Vinylation of Monorce tone-1-71. Who see the set of the

AUTHORS:	Mikhant'yev, B. I., Pryakhina, E. A. 207 156 -8-3-38, 53
TITLE:	The Synthesis of Ethyl, Isopropyl and n-Pro yl-~-Methylallyl-acetal (Sintez etil-, izopropil- i n-propil-a-metilallil-atsetaley)
FE: IODICAL:	Nauchnyve doklady vysshey shkoly, Khimiya i kniminheskaya tekhnologiya, 1958, Ng 3, pp.550-552 (USSR)
ABSTRACT:	The authors investigated the interaction between $\alpha$ -methylalcohol with vinylethyla, vinylisopropyland vinylan-propyl esters in the presence of acids acting as catalysts. Ethylisopropyl and napropylamethylallylacetal are produced in a yield of 70-80%. The following syntheses were carried out: the synthesis of ethylamethylallylacetal with boiling point 39-41°C, $d_A^{(20)} = 0.8351$ , $nD^{(20)} = 1.4050$ , in a yield
	of 77,7 %; the synthesis of isopropyl- $\alpha$ -methylallylacetal with boiling point 52-53 °C, d <sub>2</sub> <sup>20</sup> = 0,8315, nD <sup>20</sup> = 1.4067 in a yield of 100 %; the synthesis of n-propyl- $\alpha$ -methylallyl-scetal with a boiling point at 60-63 °C, d <sub>2</sub> <sup>20</sup> = 0,83n9.
Card 1 2	nD <sup>20</sup> = 1,4096, in a yield of 97,3 - 97,7 %. The hydration of the acetal was carried out on a nickel skeleton catalyst.

The Synthesis	SOV 156 36-3-34 12 of Ethyl, Isotropyl and n-Protyl-a-Methylallylandtal
	There are A reference, which are Soviet.
AS. COTATION:	Kafedra in a vysokomolekulyarnykh noyedineniy aor a in a or aori, nitvennoso universiteta (Chair for the Chamitry of High Holecular Compounds at Voronezh State University:
JURM ITTED:	January 17, 1958
Jari 2,12	

AUTHORS: Mikhant'yev, B. I., Parlov, L. P. 307/156-58-4-37/49

TITLE: The Cyclic Acetals of the Iscmeric Hydro Benzoins

(Tsiklicheskiye atsetali izomernykh gidrobenzoinov)

PERIODICAL: Nauchnyye doklady vysshey shkoly. Khimiya i khimicheskaya

tekhnologiya, 1958, Nr 4, pp 757-758 (USSR)

ABSTRACT: In the interaction of meso and rac. hydro benzoin with simple

vinyl ester, cyclic acetals (mesoshydro benzoin acetal and rac. hydro benzoin acetal) are formed. The syntheses of the initial products of rac. hydro benzoin with a yield of 45-50% and mesc hydro benzoin with a yield of 37.5% are described in detail. The elementary analysis of the cyclic acetals was carried out and the empirical formula was given. During hydrolysis the acetals are converted into the initial hydro benzoin. The cyclic acetal of the meso hydro benzoin was prepared in a yie'd of 70.8%. After a double crystallization from alcohol, cyclic acetal was separated in the form of fineneedled crystals. The crystals have their melting point at 43.5-44, boiling point at 103-104°C and refractive index

 $n_D^{20} = 1.5562$ , density  $d_D^{20} = 1.1021$ . The compound is easily Card 1/2

SOV/156-58-4-37/49

少们是自己的自己的证明的证明。这个公式和这个社会的**对话,可以是是一个人的证明,可以是一个人的证明,** 

The Cyclic Acetals of the Isomeric Hydro Benzoins

soluble in ester and alcohol, insoluble in water and unstable in air. The preparation of the cyclic acetal of the rac. hydrobenzoin gave a yield of 22.8%; it is colorless, scentless and liquid. The boiling point is at  $105-106^{\circ}$ C and the refractive index is  $\frac{20}{D} = 1.5570$ . The compound mixes with ordinary organic solvents and decomposes in air. There are 8 references, 4 of

which are Saviet.

ASSOCIATION: Kafedra khimii vysokomolekulyarnykh soyedineniy Voronezhskogo

gosudarstvennogo universiteta (Chair of Chemistry of the Compounds of High Molecular Weight at the Voronezh State

University)

SUBMITTED: January 17, 1958

Card 2/2

30V 156-58-4-38 49

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AUTHORS: Mikhan'iye., E. I., Sk yar ., 7. A., Semen b, E. A.

