '61. (MIRA 14:5)

1. Ukrainskiy nauchno-issledovatel'skiy institut tsellyuloznoy i bumashnoy promyshlennosti.
(Cardboard)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2

PRILIPKO, I.T.

Use of radiant energy in the paper industry. Bum. i der. prom. no.3: 50-53 Jl-S '64. (MIRA 17:11)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2

USSR / Meadow Cultivation..

L

Abs Jour : Ref Zhur - Biologiya, No 6, 1959, No. 24743

Author : Tutyak, V.; Prilipko, L.
Inst : Not given
Title : Concerning the Productivity Increase of Azerbaydzhan's Pastures

Orig Pub : Sotz. s.-kh. Azerbaydzhana, 1958, No 4, 42-46

Abstract : The characteristics of the hay harvests and pastures of Azerbaydzhan are determined. It is reported that successful experiments of bogar [a designation for crops cultivated in Central Asia without artificial irrigation] sowings of broad-spiked wheat, woolly-pod vetch, wheat mixed with alfalfa and Caucasian esparcet were conducted on certain

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2

PRILIPKO, L. I.

30242

Ekspozitsiya flory kavkaza. Byullyetyen' Glav. botan sada, vyp. 3, 1949, s. 20-24

SO: LETOPIS' NO. 34

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2

38199. PRILIPKO, L. I.

Usloviya razvitiya zelenykh nasazhdeniy na territorii Mingechaurskogo gidrouzla. (Rabota Botan. in-ta Akad. nauk Azerbaydzh. SSR). Byulleten' Glav. botan. sada, vyp. 4, 1949, s. 58-59

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2

[illegible]

[illegible], [illegible]. "The selection of a variety of arborescent plants [illegible] for the formation of forest-shelter belts in the Nakhichevan ASSR," Izvestiya [illegible] nauk. Azerbaydzh. SSR, 1949, No. 5, p. 28-33, (Resume in Azerbaijani), - Bibliog: 5 items

SO: U-5240, 17, Dec. 53, (Letopis 'Zhurnal 'nykh Statey, No. 25, 1949).

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2

PRILIPKO, L. I.

Prilipko, L. I. - "Results of studies of systematic pastures of the Shirvan Steppe in the Azerbaijan SSR", Trudy Botan. in-ta (Akad. nauk Azerbaydzh. SSR), Vol. XII, 1949, p. 3-46, (Resume in Azerbaijani).

SO: U-4110, 17 July 53, (Letopis 'Zhurnal 'nykh Statey, No. 19, 1949).

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2

PRILIPKO, L. I.

Lesnaia rastitel'nost' Azerbaidzhana [Forest fauna of Azerbaijan]. Baku, Izd-vo, AN Az SSSR. Part 1, 1952. 88 p.

SO: Monthly List of Russian Accessions, Vol. 6, No. 5, August 1953

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2

PRILIPKO, Leonid Ivanovich

Forest vegetation of Azerbaijan. Baku Izd-vo Akademii nauk Azerbaidzhanskoi SSSR, 1954. 488 p. (55-[illegible])

1. Forests and forestry - Azerbaijan.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2

AKHUNDOV, I.F.; ISAYEV, Ya.M.; KARYAGIN, I.I.; PHILIPKO, L.I.; RZAZADE, R.Ya.; VASILEVSKIY, Ya.B., redaktor; MURDZHAFAROV, A.M., tekhnicheskiy redaktor.

Rosaceae-Leguminosae. Flora Azerb. 5:5-579 '54. (MLRA 9:9)

(Azerbaijan--Rosaceae) (Azerbaijan--Leguminosae)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2

AKHUNDOV, G.F., kandidat biologicheskikh nauk; ISAYEV, Ya.M., kandidat biologicheskikh nauk; KARYAGIN, I.I.; PRILIPKO, L.I., doktor biologicheskikh nauk; RZAZADE, R.Ya., doktor biologicheskikh nauk; VASILEVSKIY, Ya.B., redaktor izdatel'stva

[Flora of Azerbaijan] Flora Azerbaidzhana. Baku, Izd-vo Akad.nauk Azerbaidzhanskoi SSR. Vol.7. Pyrolaceae - Plantaginaceae. 1957. 646 p. (MLRA 10:8)

(Azerbaijan--Botany)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2

PRILIPKO, L.I.

Development and achievements of geobotany in Azerbaijan during the past 40 years. Izv. AN Azerb. SSR. Ser. biol. i med. nauk no. 2:61-65 '60. (MIRA 13:10)

(AZERBAIJAN—PHYTOGEOGRAPHY)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2

VASIL'YEV, A.V.; GULISASHVILI, V.Z., akademik; DMITRIYEVA, A.A.; DOLUKHANOV, A.G.; MATIKASHVILI, V.I.; MAKHATADZE, L.B.; MULKIDZHANYAN, Ya.I.; ~~PRILIPKO, L.I.;~~ SAKHOKIA, M.F.; MIRZASHVILI, V.I., red.; AVALIANI, N.M., red. izd-va; TODUA, A.R., tekhn. red.

