"APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001549910019-2

SHOSTAKOVSKIY, M.F

USSR/ Chemistry - Organic chemistry

Card 1/1 Pub. 40 - 20/26

Authors

* Shostakovskiy, M. F., and Gladyshevskaya, V. A.

Title

Polymerization of vinyl compounds. Part 2. Multistage synthesis of polyvinylethyl ether

Periodical : Izv. AN SSSR. Otd. khim. nauk 2, 344 - 349, Mar-Apr 1955

Abstract

: The accomplishment of a multistage synthesis of numerous ethoxy compounds including the dimer and hexamer is announced. It is pointed out that the multistage synthesis was not concluded with the formation of above mentioned ethoxy compound; after the formation of the hexamer the reaction mixture was found to contain products with a molecular weight much higher than that of the hexamer. However, these compounds could not be separated in individual form because they decomposed during distillation. Eight references: 6 USSR

and 2 USA (1935-1955). Table.

Institution: Acad. of Sc., USSR, The N. D. Zelinskiy Inst. of Organ. Chem.

: Pecember 30, 1953 Submitted

SHOSTAKOVSKIY, M.F.

USSR/ Chemistry - Organic chemistry

Card 1/1 Pub. 40 - 21/26

Authors : Shostakovskiy, M. F.; Zhebrovskiy, V. V.; and Medelyanovskaya, M. A.

Title Reaction of vinyl and polyfunctional compounds. Part 4. Reaction of vinylalkyl ethers with glycerin, 1,2-glycerin and 1,3-glycerinacetals

Periodical : Izv. AN SSSR. Otd. khim. nauk 2, 350 - 353, Mar-Apr 1955

* The reaction of vinylalkyl ethers with glycerin, 1,2-glycerin and 1,3-glycerinacetals was investigated in the presence of hydrochloric acid. The reaction products obtained and their properties are described. The synthesis of hitherto unknown 1,3-glycerinacetal-2-butoxyacetal from 1,3-glycerinacetal and vinylbutyl ether is discussed. Two USSR refer-

ences (1954).

Institution: Acad. of Sc., USSR, The N. D. Zelinskiy Inst. of Organ. Chem.

Submitted: January 13, 1954

"APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001549910019-2

SHOETALOVSKIY,

USSR/ Chemistry - Organic chemistry

Card 1/1

Pub. 40 - 22/26

Authors

Shostakovskiy, M. F.; Zhebrovskiy, V. V.; and Medelyanovskaya, M. A.

Title

THE RESERVE THE PARTY OF THE PA Reaction of vinyl and polyfunctional compounds. Part 5. Reaction of

trivinylglycerin ether with monoatomic alcohols

Periodical : Izv. AN SSSR. Otd. khim. nauk 2, 354 - 358, Mar-Apr 1955

Abstract

The reaction of trivinylglycerin ether with monoatomic alcohols was investigated by utilizing the glycerin ether in the role of a polyfunctional vinyl ether and ethyl and butyl alcohols in the role of monoatomic alcohols. The products obtained from this reaction (acetals) were found to be identical to the acetals obtained during the reaction of vinylethyl and vinylbutyl ethers with glycerin. The structure of the glycerin acetals is

described. Eight references: 6 USSR and 2 USA (1928-1955).

Institution: Acad. of Sc., USSR, The N. D. Zelinskiy Inst. of Organ. Chem.

Submitted

: January 13, 1954

SHOSTAKOVSKIY, M.F.; SIDEL'KOVSKAYA, F.P.; ZKLKNSKAYA, M.G.; MORGUNOVA, Ye.S.

Polymerization of vinyl lactams. Soob.o nauch.rab.chl.VKHO
no.3:5-8 '55. (MIRA 10:10)

(Polymerization) (Lactams)

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

Free radical polymerization and copolymerization of thiovinyl
esters. Soob.o nauch.rab.chl.VKHO no.3:21-24 '55. (MIRA 10:10)
(Polymerization) (Vinyl alcohol)

SHOSTAKOVSKIY, M.F.; GLADYSHEVSKAYA, V.A.

Studies in the field of polymerization of vinyl compounds. Soob.o

(MIRA 10:10)

(Polymerization)

(Vinyl compounds)

SHOSTAKOVSKIY, M.F.; BATUYEV, M.I.; CHEMULAYEVA, I.A.; MATVEYEVA, A.D.

Optical study of certain ethanolamine vinyl ethers. Izv.AN
SSSR. Otd.khim.nauk no.3:544-550 My-Je '55. (MIRA 8:9)

1. Institut organicheskoy khimii imeni N.D.Zelinskogo Akademii
nauk SSSR. (Vinyl ethers) (Ethanol)

SHOSTAKOVSKIN M.F.	
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	Most Effective Catalysts in the Reaction of Combining Hy-
	Rule O pnibolee enektivnyka kutatizatoraka v trastica
	Oprisoedinenila serovodoroda k prostym viailovym efiram Oprotiv pravila Markovnikova. (Russian.) M. F. Shostakovskii, E. N. Prilozbanya, and E. S. Shapiro. Izcestiia ukademiti nauk
	E. N. Prilezhaeva, and E. S. Shapiro. Izcestiia ukadentti nauk SSSR, otdelenie khimteheskikh nauk, 1955, no. 4, July-Aug., p. 734-741.
	Includes tables, 17 ref.
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SHOSTAKOVSKIY, M.F.; KOCHKIN, D.A.; ROG, V.M.

Investigation into the synthesis and conversion of organic silicon compounds which contain oxygen. Part 2. The reactions of diethyland diphenylsilan diols with vinyl ethers. Izv. AN SSSR. Otd.khim. nauk no.5:953-955 S-0 '55. (MIRA 9:1)

1.Institut organicheskoy khimii imeni N.D.Zelinskogo Akademii nauk SSSR. (Vinyl ethers) (Silanediol)

SHOSTAKOVSKIY, M.F.; SHIKHIYEV, I.A.; KOMAROV, N.V.

Research in the field of synthesis and conversion of silicon organic compounds containing oxygen. Dokl.AN Azerb.SSR 11 no.11; 757-763 '55. (MLRA 9:5)

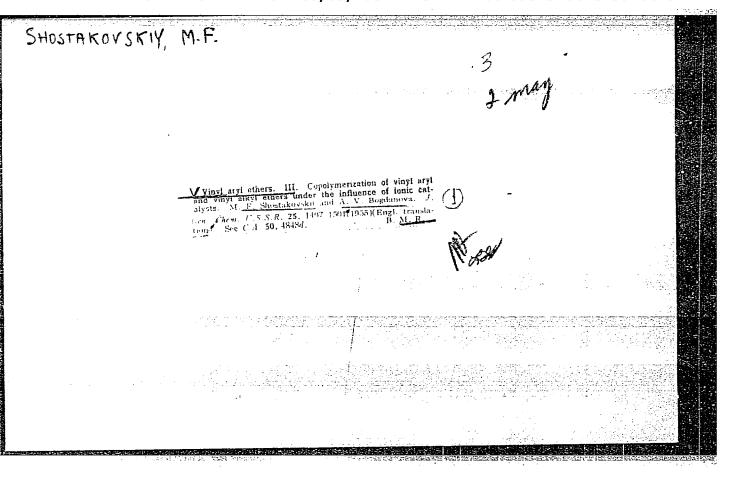
1. Institut organicheskoy khimii imeni N.D. Zelinskogo AN SSSR. Predstavleno deystvitel nym chlenom AN Azerbaydzhanskoy SSR Yu.G. Mamedaliyevym.

(Silicon organic compounds)

SHOSTAKOVSKIY, M.F.; KOCHKIN, D.A.; SHIKHIYEV, I.A.; VLASOV, V.M.

Investigation in the field of oxygenated silicon organic compounds. Part 7. Synthesis and certain conversions of silanols. Zhur.ob. Khim. 25 no.3:622-626 Mr 155. (MLRA 8:7)

 Institut organicheskoy khimii Akademii nauk SSSR. (Silanol)



SHOZTAKOVSKIY. M.F.

USSR/Chemistry

Card

1/1

Authors

Title

Shoztakovskiy, H. F., Thebrovskiy, V. V., and Medelyanovskaya, M. A.

Study of the reaction of vinyl and polyfunctional compounds. Part 2.-

Reaction of vinyl ethers with polyvinyl alcohol.

Periodical

Izv. AN SSSR, Otd. Khim. Nauk, 3, 535 - 540, May - June 1954

Abstract

The reaction of polyvinyl alcohol with vinyl butyl and vinyl phenyl ethers was investigated at different component ratios. The reaction process which leads to the formation of polyacetals of polyvinyl alcohol, and the stages of formation of mixed acetals with their consequent cyclication, are explained in detail. The differences between the analytical and calculated data concerning the elementary composition of the polyacetals are explained by the nature of the macromolecular substances.

Seven references: 6 USSR, 1 USA, Table.

Institution : Acad. of Sc. UESR, The N. D. Zelinskiy Institute of Org. Chemistry

Submitted

: Harch 25, 1953

SHUSTAKOVSKIY,	M.F
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	and adjusting of viryl aryl
•	Vinyl aryl ethers. III. Copolymerization of vinyl aryl and vinyl alkyl ethers under the influence of ionic catalysts.
	M. F. Shostakovskil and A. Massay Zhur Obshches
	Khim. 25, 1830-0(1800). At n OCK CH, if the catalyst
	employed for the reaction is the occurrence and be
	MC1CC4H10CH CHI Here have mobility and is exo-
	of the inonomicis. The seneral in Mac(1)
•	BuOH, BiOH, MeOII, MeoIII, MeoIII at the products are generally
	tabular form. The mol. wts. of the production of
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TODOSIA NOVSKIY, PA TO

Subject

: USSR/Chemistry

Card 1/1

Pub. 152 - 14/19

Authors

: Shostakovskiy, M. F., V. V. Zhebrovskiy, and B. A.

Aronov

Title

: Copolymerization of vinyl butyl ether with vinyl

chloride

Periodical : Zhur. prikl. khim. 28, 10, 1123-27, 1955

Abstract

: The copolymerization of vinyl butyl ether and vinyl isobutyl ether with vinyl chloride was carried out in a water emulsion in an autoclave in the presence of ammonium persulfate at 30 and 50°C. Four tables, 6 references, 5 Russian (1949-53).

Institution: None

Submitted : F 17, 1954

KASATOCHKIN, V.I.; SHOSTAKOVSKIY, M.F.; ZIL'BERBRAND, O.I.; KOCHKIN, D.A.

Hydrogen linkage in silanols. Zhur.fiz.khim. 29 no.4:730-733 Ap '55.

(HIRA 8:8)

1. Akademiya nauk SSSR, Institut organicheskoy khimii. (Silanol)

SHOSTAKOVSKIY, M.F.; SIDEL'KOVSKAYA, F.P.; SHAPIRO, E.S.

Polymerization of the vinyl isepropyl and vinyl cyclohexyl ethers under the influence of 2,2'-azo bisnitrile of isobutyric acid. Izv. AN SSSR.Otd.khim.nauk 86 no.6:1085-1089 My '55. (MLRA 9:4)

1. Institut organicheskoy khimii imeni N. D. Zalinskogo Akademii nauk SSSR. (Ethers) (Nitriles)

SHOSTAKOUSKIY, M.F. USSR/Chemistry - Organic chemistry

Card 1/1

Pub. 22 - 23/50

Authors

\$ Shostakovskiy, M. F., and Bogdanova, A. V.

Title

1 Study of vinyl aryl ethers. Reaction of vinylphenyl ether with dibutyl

acetal

Periodical : Dok. AN SSSR 100/1, 89-92, Jan 1, 1955

Abstract

Investigations were conducted to determine the reactivity of vinyl aryl ethers during contact with compounds containing active hydrogen. Results indicate that vinylphenyl ether will react with dialkyl acetals leading to the formation of alkoxyphenoxyalkanes with a carbon chain of various length. A study of phenoxydibutoxybutane hydrobysis products and 1.1.3tributoxybutane and butylphenyl acetal formed during the basic synthesis led to a conclusion that this reaction is also followed by the separation of the alkoxy-acetal group. Seven references: 5 USSR and 2 USA (1949-

1954).