The Preparation of the Voyl Bater of the Archite-9-Carbonic TITLE:

> Adid and Their In. mplace Adylaca Polither ye vint covogo efira akridin-9 karburuny kisinty i vego tepo nykh atsilaley

PERIODICAL: Nauchnyve lok, ady bysshey shkoly. Khimiya . knimicheskaya

tekhn . .g.ya, 1958, Nr 4 pp 759-760 (USSR)

ABSTRACT: By wany arish of a writine compounds wanyl esters of the adridine-

9-harding at 1 and their incomplete acyla's were prepared. The preparation of the army, ester was carried out according to the

method developed by Faworsk. Schostakowski (Favorskiy-

Shostakovskiy) at 1800 under a pressure of 20 atmospheres. The yield is 24%. The compound is easily solution in this mater,

benzene, toluene, d. water and ther organic solvents. The

mesting point is at Par at C. Incomplete acylab of the composed vinyl ester was prepared with methyl hyplohexame in the reflux autorlane. The aly alleas we low a guid with aromatic scent, it is somether in organic so vents and decomposes when heated.

The yield is 55%. The elementary analysis gave the following form, at  $C_{23}H_{\odot}$  03N. The improved has the following character-Card 1, 2

SOV, 156-58-4-38/49

The Preparation of the Vinyl Ester of the Acridine-9-Carbonic Acid and Their Incomplete Acylals

istics:  $n_D^{20} = 1.538$ ;  $d_4^{20} = 1.05$ ; MR = 105.99. The incomplete

acylal of the composed vinyl ester of the acridine-)-carbonic acid with heptanol was prepared in a yield of 30%. The acylal is a light green liquid with a strong odor. The empirical formula is  $C_{23}H_{27}O_3N$  and has the following characteristics:  $C_{23}H_{27}O_3N$  and has the following characteristics:  $C_{23}H_{27}O_3N$  and has the following characteristics:  $C_{23}H_{27}O_3N$  and has the following characteristics:

Kafedra vysckomolekolyarnov khimii Voronezhakogo gosudarstven-ASSOCIATION:

nogo universiteta (Chair of Chemistry of Highmoleculars at

the Varousk State University)

SUBMITTED. March 22, 1948

Card 2/2

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507/3-58-11-9/38 AUTHOR: Mikhant'yev, B.I., Doctor of Chemical Sciences; Professor,

University Rector

TITLE: The Opinion of the University Staff (Mneniye kollektiva uni-

versiteta;

一个主义的证明的程序需要的根据是特别的现在分词是可能是经验的证明。在1000年的

PERIODICAL: Vestnik vysshey shkoly, 1958, Mr 11, pp 25 - 27 (3):2)

Having discussed M.S. Khrushchev's report to the TsF Fresi-ABSTRACT:

dium of the KFGS, the staff of the Voronezh University came to the conclusion that a thorough reorganization of its educational and scientific activity is necessary. In recent years the number of stidents with practical experience is steadily increasing. In 1957, they comprised 40 % of those admitted to the University's regular day-time department, and this year 60 %. Beginning with 1959, it will be

possible, and necessary, to enroll into the Voronezh University only production workers. Exceptions should be permitted only in respect to outstandingly talented boys and girls. The age of admittance is  $2^{\circ}$  to 35 years, and for

those coming direct from school - over 19 years. The evening and correspondence departments should adopt the same principles. The 8-month preparatory courses for production

workers and demobilized soldiers are of considerable import-

Card 1/2 ance and should be somewhat enlarged so as to accomodate

。中国建筑社会,就是由西西西部,1941年,和大学的中国大学的大学的主要的主义。 (1952年) 1945年,1956年,1956年,1956年,1956年,1956年,1956年,1956年,1956年,1956年,1

The Opinion of the University Staff

30V/3-58-11-9/38

300 students. Admittance should take place on recommendations from public organizations. Stationary education at the university will last 5 years. The author gives further details, in respect to scholarships, practical training, future employment, and payment of grants to all students of the 5th and 6th course. He comments on evening and correspondence education and on the necessity of a 3 year period of actual work in his speciality, before the graduate prepares his graduation thesis. The author suggests that at the same time the student gets his marks on his academical progress, his participation in social activity should also be discussed.

ASSCCIATION: Voronezhskiy gosudarstvennyy universitet (Voronezh State University)

Card 2/2

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033920018-4"

MIKHANT'YEV. RI.

AUTHORS:

Mikhant'yev, B. I., Pavlov, L. P.

71-2-42/64

TITLE:

Vinylization of Hydrobenzoin, I (Vinilirovaniye gidrobenzoina.I.)

PERIODICAL:

Zhurnal Obshchey Ehimii, 1958, Vol. 28, Nr 2, pp. 487-409 (UDDR)

ABSTRACT:

The major part of the more simple vinylethers is obtained according to A. Ye. Favorskiy and M. F. Shostakovskiy (ref. 1). The vinylization of fatty aromatic and aromatic alcohols with some hydroxyles is less known. The present paper shows a synthesis of mezo-a,a'-divinyldioxydibenzyl from acetylene and hydrobenzoin hitherto not yet described in technical literature. A direct vinylization was carried out in an autoclave, at a maximum pressure of 60 atm. and a temperature of 130-1350C for 6 hours. The hydrolytic oxymation and the quantitative hydration of the product obtained indicated two vinyl groups. Mezo-a-a'-diethoxydibenzyl was obtained from the product by hydration in the presence of nickel. There are 5 references, 3 of which are Slavic.