[Trees of the Caucasus; wild and cultivated trees and shrubs] Dendroflora Kavkaza; dikorastushchie i kul'turnye derev'ia i kustarniki. Tbilisi, Izd-vo Akad. nauk Gruzinskoi SSR. Vol.2. [Angiosperms. Dicotyledons] Angiospermae - Pokrytosemennye. Dicotyledoneae. Dvudol'nye. 1961. 334 p. (MIRA 15:2)

1. Akademiya nauk Gruzinskoy SSR, Tiflis. Institut lesa.
2. Akademiya nauk Gruzinskoy SSR, Tiflis (for Gulisashvili).
(Caucasus--Angiosperms) (Caucasus--Dicotyledons)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2

ASKEROVA, R.K.; AKHUNDOV, G.F.; ISAYEV, Ya.M.; KARYAGIN, I.I.; PRILIPKO, L.I.; SOFIYEVA, R.M. Prinimali uchastiye: KUTATELADZE, A.; MANDENOVA, I.P.; LINCHEVSKIY, I.A.; POBEDIMOVA, Ye.G.; POYARKOVA, A.I.; FEDOROV, An.A.; KHARADZE, A.L.; YUKSIP, A.Ya.; VARUNTSYAN, I., red. izd-va; POGOSOV, V., tekhn. red.

[Flora of Azerbaijan] Flora Azerbaidzhana. Baku, Izd-vo Akad. nauk Azerbaidzhanskoi SSR. Vol.8. Rubiaceae - Compositae. 1961. 688 p. (MIRA 14:11)

(Azerbaijan--Dicotyledons)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2

PRILIPKO, L.I.

Outlook for a display of the Caucasian flora and vegetation at the botanical garden of the republic (Baku, Apsheron Peninsula). Izv. AN Azerb. SSR. Ser. biol. i med.nauk no.9:11-15 '61. (MIRA 14:12)

(BAKU--BOTANICAL GARDENS)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2

PRILIPKO, L.I.

New vegetation map of Azerbaijan. Dokl.AN Azerb.SSR 17 no.4:327-330 '61. (MIRA 14:6)

1. Institut botaniki AN AzerSSR. Predstavleno akademikom AN Azerbaydzhanskoy SSR V.R. Volobuyevym.
(Azerbaijan--Phytogeography--Maps)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2

SAFAROV, Ibragim Safarovich; PRILIPKO, L.I., red.

[Main Tertiary tree relicts of Azerbaijan] Vazhneishie drevesnye tretichnye relikty Azerbaidzhana. Baku, Izd-vo Akad. nauk Azerbaidzhanskoi SSR, 1962. 311 p. (MIRA 15:5)
(Azerbaijan--Trees, Fossil)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2

PRI[illegible], L.I.; ZANGIYEV, M.G.

Forests of the Khachmas Low and and the ways for their [illegible] utilization. Izv. AN Azerb. SSR. Ser. biol. i med. nauk no. [illegible] 8 '63. [illegible]

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2

ALIYEV, R.A.; GADZHIYEV, V.D.; ISAYEV, Ya.M.; MAILOV, A.I.; NABILI, D.G.; PRILIPKO, L.I.

[Improvement and efficient use of winter and summer pastures in Azerbaijan] Uluchshenie i ratsional'noe ispol'zovanie zimnikh i letnikh pastbishch Azerbaydzhana. Baku, Izd-vo AN Azerbaidzhanskoi SSR, 1965. 45 p. (MIRA 18:12)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2

ABUTALYBOV, [illegible] PRILIPKO, [illegible] red. [illegible] M.A., [illegible]

[Problems of [illegible] experimental [illegible] nol botanik. Pa[illegible] [illegible] 85 p. [illegible]

1. Akadem[illegible] Azerb[illegible] Inst[illegible] tanik.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2

KHALILOV, A.G., red.; PRILIPKO, L.I., red.; MAMED-ZADE, M.D., red.; NAZIROVA, B.T., red

[Flash floods in the Kishchay River basin and measures for their control] Selevye iavleniia basseina r. Kishchai i meropriiatiia po bor'be s nimi. Baku, Izd-vo AN Azerb.SSR, 1965. 138 p. (MIRA 18:10)

1. Akademiya nauk Azerbaydzhanskoy SSR, Baku. Sovet po izucheniyu proizvoditel'nykh sil.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2

PRILIPKO, L.I.; SHCHERBAKOV, A.N.