Institution : Acad. of Sc., USSR., The N. D. Zelinskiy Institute of Organic Chemistry

Presented by : Academician I. N. Nazarov, June 24, 1954

ShOSTAKOVSKIY, M.F.

USSR/ Chemistry - Organic chemistry

Card 1/1

Pub. 22 - 24/52

Authors

Title

Shostakovskiy, M. F.; Kondratyev, Kh. I.; and Belyayev, V. I.

_

Synthesis and conversion of oxygen-containing silico-organic compounds

Periodical :

Dok. AN SSSR, 100/2, 287-290, Jan 11, 1955

Abstract

Experimental data are presented regarding the synthesis of n-butyl-, iso-butyl-, secondary-butyl-, and tertiary-butyldimethylphenylsilaneacetals. A study was made of the chemical properties of mixed silico-organic acetals, i. e. acetals containing alcohol and silanol radicals, and it was found that they are much closer to the alkylaryl acetals and that their symetrization is accompanied by a series of other reactions. The presence of a tautomerism in silico-organic acetals was established by their thermal decomposition characteristics. Ten USSR references (1963-1954).

Acad. of Sc. USSR, The N. D. Zelinskiy Institute of Organic Chemistry

Institution Presented by:

Academician B. A. Kamanckiy, July 19, 1954

SHUSTAKOVSKIY, M.F.

USSR/Chemistry - Organic chemistry

Card 1/1

Pub. 22 - 25/45

Authors

Shostakovskiy, M. F.; Gershteyn, N. A.; and Neterman, V. A.

Title

Reaction of benzoyl peroxide with vinyl ethers

Periodical

Dok. AN SSSR 103/2, 265-268, Jul 11, 1955

Abstract

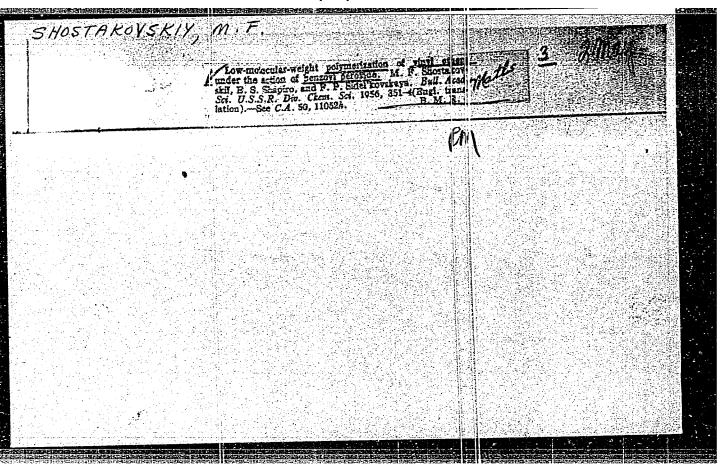
Investigation was conducted to determine the reaction between benzoyl peroxide and vinyl ether and to establish the characteristics of the liquid phase and the composition of the gaseous phase. It was found that vinyl ethers react well with benzoyl peroxide forming acylali addition products. The reaction products obtained during low peroxide concentration were found to be low molecular vinyl ether polymers similar to telemers. Twelve references: 8 USSR, 3 USA and 1 German (1925-1954). Tables; graph.

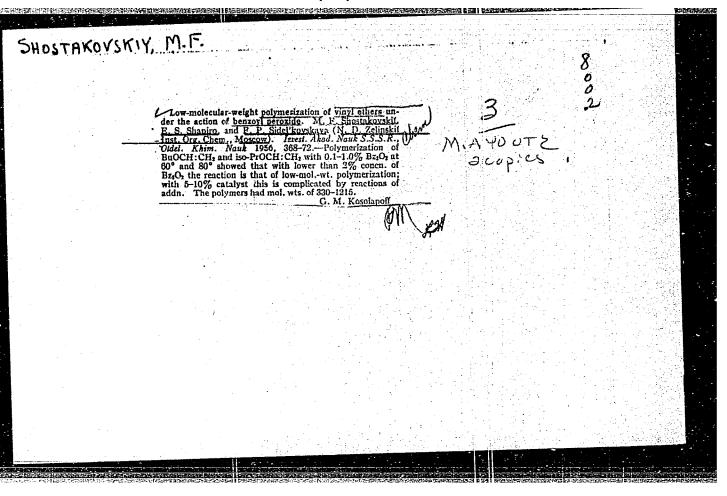
Institution :

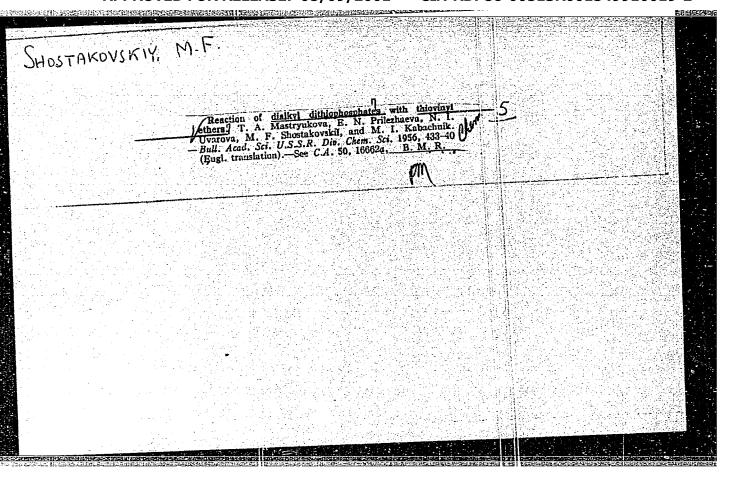
Acad. of Sc., USSR, Inst. of Crga. Chem. im. H. D. Zelinskiy

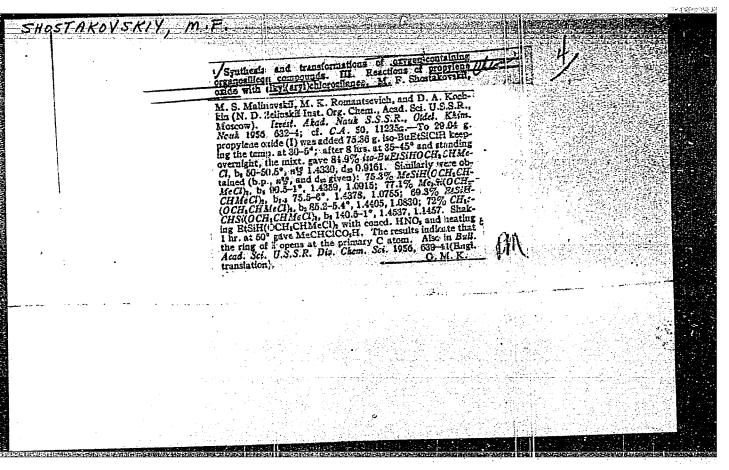
Presented by :

Academician B. A. Kazanskiy, February 16, 1955



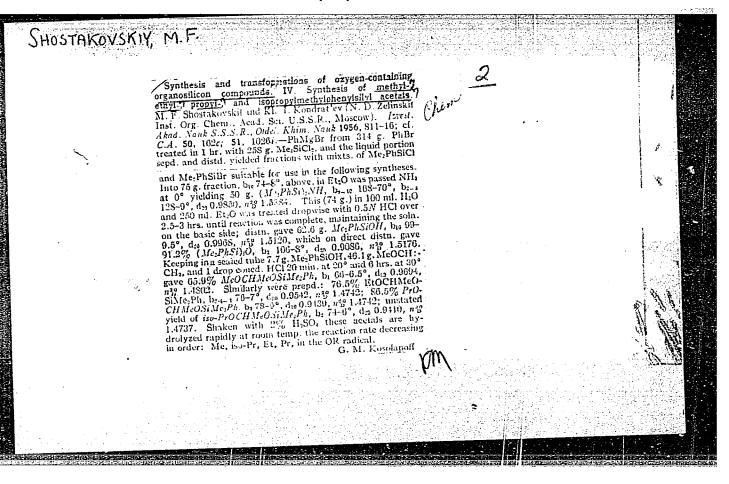


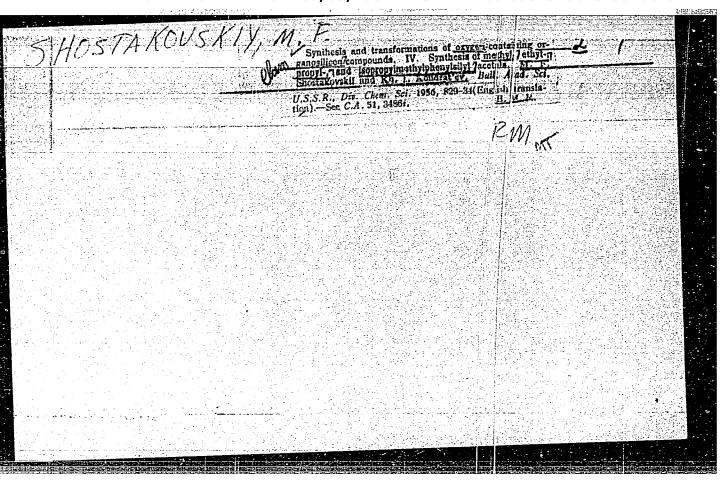


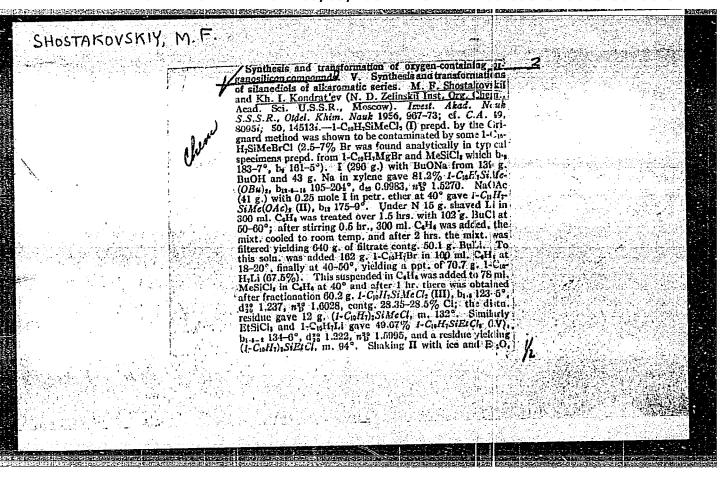


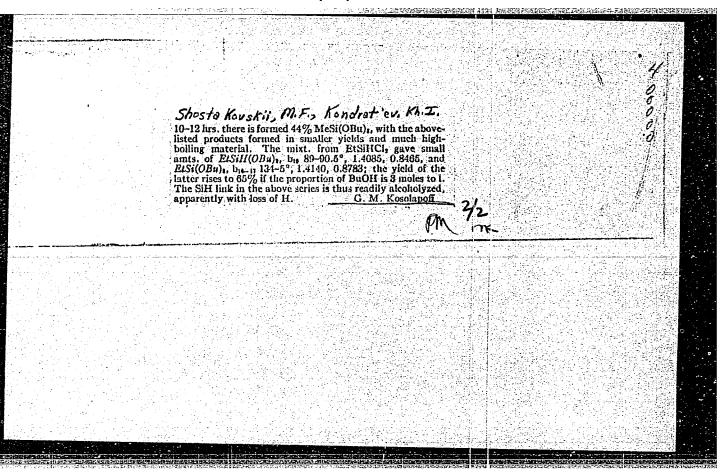
"APPROVED FOR RELEASE: 08/09/2001

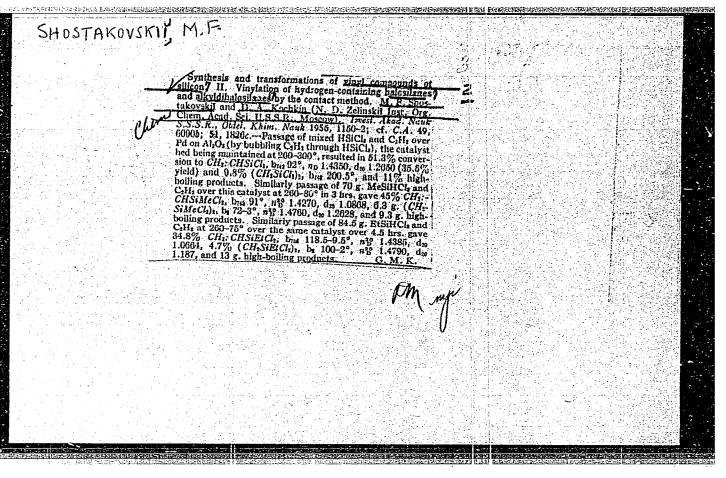
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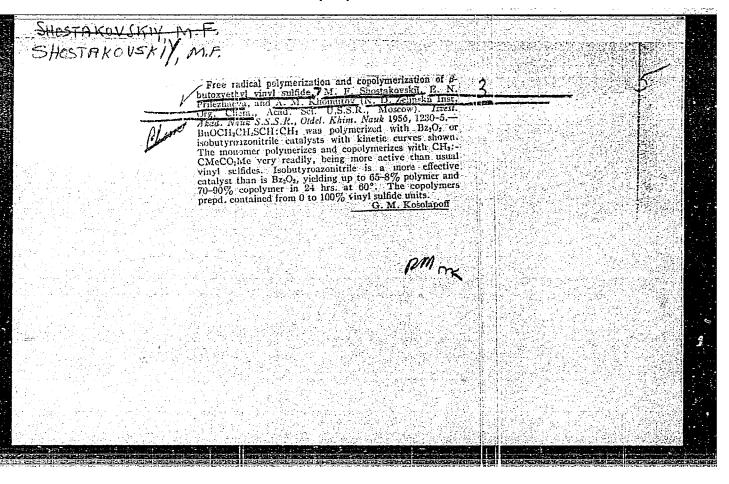


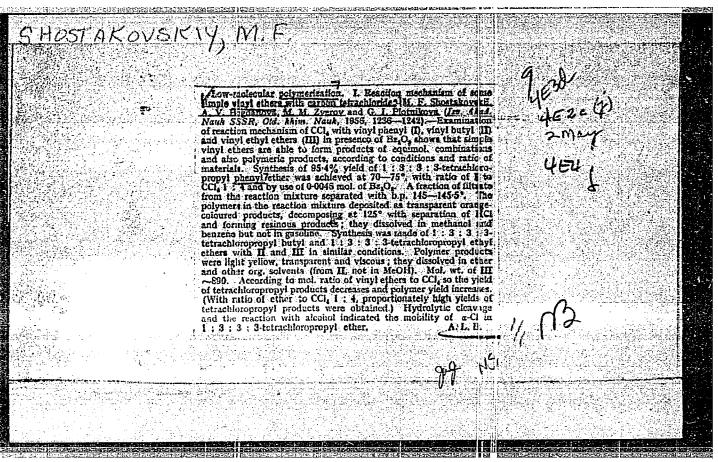


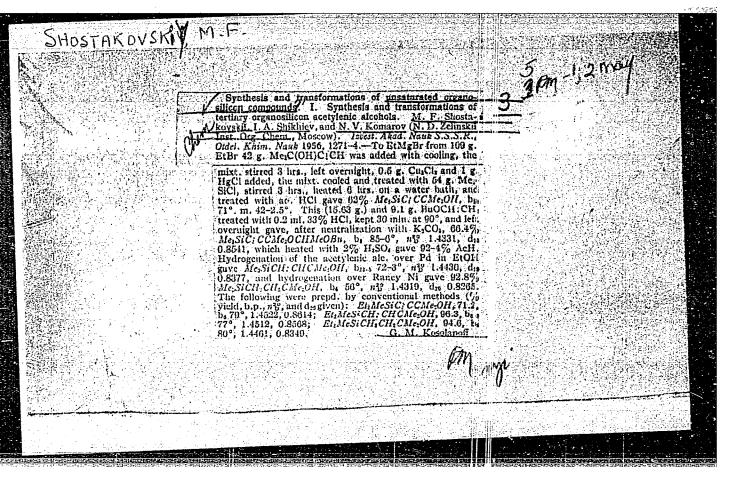












SHOSTAKOVSKIY, M.F.; GERSHTEYN, N.A.; NETERMAN, V.A.

Exchange reactions of acetaldehydedibutyl acetal. Izv.AN SSSR.Otd. khim.nauk no.3:378-381 Mr '56. (MLRA 9:8)

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

(Acetaldehyde)

CIA-RDP86-00513R001549910019-2 "APPROVED FOR RELEASE: 08/09/2001

Shoota Kovskix,

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

Abst Journal: Referat Zhur - Khimiya, No 1, 1957, 958

Author: Mastruykova, T. A., Prilezhayeva, Ye. N., Uvarova, N. I., Shostakov-

skiy, M. F., and Kabachnik, M. I.

Institution: Academy of Sciences USSR

Title: On the Reaction of Dialkyldithiophosphates with Thiovinyl Ethers

Periodical: Izv. AN SSSR, Section on Chemical Sciences, 1956, No 4, 443-450

Abstract: It is shown that (RO)2PSSH (I) combines easily with CH2 = CHSR' (II)

in accordance with Markovinkoff's rule with the formation of in accordance with Markovinkorr's rule with the formation of (RO)₂PSSCH(CH₃)SR' (III). The following compounds of the type III (RO)₂PSSCH(CH₃)SR' (III). The following compounds of the type III (RO)₂PSSCH(CH₃)SR' (III). The following compounds of the type III (RO)₂PSSCH(CH₃)SR' (III). The following compounds of the type III (RO)₂PSSCH(CH₃)SR' (III). The following compounds of the type III (RO)₂PSSCH(CH₃)SR' (III). The following compounds of the type III (RO)₂PSSCH(CH₃)SR' (III). The following compounds of the type III (RO)₂PSSCH(CH₃)SR' (III). The following compounds of the type III (RO)₂PSSCH(CH₃)SR' (III). The following compounds of the type III (RO)₂PSSCH(CH₃)SR' (III). The following compounds of the type III (RO)₂PSSCH(CH₃)SR' (III). The following compounds of the type III (RO)₂PSSCH(CH₃)SR' (III). The following compounds of the type III (RO)₂PSSCH(CH₃)SR' (III). The following compounds of the type III (RO)₂PSSCH(CH₃)SR' (III). The following compounds of the type III (RO)₂PSSCH(CH₃)SR' (III). The following compounds of the type III (RO)₂PSSCH(CH₃)SR' (III). The following compounds of the type III (RO)₃PSSCH(CH₃)SR' (III). The following compounds of the type III (RO)₃PSSCH(CH₃)SR' (III). The following compounds of the type III (RO)₃PSSCH(CH₃)SR' (III). The following compounds of the type III (RO)₃PSSCH(CH₃)SR' (III). The following compounds of the type III (RO)₃PSSCH(CH₃)SR' (III). The following compounds of the type III (RO)₃PSSCH(CH₃)SR' (III). The following compounds of the type III (RO)₃PSSCH(CH₃)SR' (III). The following compounds of the type III (RO)₃PSSCH(CH₃)SR' (III). The following compounds of the type III (RO)₃PSSCH(CH₃)SR' (III). The following compounds of the type III (RO)₃PSSCH(CH₃)SR' (III). The following compounds of the type III (RO)₃PSSCH(CH₃)SR' (III). The following compounds of the type III (RO)₃PSSCH(CH₃)SR' (III). The following compounds of the type III (RO)₃PSSCH(CH₃)SR' (I

Card 1/2

SHOSTAKOVSKIY, M.F.; SIDKL'KOVSKAYA, F.P.; ZELENSKAYA, M.G. Use of the iodoform reaction in the analysis of certain vinyl compounds.

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Izv.AN SSSR Otd.khim, nauk no.5:615-621 My '56.

1. Institut organicheskoy khimii imeni N.D.Zelinskogo Akademii nauk SSSR. (Iodoform) (Vinyl compounds)

SHOSTAKOVSKIY, M.F.; KOCHKIN, D.A.; ROGOV, V.M.

Research in the synthesis and conversion of oxygen-containing organosilicon compounds. Part 6. Preparation of secondary dialkyl-(aryl) chlorosilanes, dialkyl-(aryl)silanols and some of their conversions. Izv. AN SSSR. Otd.khim.nauk no.9:1062-1069 S 156. (MLRA 9:11)

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

(Silicon organic compounds)

SHOSTAKOVSKIY. M.F.; KOCHKIN, D.A.; VINOGRADOV, V.L.; NETERMAN, V.A.

Research in the synthesis and conversion of oxygen-containing organosilicon compounds. Part 6. Interaction of hydrogen-con-taining alkyl(aryl) dichlorosilanes with alcohols. Izv.

AN SSSR. Otd.khim.nauk no.10:1269-1271 0 '56. (MLRA 9:12)

1. Institut organicheskoy khimii imeni N.D. Zelinskogo Akademii nauk SSSR. (Silane) (Alcohols)

SHOSTAKOVSKIY

USSR/Organic Chemistry - Synthetic Organic Chemistry

E-2

Abs Jour

: Referat Zhur - Khimiya, No 2, 1957, 4469

Author

: Shostakovskiy, M.F., Shikhiyev, I.A., Komerov, N.V. : Academy of Sciences Azerbaydzhan SSR

Inst

Title

: Investigations of the Synthesis and Conversions of

Oxygen-Containing Organosilicon Compounds

Orig Pub

: Dokl. AN AzerbSSR, 1956, 12, No 3, 177-181

Abstract

: On heating (60-65°, 35 hours) equimolecular amounts of vinyl ether, gamma-hydroxypropyl-trimethylsilane and corresponding organic acid (glacial CHqCOOH, propionic, isobutyric) and subsequent fractionation in vacuum, were obtained the following partial organosilicon acetals CH3CH(OCOR)C(CH2)3Si(CH3)3 (listing consecutively R,

yield in %, BP in °C/mm, n²⁰L, d²⁰): CH₃, 59.5, 92-93/8, 1.4218, 0.9027; C₂H₅, 73.15, 99-100/7, 31.4242, 0.8979; (CH₃)₂CH, 64.0, 110-111/7, 1.4262, 0.8935.

 $(CH_3)_2$ CH, 64.0,

Card 1/1

- 110 -

SHOSTAKOVSKIY, M.F.; SHIKHIYEV, I.A.; KOMAROV, N.V.

Investigations in the field of the synthesis and conversion of oxygen-containing silicon organic compounds. Report no.3: Synthesis and conversion of some vinyl esters of Y-hydroxipropyltrimethyland methyldiethylsilanes. Izv. AN SSSR. Otd. khim. nauk no.12:1493-1499 D 156. (MIRA 10:4)

1. Institut organicheskoy khimii imeni N.D. Zelinskogo Akademii nauk SSSR. (Silane)

SHOSTAKOVSKIY, M.F.; SHIKHIYEV, I.A.; BELYAYEV, V.I.

Research in the field of oxygen containing organosilicom compounds. Part 5. Preparation of organosilicon acetals. Zhur.ob.khim. 26 no.3:706-709 Mr '56. (MLRA 9:8)

1. Institut organicheskoy khimii Akademii nauk SSSR. (Silicon organic compounds) (Acetals)

Shosteres okly, K.F

USSR/Chemistry of High Molecular Substances.

F

Abs Jour: Ref Zhur - Khimiya, No. 8, 1957, 27084.

Author : Shostakovskiy, M.F., Prilezhayova, Ye. N.;

Tsymbal, L.V.

Inst

Title : To The Question of Synthesis and Conversions of

Vinyl Ethers of Higher Pelyatemic Alcohels and Cellulese. II. Vinyl Ethers on Cellulese Base.

Orig Pub: Zh. obshch. khimii, 1956, 26, No. 3, 739 - 745.