Gomphocarpus fruticosus (L.) an accidental plant of African origin on the Apsheron Peninsula. Dokl. AN Azerb. SSR 19 no.3: 57-59 '63. (MIRA 17:8)

1. Institut pochvovedeniya i agrokhimii AN AzSSR i Institut botaniki AN AzSSR. Predstavleno akademikom AN AzSSR V.R. Volobuyevym.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2

PRILIPKO, L.I., MAILOV, A.I.

New find of relict poplar-turanga in Azerbaijan. Izv. AN Azerb. SSSR. Ser. biol. i med. nauk no. 6:3-14 '63. (MIRA 17:6)

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VASIL'YEV, A.V.; DMITRIYEVA, A.A.; MAKHATADZE, L.B.: MIRZASHVILI, V.I.; MULKIDZHANYAN, Ya.I.; PRILIPKO, L.I.; RUKHADZE, P.Ye.; SAKHOKIA, M.F.; SKHIYEREELI, V.S.; GULISASHVILI, V.Z., akademik, red.; AVALIANI, N.M., red.izd-va; BOKERIYA, E.N., tekhn. red.

[Woody plants of the Caucaus; wild and cultivated trees and shrubs] Dendroflora Kavkaza; dikorastushchie i kul'turnye derev'ia i kustarniki. Tbilisi, Izd-vo AN Gruz.SSR. Vol.3. [Angiospermae; Dicotyledoneae; Moraceae (mulberry family) - Platanaceae (plane-tree family)] Dendroflora Kavkaza; dikorastushchie i kul'turnye derev'ia i kustarniki. Tbilisi, Izd-vo AN Gruz.SSR. (MIRA 16:12)

1. Akademiya nauk Gruzinskoy SSR, Tiflis. Institut lesa. AN Gruzinskoy SSR (for Gulisashvili).
(Caucasus—Woody plants)

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PRILIPKO, L.I.; ALIYEV, R.A.; BOGDANOV, M.P.; GADZHIYEV, B.D.; MAILOV, A.I.

Outlook for the utilization of natural resources of the ditch reed and the giant reed in the paper and cellulose industries of Azerbaijan. Izv. AN Azerb. SSR. Ser.biol. i med.nauk no.7: 3-13 '61. (MIRA 16:7)

(AZERBAIJAN--REED(BOTANY)) (PAPER INDUSTRY)
(CELLULOSE INDUSTRY)

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2

GADZHIYEV, V.D.; ISAYEV, Ya.M., doktor biol. nauk, retsenzent; ALIYEV, R.A., kand. biol. nauk, retsenzent; PRILIPKO, L.I., doktor biol. nauk, prof., red.; DEMENT'YEVA, L., red.izd-va; IBRAGIMOV, M., tekhn. red.

[Greater Caucasus within Subalpine vegetation of the Azerbaijan S.S.R.] Subal'piiskaia rastitel'nost' Bol'shogo Kavkaza; v predelakh Azerbaidzhanskoi SSR. Baku, Izd-vo Akad. nauk Azerbaidzhanskoi SSR, 1962. 170 p. (MIRA 16:4)
(Azerbaijan—Alpine flora)

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2

PRILIPKO, L.I.; GADZHIYEV, V.D.

Contemporary natural vegetation of the Kishchay River basin, its utilization and condition. Trudy Inst. bot. AN Azerb. SSR 23:87-105 '62. (MIRA 16:2)
(Kishchay Valley—Botany)

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PRILIPKO, L.I.; ALIZADE, M.M.

Arundo plantations in Azerbaijan. Vest.Bot.sada AN Gruz.SSR no.67:115-122 '61.
(Azerbaijan--Reed (Botany)) (MIRA 15:7)

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2

PRILIPKO, L.T.; KURILENKO, O.D.

Mechanism of the reaction of polyelectrolytes with suspensions. Trudy KTIPP no.25:31-36 '62. (MIRA 16:5)
(Polyelectrolytes) (Suspensions(Chemistry)) (Flocculation)

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2

KURILENKO, O.D.; PRILIPKO, L.T.; MIKHALYUK, R.V.

Interaction of polyacrylamide with bentonite suspensions. Izv.vys.-ucheb.zav.;khim. i khim.tekh. 6 no.2:248-251 '63. (MIRA 16:9)

1. Kiyevskiy tekhnologicheskiy institut pishchevoy promyshlennosti, kafedra fizicheskoy, kolloidnoy i analiticheskoy khimii.
(Acrylamide) (Bentonite)

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2

PRILIPKO, L.T.; KURILENKO, O.D.

Effect of polyelectrolytes on the stability of aqueous suspensions of bentonites. Ukr. khim. zhur. 31 no.4:376-378 '65.

(MIRA 18:5)

1. Kiyevskiy tekhnologicheskiy institut pishchevoy promyshlennosti.

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001343020015-2

PRILIPKO, L.T.; KURILENKO, O.D.

Technical application of polymer flocculants. Trudy KTIPP no.25: 27-31 '62. (MIRA 16:5)
(Polymers) (Flocculation)

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