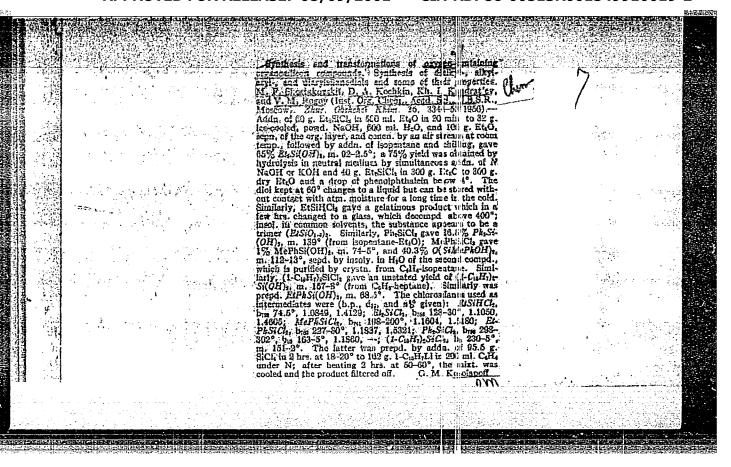
Abstract: The conditions of extension of the vinylization

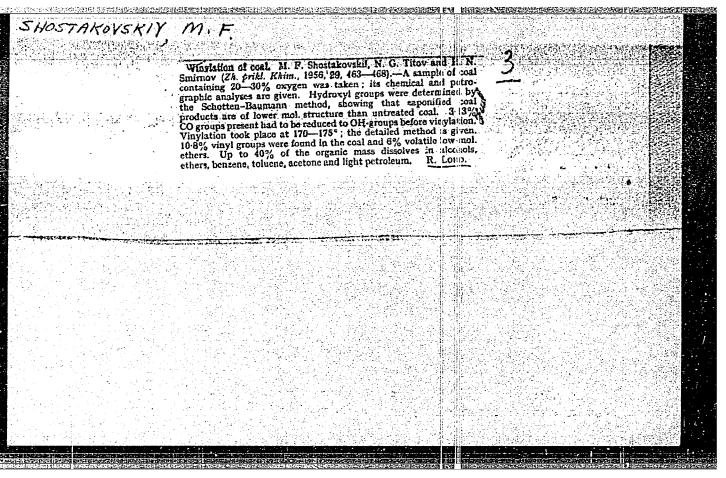
reaction of Faverskiy and Shostakovskiy on cellulose were studied. The possibility of the synthesis of vinyl ethers of cellulose at the interaction of alkaline cellulose with acetylene (10 to 15-fold excess of acetylene) in dioxane medium at 130 to 150° in 5 hours' time

Card 1/2

Card 2/2

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001549910019





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		/Vinylation of	coal of the Moscow Basin.	11.11.5005	ARO-	9	
		Vskil, N. G. T	imov, and R. M. Smirnov 503-7(1956)(Engl. trensl	ation).—See	CA. LY		
		50, 14205c.	coal of the Muscow Basin, inter, and R. N. Smirnov 503-7(1956)(Ergl. transl	ئىلىدا ئاسىدىك			
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	하는 것이 말로 없었다. 그런 취임.						
	길이 뭐하면 얼마 보고 말이 생각했다.						
	이 문문하는 이번 연안 얼마를 받아						
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CHUSTAKOUSKY 1

USSR/Organic Chemistry. Synthetic Organic Chemistry.

E-2

Abs Jour: Ref Zhur-Khimiya, No 6, 1957, 19257

Shostakovskiy M. F., Shikhiyev I. A., Korarov N. V. Author :

Insu

Title

Investigations in the Field of Synthesis and Conversion of Unsaturated Silicoorganic Compounds. Synthesis

of Silicoorganic Clucoles of Diacetylene Series.

Orig Pub: Dokl. AN SSSR, 1956, 109, No 2, 344-346.

Abstract: Described is the synthesis of discetylene silicoorganic

g_ucoles Hoc(CH3)2C-CSi(R)2C-CC(CH3)2OH (Ia-c) (a R=CH3; b R=C_H; c R=C3H7). To C2H5MgBr, prepared from 48 g. Mg and 220 g C2H5Br, are added under cooling 1 mole of dimethylacetylenylcarbinole in 100cc abs. ether and 0.5 mole (CH3)2SiCl2, after 12 hours is added 10-15% HCl, from the ether layer is isolated Ia, yield 64.3%, m.p. 80-820 (from benzene). Analogically were obtained Ib, yield 55%, m.p. 76-78°, and Ic, yield 48%, m.p. 70-71°. The presence

1/2 Card

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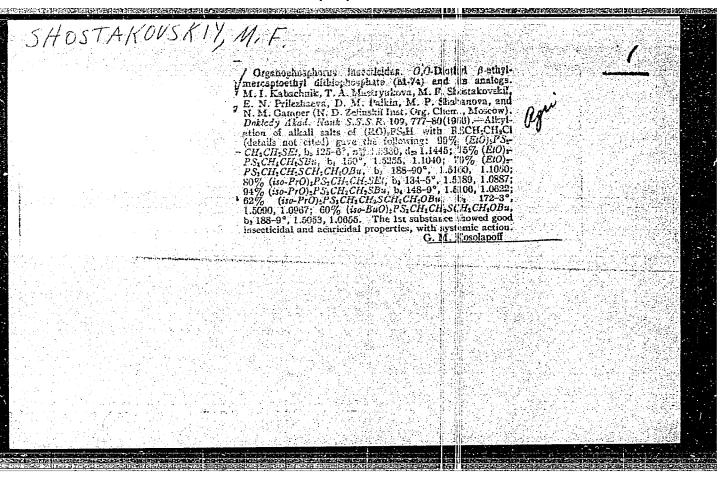
USSR/Organic Chemistry. Synthetic Organic Chemistry.

E-2

Abs Jour: Ref Zhur-Khimiya, No 6, 1957, 19257.

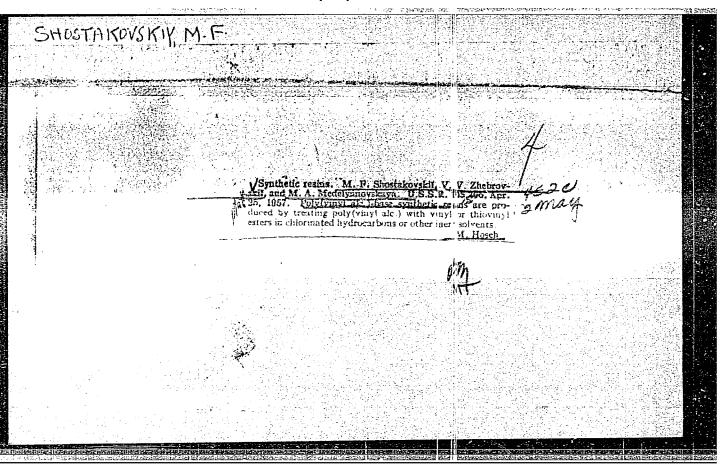
of two (OH)-groups is proven by the preparation of acetyl derivatives of Tb. A mixture of 0.1 mole Tb and 0.2 mole (CH₃CO)₂O is heated 8 hours at 70°, after hours after the distillation of CH2COOH diacetate Ib is obtained, yield 61%, b.p. 104-1410/3mm, n²⁰D 1.4639, d_h20 0.9675.

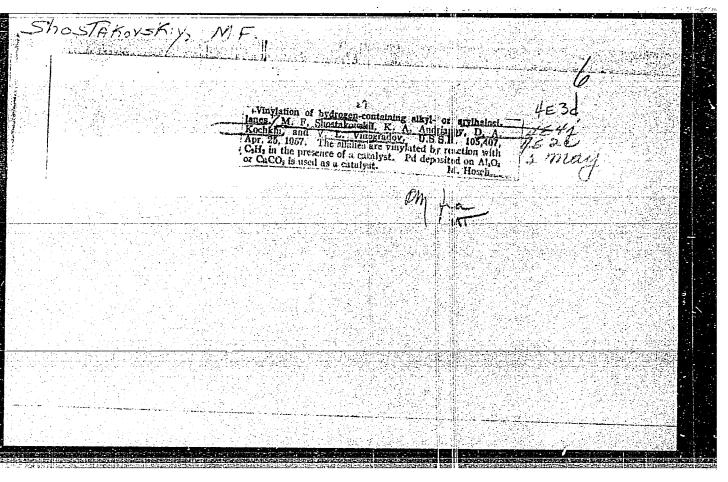
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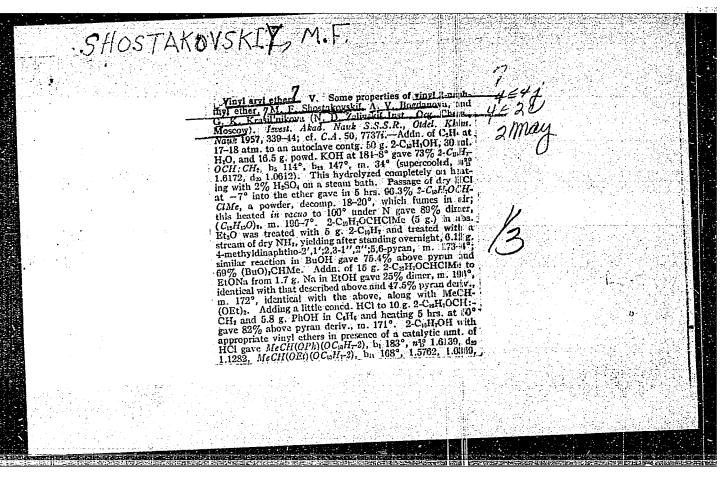


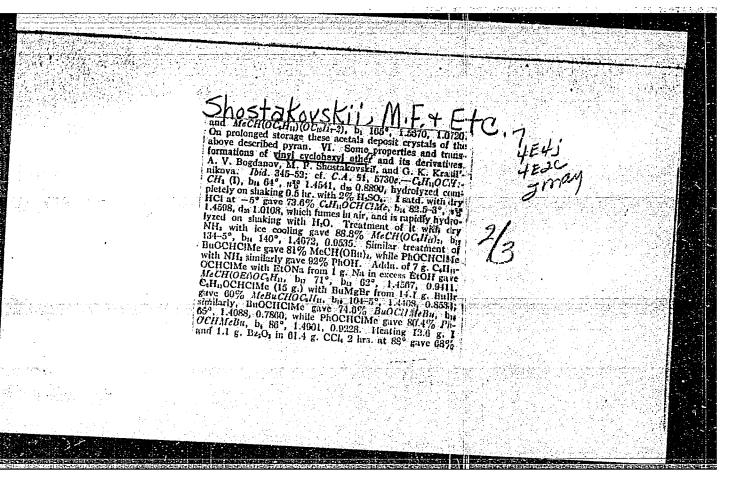
"Silicones with wingl-proups," a paper presented at the Sth Congress on the Chemistry and Physics of Migh Polymers, 28 Jan-2 Peb 57, Moscow, Polymer Research Inst.

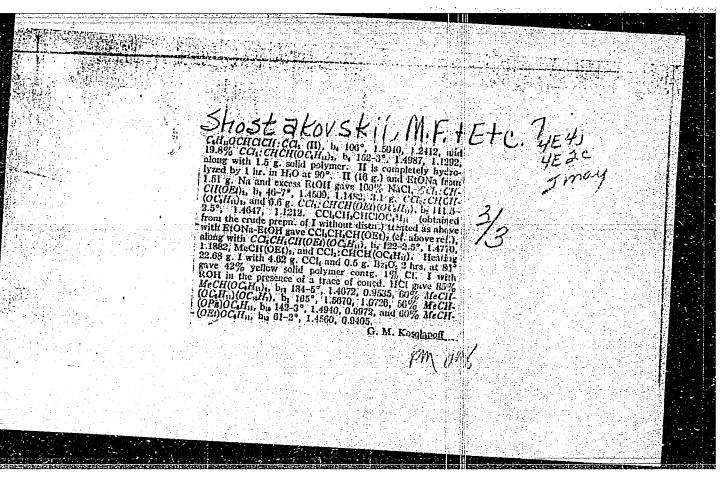
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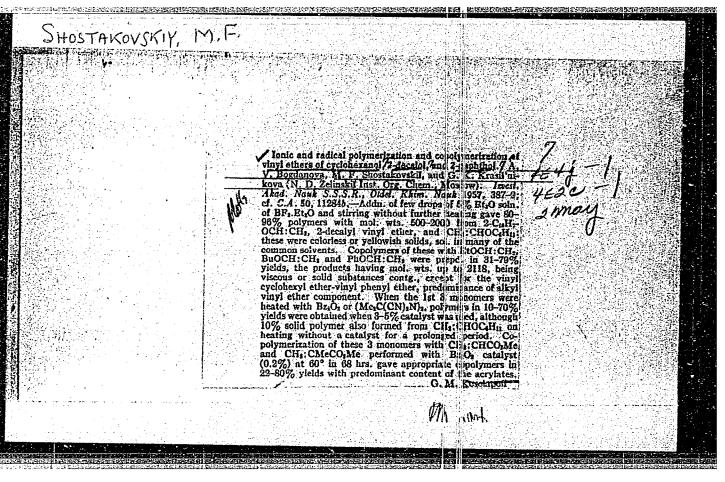


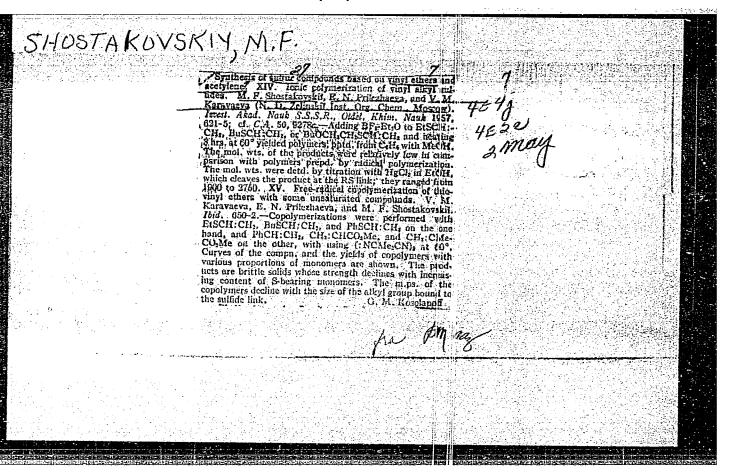


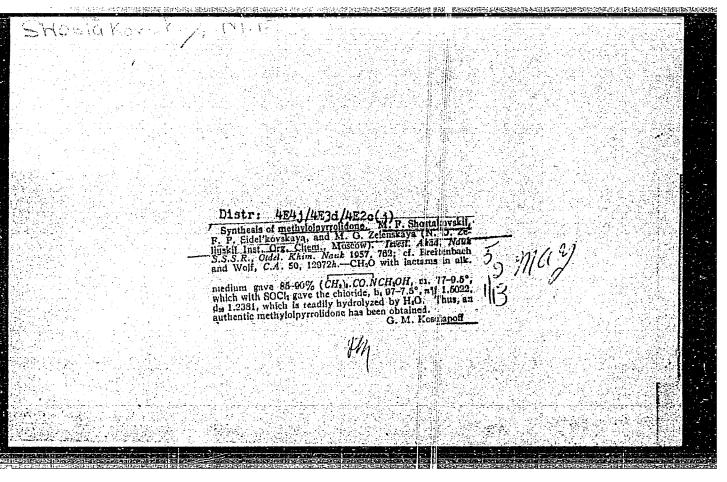


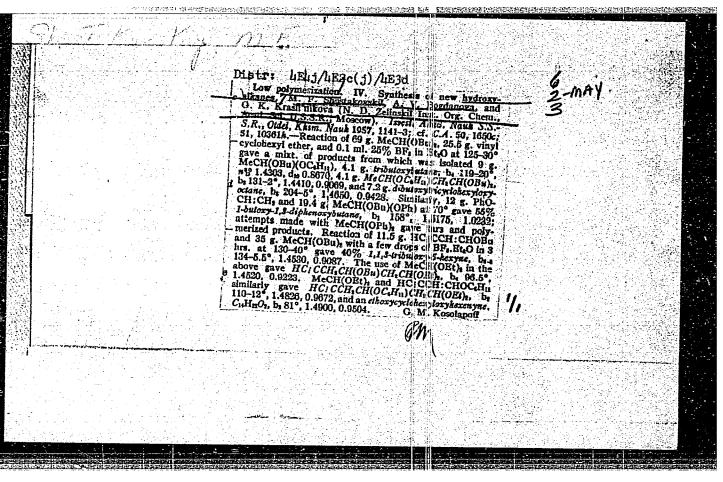












CIA-RDP86-00513R001549910019-2 "APPROVED FOR RELEASE: 08/09/2001

经投资技术

Shostakovskiy, M. F.; Khomutov, A. M.; Belyayev, V. I. 62-1-10/21

AUTHORS: Investigation of Chemical Conversions of Unsaturated and High TITLE:

Molecular Compounds. Part 7. Copolymerization of Vinylter-

tiarybutyl Ether and Methyl Ether of Methacrylic Acid (Issledovaniya v oblasti khimicheskikh prevrashcheniy nepredel'nykh i vysokomolekulyarnykh soyedineniy. Soobshcheniye 7. Sopolimerizatsiya viniltretichnobutilovogo efira i metilovogo efira metakrilovoy kisloty)

Izvestiya Akademii Nauk SSSR, Otdeleniye Khimicheskikh Nauk, 1957, PERIODICAL:

No. 1, pp. 70-74 (U.S.S.R.)

The laws governing the copolymerization of vinyltertiarybutyl ether ABSTRACT:

and methyl methacrylate are discussed. It was found that the yields of the copolymers obtained depend upon the chemical structure of the initiators. The reduction in the yields of copolymers os methylmethacrylate and vinyltertiary butyl ether is explained by the low activity of the polymerization chain having a butyl ether with free

valence. The use of dinitrylazoisobutyric acid leads to the formation Card 1/2

AUTHORS:

SHOSTANC CONST ME

Shostakovskiy, M. F., and Chekulayeva, I. A.

62-1-11/21

TITLE:

Synthesis and Conversions of Vinyl Ethers of Ethanolamines. Part 8. Vinyl Ethers of Beta-(Dimethylamino)Ethanol and Beta-(2,5-Dichloro-phenylamino)Ethanol (Sintez i prevrahcheniya vinilovykh efirov etanolaminov. Sooshcheniye 8. Vinilovye Efiry beta-(dimetilamino)

etanola i beta-(2,5-dikhlorfenilamino)etanola)

PERIODICAL:

Izvestiya Akademii Nauk SSSR, Otdeleniye Khimicheskikh Nauk, 1957,

No. 1, pp. 75-79 (U.S.S.R.)

ABSTRACT:

The authors synthesized vinyl ethers of beta-(dimethylamino) and beta-(2,5-dichlorophenulamino) ethanol and studied some conversions of these ethers. The relation between the nature of the amino-group and the reactivity of the vinyl ether is explained. It was established that vinyl others having the primary or secondary amino group are inert toward ion conversions. The substitution of the hydrogens of the amino group with alkyl groups and especially with phenyl radicals

Card 1/3

62-1-11/21

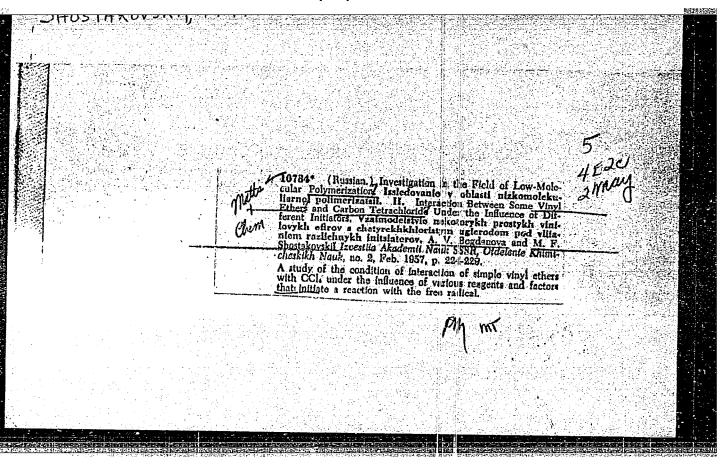
Synthesis and Conversions of Vinyl Ethers of Ethanolamines. Part 8

leads to a higher reactivity of the vinyl ether. Vinyl ether of beta-(dimethylamino)ethanol is perfectly identical in its characteristics to vinyl ether of beta-(diethylamino) ethanol; when subjected to reaction with alcohols if forms acetals: $CH_2 = CHOCH_2CH_2N(CH_3)_2 + HOCH_2CH_2N(CH_3)_2 - CH_3CH_OCH_2N(CH_3)_2$ 2.

Vinyl ether of beta-(2,5-dichlorophenylamino) ethanol is identical to the vinyl ether of beta-(phenylamino) ethanol; thanks to its greater hydrogen mobility in the presence of mitrogen and traces of concentrated hydrochloric acid, the vinyl ether easily submits to certain conversions (see formulas on bottom of page 75).

Card 2/3

Table. There are 8 references, of which 6 are Slavic



SHOSTAKOVSKIY, M.F.; KONDRAT'YEV, Kh.I.

Synthesis and transformation of organic compounds containing oxygen and silicon. Report No.7: Synthesis of dimethyl- \propto -naphthyl-, methyl- \propto -dinaphthyl-, ethyl- \propto -dinaphthyl- and \propto -trinaphthylsilanols. I_{ZV}.AN SSSR.Otd.khim.nauk no.3:319-324 Mr '57, (MIRA 10:5)

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

(Silanols)

BOGDANOVA, A.V.; SHOSTAKOVSKIY, M.F.; KRASIL'NIKOVA, G.K.

Investigations in the field of vinylaryl ethers. Report No.6: Some properties and transformations of vinylcyclohexyl ether and its derivatives. Izv.AN SSSR.Otd.khim.nauk no.3:345-352 Mr '57.

(MLRA 10:5)

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

(Vinyl compounds)

PRILEZHAYEVA, V.M.; KARAVAYEVA, V.M.; PRILEZHAYEVA, Yo.M.; 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)

SHOSTAKOVSKIY, M.F.; SIDEL'KOVSKAYA, F.P.; ZELENSKAYA, M.G.

Letter to the editor. Izv. AN SSSR Otd. khim. nauk no.6:762 Je '57.

(MIRA 10:11)

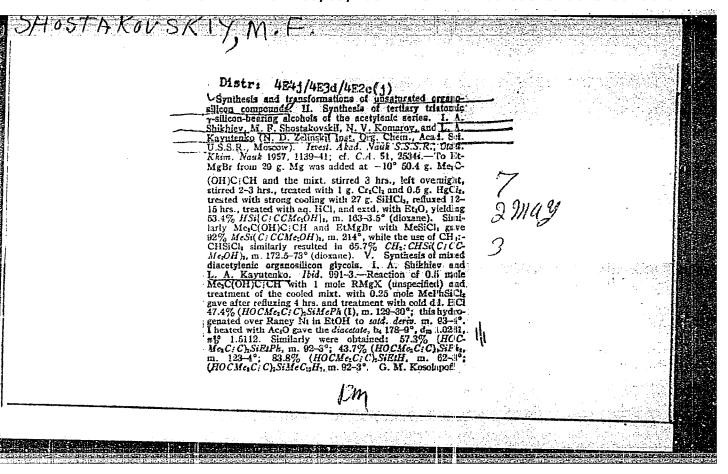
1. Institut organicheskoy khimii im. N.D. Zelinskogo AN SSSR.

(Pyrrolidone)

SHIKHIYEV, I.A.; SHOSTAKOVSKIY, M.F.; KOMAROV, N.V.

Synthesis and transformation of silicon organic compounds containing oxygen. Report No.8: Interaction of vinyl ethers with silanes and /2-alcohols containing silicon. Izv. AN SSSR. Otd. khim. nauk no.9:1132-1133 S '57. (MIRA 10:12)

1. Institut organicheskoy khimii im. N.D. Zelinskogo AN SSSR. (Vinyl ether) (Silane) (Alcohols)



SHOSTAKOVSKIY, M.F.; BOGDANOVA, A.V.; KRASIL'NIKOVA, G.K.

Studies in the field of low polymerization. Report No.4: Synthesis of new oxyalkanes. Izv. AN SSSR. Otd. khim. nauk no.9:1141-1143 S 157. (MIRA 10:12)

1. Institut organichskoy khimii im. N.D. Zelinskogo AN SSSR. (Paraffins)

SHOSTAKOVSKIY, M.F.; BOGDANOVA, A.V.; USHAKOVA, T.M.

Vinyl compounds in diene synthesis. Report No. 1: Interaction of some vinyl ethers with cyclopentadiene and hexachlorocyclopentadiene. Izv. AN SSSR Otd. khim. nauk no.10:1245-1249 0 '57. (MIRA 11:3)

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

The further of skyrt

AUTHORS: Shostakovskiy, M. F., Sidel'kovskaya, F. P,

62-11-24/29

Zelenskaya, M. G.

TITLE:

Investigations in the Field of Lactones and Lactames. (Issledo-vaniye v oblasti laktonov i laktamov). 8. Report Preparation of Polyvinylpyrrolidone with Protracted Action (Soobshcheniye 8. Polucheniye preparata polivinilpirrolidona prolongiruyushchego deystviya).

PERIODICAL:

Izvestiya AN SSSR, Otdel.Khim.Nauk, 1957, Nr 11, pp. 1406-1408 (USSR)

ABSTRACT:

The task of the present paper was the production of polymers of the vinylpyrrolidone with relatively high molecular weight, discovering the characteristics for an active preparation in extended view and ascertaining the conditions for the production of it. For this purpose the polymerization of the vinylpyrrolidone under presence of $\rm H_2O_2$ and of the azoisobutyric-acid-dinitril as well as in a aqueous solution under the influence of $\rm H_2O_2$ was investigated. It is shown that in the presence of azoisobutyric-acid-dinitril the polymerization takes place at a lower temperature but also much slower than in a phymerization with $\rm H_2O_2$. The plymeride developping on this occasion show a much higher viscosity, but have no colour or odour. The polymeride obtained at more than $\rm 100^{\circ}$ almost always have an unpleasant scent and a yellowish colour. The polymerization under $\rm H_2O_2$ -influence in a

Card 1/2

62-11-24/29 Investigations in the Field of Lactones and Lactanes. 8. Report . Preparation of Polyvinylpyrrolidone with Protracted Action.

solution has higher advantages than such"in a block": 1) This process takes place at relatively lower temperature, 2) the product output becomes higher, 3) the polymeride developing is colourless and has no odour. In the physiological experiments at the 1. Moscow Institute for Medicine (reference 3) it was ascertained that the samples with a relative viscosity of a 3% aqueous solution of 3.7 to 4.0 are the most effective as "prolongator". The best sample showed a relative viscosity of 3,74, an osmotic pressure of 270 mm water column and an average molar weigth of~50 coo. There are 1 table, 3 references, 1 of which is Slavic.

ASSOCIATION: Institute for Organic Chemistry imeni N.D.Zelinskiy of the AN JSSR (Institut organicheskoy khimii im.N. D. Zelinskogo Akademii

nauk SSSR.)

SUBLITTED:

Jane 21, 1957

AVAILABLE:

Library of Congress.

Card 2/2

AUTHORS:

Shostakovskiy, M.F., Kochkin, D.A., Vinogradov, V.L.

62-12-4/20

TITLE:

Investigation of the Synthesis and of the Transformations of Vinyl Commounds of Silicon (Issledovaniya v oblasti sinteza i prevrashcheniy vinilevykh soyedineniy kremniya) Information 3. The Cotaining of Vinyl-Alkyl-Chlorine-Silanes by the Interaction of Acetylene With Hydrogen-Containing Chlorosilanes and the Investigation of Some of Their Properties (Soobshcheniye 3. Polucheniye vinilalkilkhlorsilanov vzaimodeystviyem atsetilena s vodorodsoderzhandini

khlorsilanami i issledovaniye ikh nekotorykh svoystv).

PERICDICAL:

Izvestiya AN SSSR Otdeleniye Khimicheskilh Nauk, 1957, Nr 12,

pp. 1452-1456 (USSR)

ABSTRACT:

The present paper deals with the elaboration of the reaction of the vinylation of hydrogen-containing alkyl-halide-silanes as a result of their cooperation with acetylene. From the reaction products the following substances were separated: methyl- and ethyl butadienyl-dichlorine silanes, dimethyl- and diethyltetrachloride silylethanes, as well as dimethyl- and diethyltetrachloride silylethanes. The catalyzers of the vinylation are those of the palladium group (metals,

Card 1/2

acids, salts). The reaction of vinylation can be realized by means

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Investigation of the Synthesis and of the Transformations of Vinyl Compounds of Silicon. Information 3. The Obtaining of Vinyl-Alkyl-Chlorine-Silanes by the Interaction of Acetylene With Hydrogen-Containing Chlorosilanes and the Investigation of Some of Their Properties

62-12-4/20

of the method interrupted in autoclave as well as by the uninterrupted method (like in the case of the vinylation of alcohols). There are 9 references, 6 of which are Slavic.

ASSOCIATION: Institute for Organic Chemistry AN USSR imeni N.D.Zelinskiy

(Institut organicheskoy khimii im. N.D.Zelinskogo Akademii nauk).

SUBMITTED: June 22, 1956

AVAILABLE: Library of Congress

Card 2/2 1. Hydrogen-Vinylation-Reaction 2. Methylbutadienyldichlorine

3. Ethylbutadienyldichlorine 4. Diethyltetrachloride silylethanes

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AUTHORS:

Shostakovady, L.F., Sidel'kovakaya, F.F.,

62-12-5/20

Zelenskaya, b.G.

TITLE:

Investigations Carried out in the Fields of Lactones and Lactams (Issledovaniye v chlasti laktonov i laktamov). Information 9. The

Synthesis of the Vinyllaotams and Some of Their Properties

(Soobshcheniye 9. Sintez vinillaktamov i ikh nekotoryye svoystva).

PERIODICAL:

Izvestiya AN SSSR Otdeleniye Khimicheskikh Nauk, 1957, Nr 12,

pp. 1457-1464 (USSR)

ABSTRACT:

In publications dealing with chemical problems much attention has recently been paid to the synthesis and polymerization of nitrogen-containing vinyl compounds. Among these methods, there is the reaction of direct vinylization suggested by Favorskiy and Shostakovskiy, which was carried out with alcohols and phenols. Further working out of this reaction made it possible to synthesize a number of valuable preparations. The authors gave a report about the vinylization of lactams by using pyrrolidone, piperidone and capro-lactam as examples. The catalyzers of vinylization are alkaline salts of lactams. It was shown that the most simple method of preparing the salts is the direct interaction between lactams and alkaline metals. It was

Card 1/2

Investigations Carried out in the Fields of Lactones and Lactams. Information 9. The Synthesis of the Vinyllactams and Some of Their Properties 62-12-5/20

further shown that vinylperidone as well as other vinyl lactams must be hydrolyzed in an acid medium. Optimum conditions of hydrolysis were found. The polymerization of vinyl lactams was carried out under the influence of dinitryl of azoiso-butyric acid as well as under the influence of $\rm H_2O_2$ in an aquecus solution. The authors then describe a simultaneous polymerization of the vinyl peridone with the methyl ester of methacrylic acid. There are 7 tables, and 17 references, 11 of which are Slavic.

ASSCCIATION: Institute for Organic Chemistry AN USSR imeni N.D. Zelinskiy

(Institut organicheskoy khimii im. N.D.Zelinskogo Akademii nauk

SSSR).

SUBMITTED: July 3, 1956

AVAILABLE: Library of Congress

Card 2/2 1. Lactones-Vinylization 2. Lactams-Vinylization 3. Alcohols

4. Phenols 5. Pyrrolidone

AUTHORS:

Shostakovskiy, M.F., Savitskiy, Ye.M.,

62-12-15/20

Kochkin, D.A., Musatova, L.V.

TITLE:

On the Comparative Efficiency of Silicon Alloys With Copper and Nickel, Applicable in Direct Synthesis of Vinylchlorosilanes (O sravnitel noy effektivnosti splavov Kremniya s med yu i nikelem,

primenyayemykh v pryamom sinteze vinilkhlorsilanov).

PERIODICAL:

Izvestiya AN SSSR OtdeleniyeKhimicheskikh Nauk, 1957, Nr 12,

pp. 1493-1495 (USSR)

ABSTRACT:

In the course of a thorough analysis of the alloy of silicon with copper (which was already previously described) the authors, among other things, found that the alloy contained 50% silicon, 49% copper, and 0.4% aluminum. Also silicon alloys were investigated which contained also other metals such as chromium, manganese, and molybdenum. In other cases (with the exception of nickel and copper) negative results were obtained. From the result of the synthesis (see table) it may be seen that the silicon-nickel alloy is more active (when vinylchloredlanes are obtained by direct synthesis). It was further shown that the silicon-nickel alloy (nickel content 15%) must be considered to be the most suitable. There are 1 table, and

Card 1/2

On the Comparative Efficiency of Silicon Alloys With Copper and Nickel, Applicable in Direct Synthesis of Vinylchlorosilanes

62-12-15/20

4 references, 2 of which are Slavic.

ASSOCIATION: Institute for Organic Chemistry AN USSR imeni N.D.Zelinskiy

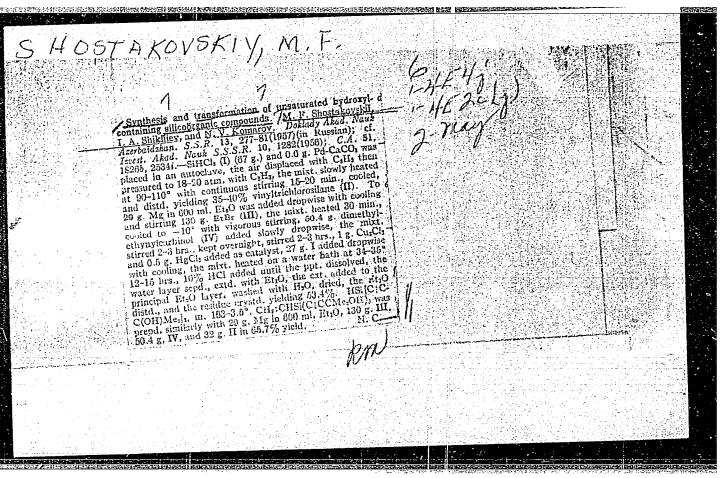
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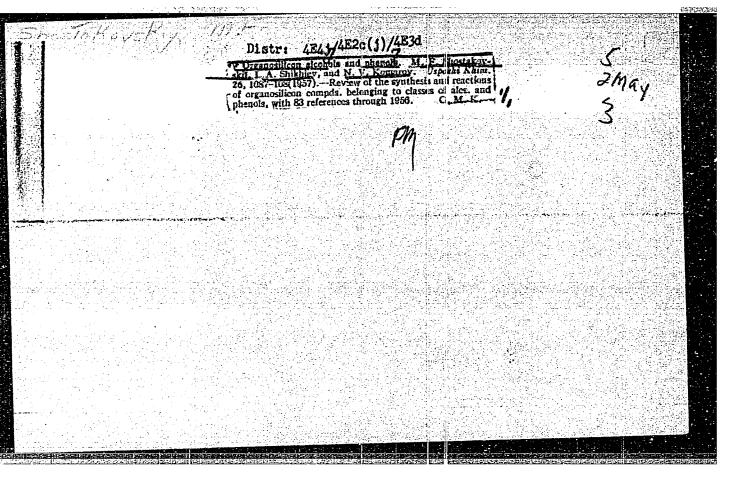
SSSR).

SUBMITTED: August 13, 1957

AVAILABLE: Library of Congress

Card 2/2 1. Silicon copper-Alloy-Analysis 2. Silicon ni ckel-Alloy-Analysis





"APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001549910019-2

79-2-17/58 Shostakovskiy, M. F., and Gracheva, Ye. P. Synthesis and Conversion of Alpha-Methylvinyl Ethers of Iso-Alcohols AUTHORS: and Ethylene Glycol. Part 5. (Sintez i prevrashcheniye alfa-metilvinilovykh efirov izospirtov i etilenglikolya. V.) TITLE: Zhurnal Obshchey Khimii, 1957, vol 27, No 2, pp. 355-359 (U.S.S.R.) The purpose of this experiment was to study the synthesis and certain PERIODICAL: properties of alpha-methylvinylisoalkyl ethers and alpha-methylvinyl ethers of ethylene glycol. The reaction between methylacetylene and ABSTRACT: isopropyl, isobutyl, isoamyl alcohols in the presence of powdered potassium hydroxide led to the formation of homologous substituted vinyl ethers. The reaction of methylacetylene with ethylene glycol in the presence of KOH resulted in the formation of monovinyl ether ethylene glycol which under conditions of the high reaction temperature isomerized into cyclic ketal. The latter phenomenon is explained by the fact that the reaction of the addition of ethylene glycol to the acetylene takes place at 130 - 140° while the addition of ethylene Card 1/2

SHOSTAKOVSKIY, M.F.

AUTHOR TITLE

30-7-8/36 SHOSTAKOVSKIY, M.F., Dr. chem. sc., SIDELKOVSKAYA, F.F., cand.chem.sc. On the Vinyl-Lactams and Their Polymers

(O vinillaktamakh i ikh polimerakh. Russian) Vestnik Akademii Nauk SSSR, 1957, Vol 27, Nr 7, pp 45 - 51 (U.S.S.R.)

PERIODICAL

During recent years great achievements were attained in the field of the chemistry of vinyl compounds. Quite a number of saturated compounds were obtained which contain atoms of oxygen, sulfur and silicon. An ABSTRACT

especially interesting group of compounds are the vinyl lactams of the

 $CH_2 - CH - H - C - [CH \cdot n].$ (n = trivalent vinylgeneral structure:

pyrrolidone, n = h-vinylpiperidone, n = 5-vinylcaprolactam). The first report on a synthesis of vinyl lactams came from the I.G. Farbenindustrie. Already for several years work has been done in the Institute for Organic Chemistry of the Academy of Science of the U.S.S.R. on the investigation of the synthesis and the transformation of vinyllactams, in order to obtain vinylpyrrolidone. The polymerization is of special interest. During recent years various papers were published which prove the use of vinylpyrrolidone in other fields of scientific research. Due to its strong inclination toward formation of complex compounds, its easy solubility in H2O and in organic solvents, polyvinylpyrrolidone

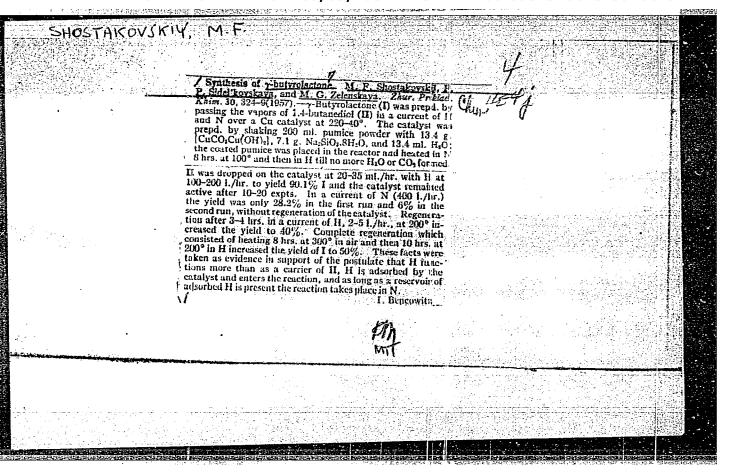
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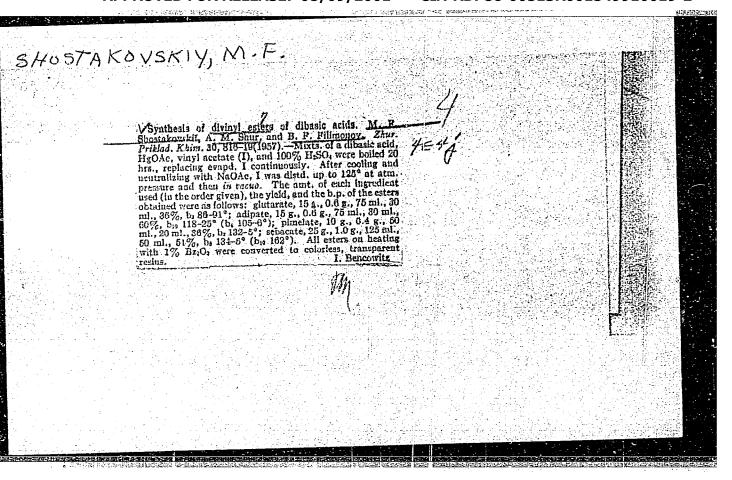
SHOSTAKOVSKIY, M.F.; KOCHKIN, D.A.; VINOGRADOV, V.L.; NETERMAN, V.A.

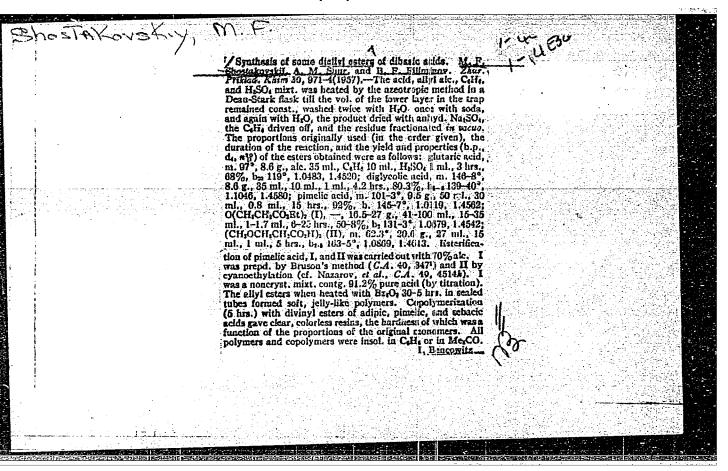
Synthesis and conversion of oxygen containing silicon organic compounds. Part 6: Reaction of oxygen containing alkyl (aryl) dichlorosilanes with alcohols. Zhur. ob. khim. 27 no.9:2487-2491 (MIRA 11:3)

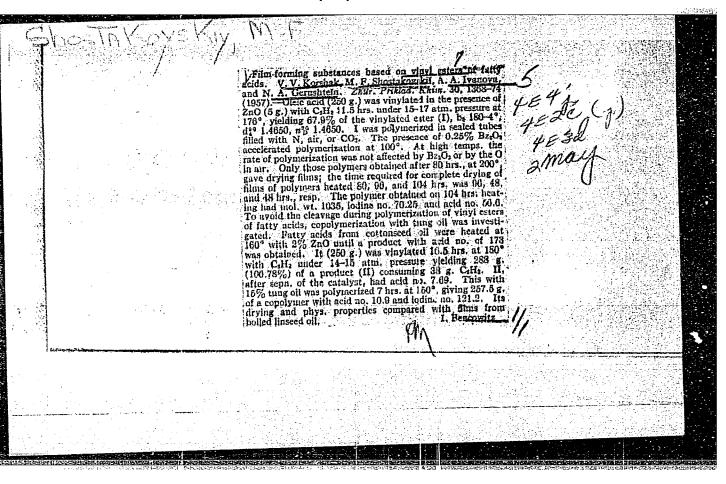
S '57.

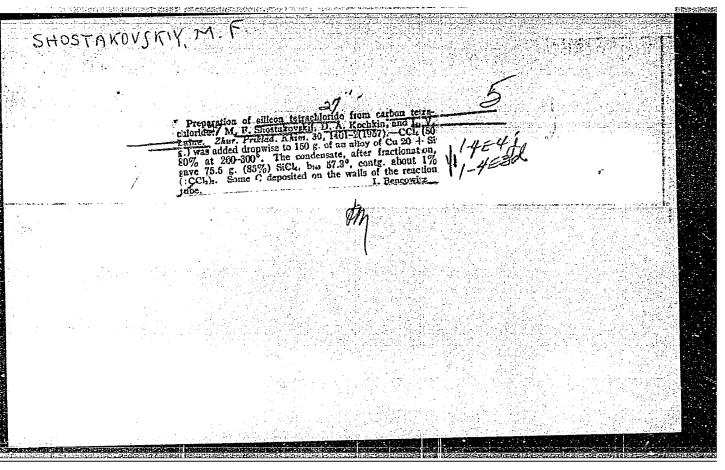
1.Institut organicheskoy khimii AN SSSR. (Silanes) (Alcohols)

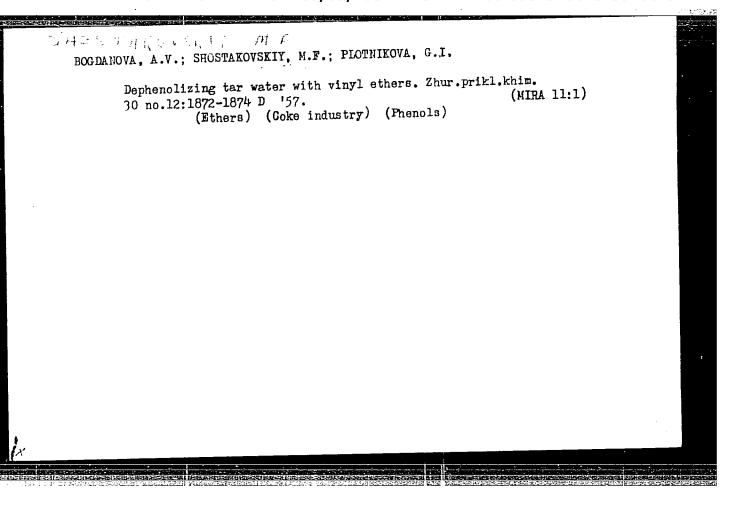












AUTHORS: Shostakovskiy, M. F., Bogdanova, A. V., 20-114-6-31/54

Krasil nikova, G. K.

TITLE: The Interaction of Diacetylene With Some Hydroxyl-Containing

Compounds (Vzaimodeystviye diatsetilena s nekotorymi

gidroksilsoderzhashchimi soyedineniyami).

PERIODICAL: Doklady AN SSSR, 1957, Vol. 114, Nr 6, pp. 1250-1253 (USSR)

ABSTRACT: Because of its high reactivity diacetylene is of interest for synthetic organic chemistry. But its use is restricted by its

small accessibility. The authors describe the 3 known

production methods of diacetylene (references 1-8). The aim of the present investigation is the study of the interaction conditions of diacetylene with butanol, cyclohexanol and β -decanol, the isolation of the products and the comparison of their properties. Diacetylene reacts with alcohols under the influence of caustic alkalies on heating. On that occasion ethyl-vinyl-ethers form. In the case of an excess of alcohol they are converted to butine-2-Al-4-acetals (equation 2).

 $CH = C - C = CH + ROH \rightarrow CH = C-CH \quad CH-OR, \quad (1)$

Card 1/4 where $R = C_4 H_9(I)$; $C_6 H_{11}(II)$; $C_{10} H_{17}(III)$

The Interaction of Diacetylene With Some Hydroxyl-Containing Compounds

20-1-14-6-31/54

where $R = C_4H_9(IV)$; $C_6H_{11}(V)$; $C_{10}H_{17}(VI)$. The reaction takes place in steps. In contrast to the alkylacetylenes the first alcohol-molecule is added to diacetylene, in opposition to the Markovnikov-rule. This is done by the influence of the second ethenyl group. The next molecule is added to the ethylvinylether according to the Markovnikovrule. It is followed by an isomerization discovered for the hydrocarbone by Favorskiy (reference 9). On heating to 1000 only ethylvinylethers are produced. Acetals only develop above 1300. The interaction of diacetylene with β -decalol begins at 900 and only ethylvinylether is obtained. At higher temperatures decanol is obtained. In order to prove this structure of isolated ethers and acetals, the authors used bromination, hydrolysis (reference 2) and hydrogenation (a partial and a complete one). In the partial hydrogenation l-alkoxybutadienes develop, in the complete one - saturated ethers of the $C_4^{H}_9^{OR}$, series, where

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The Interaction of Diacetylene With Some Hydroxyl-Containing Compounds

20-114-6-31/54

R = C₄H₉(VIII); C₆H₁₁(IX;C₁₀H₁₇(X). From the butynal-acetals the authors produced the corresponding butyralacetals. Ethylvinyl ethers are easily brominated. The addition of the first bromine-molecule probably takes place at the double bond and is accompanied by an isomerization. The second bromine-molecule is added to the triple bond and 1-butoxy-1,2,3,4-tetrabromobutene-2 (XIII) forms. The reactions described indicate a considerable reactivity ethylvinylethers in the ionic conversions. In this connection some peculiarties of their double bond become recognizable. 16 compounds, 10 of whom were unknown in literature, were synthesized on the diacetylene-basis. There are 2 tables, and 13 references, 2 of which are Slavic.

Card 3/4

62-1-11/29 Shostakovskiy, L. P., Shaonina, L. I. AJTHORS: The Investigation of the Radical Addition Mechanism of Rdy-TITLE: halides Compounds to Vinyl Acetate (Issledovaniye radikal nogo mekhanizma prisoyedineniya poligaloidnykh soyedineniy k vinilatse-Izvestiya AN SSSR Otdeleniye Ahimicheskikh Nauk, 1958, PERIODICAL: Nr 1, pp 54 - 67 (USSR)ABSTRACT: Up to now the interaction between polyhaloidnethane and trichlorosilane and various olerins and simple vinyl esters was investigated most precisely. This was done to a smaller extent, however, with the reaction of the interaction of the above mentioned compounds with complex vinyl esters. There exists only one American patent (1946, reference 7) inwhich the interaction between the carbon tell chloride and vinyl acetate is described. The polarization products of thegeneral formula CCl3 (CH2CHOCOCH3), C1, were obtained as result, where n = 1....8. In the present paper the authors report on the inventigation of the interaction between CCl2, CHCl3, SiCl4, SiHCl3 and C2H5SiHCl2 and vinyl acctate under the influence of benziolperoxide. It was found that the yield of the equinolecular addition compound of CClA to vinyl acetate is increased corresponding to the greater quan-Card 1/2

The Investigation of the Radical Addition Mechanism of Polyhalides 62-1-11/29

tity of CCl4. The yield of the product was improved and its constants were defined exactly. For the first time equimolecular addition compounds were obtained of SiHCl3 and C2H5SiHCl2 to the vinyl acetate. Here SiCl4 does not enter interaction with vinyl acetate (in the presence of benzoil peroxide). After the interaction between CHCl3 and vinyl acetate has taken place a mixture of theproducts of low-molecular polymerization is formed. There are 2 tables, 7 references, 3 of which are Slavic.

ASSOCIATION:

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

SUBMITTED:

July 19, 1956

AVAILABLE:

Library of Congress

1. Halides-Chemical reactions 2. Vinyl acetate-Chemical reactions

Card 2/2

CIA-RDP86-00513R001549910019-2 "APPROVED FOR RELEASE: 08/09/2001

AUTHORS:

Shostakovskiy, M. P., Shapiro, E. S.

62-1-12/29

Sidel'kovskaya, P. P.

TITLE:

Investigation in the Field of the Lactones and Lactams (Issledovaniye v oblasti laktonov i laktamov). Report 10: On the Reaction of the Addition of Hydrogen Sulfide to Vinyllactames (Soobshcheniye 10. O reaktsii prisoyedineniya serovodoroda k vinil-

laktamam)

PERIODICAL:

Izvestiya AN SSSR Otdeleniye Khimicheskikh Nauk, 1958,

Nr 1, pp 68 - 74 (USSR)

ABSTRACT:

The reactions of the above mentioned compound according to the general formula have practically not been treated at all in the references and were the object of detailed investigation in the laboratory of the authors. Already the investigation of the properties of the vinylcaprolactame and vinylpyrrolidone showed that they can quantitatively hydrolyze according to the ion mechanism (in acid medium). The reaction of the alcohols with vinylprolactame took place under formation of alkoxyethylideslactame only up to 8% (since the process was complicated by the by-reactions). The behavior of the vinyllactames in the above mentioned reaction is to a certain extent similar to the behavi-

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or of thionylethers (and of vinylethylsalphide). (tables 1 and2).

Investigation in the Field of the Lactones and Lactams 62-1-12/29 Report 10: On the Reaction of the Addition of Hydrogen Sulfiue to Vinyllactames

> In the present paper the authors report on the investigation of the reaction of the above mentioned compound and prove that on the basis of the vinylcaprolactame and vinylpyrrolidone sulfides and thioles can be obtained with a general yield of 75--85%. Furthermore it was found that the second reaction stage had a greater velocity than was assumed and thus leads to the formation of sulfide. The synthesis of the thiole (on the basis of vinylkaprolactame) succeeded with a yield of 40-45%. It was shown that the reaction of the compound of hydrogen sulfide with vinylcaprolactame is retarded in the case of that the latter had came for a longer time into contact with air. The synthesis of thicle with the pyrrolidone ring was realized with a yield of 60% (after the reaction between N-B-chloroethylpyrrolidone and NaSH had taken place). There are 2 tables and 15 references, 14 of which are "lavic.

ASSOCIATION:

Institute of Organic Chemistry imeni N.D.Zelinskiy, AS USSR (Insitut organicheskoy khimii im. R.D. Zerinskogo Akadenii nauk SSSR)

SUBMITTED:

July 6, 1956

1. Lactones-Derivatives 2. Lactams-Derivatives 3. Hydrogen sulfide-Chemical reactions 4. Vinyllactames-Chemical reactions

5. Thiols-Synthesis

STAKOUSKIY, M.F

AUTHORS:

Shostakovskiy, M. F., Khomutov, A. M., Alimov, A.P., 62-1-22/29

TITLE:

The Synthesis of the Complex Divinyl Ether of Tartaric Acid(Sin-

tez slozhnogo divinilovogo efira vinnoj kisloty)

PERIODICAL:

Izvestiya AN SSSE Otdeleniye Chimicheskith Nauk, 1956

Nr 1, pp 108 - 109 (USSR)

ABSTRACT:

The synthesis of the vinylethers by interaction between the vinyl acetate and alcohols or acids was already described in literature (references 1,2). Corresponding to the kind of reaction according to this method simple as well as complex vinylethers can be synthetized. The reaction of the acid vinylization with

the action of the acetate can be expressed by the following equation:

 $CH = CHOCOCH_3 + RCOOH \frac{20-800}{HgSO_4}$ $CH_2 = CHOCOR + CH_3COOH.$

By this way of indirect vinylization the composed vinylethers of the mono- and dibasic acids were obtained. The authors carried out the synthesis of the complex vinylethers with dibasic (4-atomic) oxyacid (d-tartaric acid) experimentally. The obtained divinylether of tartaric acid is a slightly +-- colored vis-

cous liquid which is soluble in sulphuric ether, acetone, benzene, and alcohol. The divinglether of tartaric acid is poly-

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CIA-RDP86-00513R001549910019-2 "APPROVED FOR RELEASE: 08/09/2001

The Synthesis of the Complex Livinyl Ether of Tartaric Acid 62-1-22/29

merizable in presence of benzoilparoxide or of the dimitryl of azoiso-butyric acid and co-polymerizes with the methylether of the methylacrylic acid. There are 4 references, 1 of which is Slavic.

ASSOCIATION:

Institute of Organic Chemistry imeni D. D. Zelinskiy, AS USSR (Insitut organicheskoy khimii im. N. D. Zelinskogo Akademii

nauk SSSR)

SUBMITTED:

July 19, 1957

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1. Vinyl ethers-Synthesis

Card 2/2

"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-

CIA-RDP86-00513R001549910019-2

SHCS 7HKCC6

Shostakovskiy, M. F., Shmonina, L. I.

62-1-23/29

TITLE:

On the question of the Production of Hexachlorobutadiene

(K voprosu o poluchenii geksakhlorbatadiyena)

PERIODICAL:

Izvestiya AN SSSE Otdeleniye Thimicheskikh Mauk, 1958

Nr 1, pp. 109 - 111 (USSA)

ABSTRACT

Hexachlorobutaciene belongs to the best solvents for many organic substances. There are many papers in literature describing the various kinds of the synthesis of hexachlorobutadiene. There is also a series of patents. It was, however, interesting to find also other ways of synthesis, starting from the available raw material. In the previous report of the laboratory of the authors it was proved that it is possible to obtain hexachlorobutadiene on the basis of diazetylene. Furthermore the authors were interested to detect whether it is possible to obtain a substance starting from butindiole (formulae (1) to (4)). These reaction were up to now only partly realized. The authors obtained 1,4 -dichlorbutine according to the known method of (Johnson, ref. 4) with a yield of 80%. It turned out that 1,4-dichlorobutine does not combine at all with chlorine under the given conditions. The realization of this reaction succeeded (with a yield of $\sim 98\%$) by chlorination in a solution

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On the question of the Production of Hexachlorobutadine

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of tetracarbon at a temperature of -40, -500 with a yield of ~75%. Furthermore it was shown that in the chlorination of 1,2,3,4 -tetrachlorobutadiene in dependence on the conditions of the reaction 1,1,2,4,4-hexachkrobutene as well as octachlorobutine can be obtained. There are 6 references, 2 of which are Slavic.

ASSOCIATION:

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

SUBLITTED:

July 27, 1957

AVATIA BLE:

Library of Congress

1. Hexachlorobutadiene-Synthesis 2. Solvents-Production

Card 2/2

AUTHORS:

Shostakovskiy, E. F., Sidel kovskaya, F. P. 62-1-24/29

TITLE:

Investigation in the Field of Lactones and Lactans (Issledo-

vaniye v oblasti laktonov i laktamov).

Report 11: Condensation of Ethylene Oxide with Lactams (So-

obshcheniye 11.Kondensatsiya okisi ctilena s laktamami)

PERIODICAL:

Izvestiya AN SSSR Otdeleniye Khimicheskikh Nauk, 1958,

Nr 1, pp 111 - 115 (JSSR)

ABSTRACT:

The reaction of the condensation of organic oxides with lactams has hitherto not been described in literature. In the present paper the interaction of payethylene with pyrrolidone and caprolactanes was investigated. The process took place at a temperature of 20, 60, and 200° in the presence of H₂O, CH₃OH, H₂SO₄ (or without them). At temperatures of 20 and 60° the oxyethylene did not react with pyrrolidone. At 200-210° an interaction between the above mentioned substances took place with formation of W-(B-oxyethyl)pyrrolidone, formerly synthetized from butyrolactone and ethanolamine 5 (table 1). In order to confirm the structure N-(B-hydroxyethyl)-pyrrolidone was transformed into chloroethylpyrrolidone by interaction with chlorothionyl. The yield of chloroethylpyrrolidone amounted to ~900. The results of the other experiments are shown in the table. There are

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Investigation in the Field of Lactones and Lactams Report 11: Concensation of Ethylene Oxide with Lactams

62-1-24/29

1 table, 6 references, 2 of which are Slavic.

ASSOCIATION:

Institute of Organic Chemistry Ineni N. D. Zelinskiy AS USSR (Institut organicheskoy khimii in. N.D. Zelinskogo Akademii

nauk SSSR)

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July 26, 1957

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1. Ethylene oxide-Condensation reactions 2. Lactams-Chemical

reactions

Card 2/2