ASSOCIATION:

Voronezh State University (Voronezhskiy gosudarstvennyy

universitet)

Card 1/2

82579 \$/081/60/000/006/008/008 A006/A001

5.3831

Translation from: Referativnyy zhurnal, Khimiya, 1960, No. 6, p. 664, # 25205

第一种的抗性人类的心理性的导致逐渐共享的内容等的特征的动态,可能够多多。但是一种的人的人的人的人的人的人的人的人的人的人的人的人的人的人的人的人的人。 第一种人的人类

AUTHORS: Mikhant'yev, B.I., Sklyarov, V.A., Fedorov, Ye.I.

TITLE: On the Polymerization and Copolymerization of Vinyl-n-Butyl Ester

PERIODICAL: Tr. Voronezhsk. un-ta, 1958, Vol. 43, pp. 41-44

TEXT: Polymerization of vinyl-n-butyl ester (I) under the effect of FeCl<sub>3</sub> at 80-90°C and 50-700 mm Hg pressure (P) entails the formation of a polymer with a molecular weight (M) of 14,200. I is easily polymerized in n-C<sub>4</sub>H<sub>9</sub>OH and (C<sub>2</sub>H<sub>5</sub>)<sub>2</sub>O solutions under the effect of BF<sub>3</sub> (temperatures (t) -30C, P 760 mm Hg, M 6400). Copolymers of I with divinyl (II) were obtained under the effect of BF<sub>3</sub> (P 760 mm, t -5°C, M 10,400). The copolymers are soluble in (C<sub>2</sub>H<sub>5</sub>)<sub>2</sub>O, C<sub>6</sub>H<sub>6</sub>, benzine, CCl<sub>4</sub>, CHCl<sub>3</sub> and are not soluble in (CH<sub>3</sub>)<sub>2</sub>CO, acetoacetic ester, and dioxane. At 180°C they darken, harden and become insoluble in organic solvents. Copolymerization of I and II under the effect of FeCl<sub>3</sub> and P<sub>2</sub>O<sub>5</sub> does not take place to a noticeable degree.

R. Milyutinskaya
Translator's note: This is the full translation of the original Russian abstract.
Card 1/1

5 (3) AUTHORS:

Mikhant'yev, B. I., Fedorov, Ye. I.

SOV/153-2-3-15/29

TITLE:

Synthesis of Vinyl Pyridone and Some of Its Derivatives

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy. Khimiya i khimicheskaya tekhnologiya, 1959, Vol 2, Nr 3, pp 390-391 (USSR)

ABSTRACT:

By vinylation of 2-pyridone with acetylene the authors synthesized N-vinyl-2-pyridone. This reaction was carried out under pressure at 145 - 150° in the autoclave. Dioxane was used as solvent, the duration of vinylation was 6 hours. The product obtained yields N-ethyl-2-pyridone in the catalytic hydrogenation. The working conditions in this synthesis were the following: hydrogenation during 2 hours at 17° and 300 torr pressure with the use of a nickel catalyst. N-1,2-dichloro ethyl-2-pyridone was obtained by chlorination of N-vinyl-2-pyridone in carbon tetrachloride as solvent. Moreover, the authors synthesized N-vinyl-5-Br-2-pyridone by the action of acetylene on 5-Br-2-pyridone. Dioxane was used as solvent, the reaction was carried out in the autoclave at 150-160°. These four syntheses are described in detail in an experimental part. Yields, compositions, and physical data of the products obtained are given. There are 3 references,

Bord 1/2

Vorone, L. State Union, "hair of high Maderalan Compounds

S/138/59/000/010/005/010 A051/A029

AUTHORS:

Mikhant'yev, B.I.; Rayevskiy, A.B.

TITLE:

The Divinyl-Styrene ω-Polymer

PERIODICAL:

Kauchuk i Rezina, 1959, No. 10, pp. 24 - 27

TEXT: The mechanism of  $\omega$ -polymerization was studied. In this connection the initiating stage is of particular interest. The reaction mechanism was investigated at various ratios of divinyl to styrene in the absence of peroxides or triggers and at various temperatures. The effect of different amounts of hydrogen peroxide and elementary oxygen on the  $\omega$ -polymerization was also studied. The experimental procedure is outlined in detail and the results of the investigation are discussed. By making a comparative study of the  $\omega$ -polymerization rate with and without trigger (Fig. 1), it was seen that the reaction in both cases takes several hours, whereas the difference in the induction period is 240 hours. It is concluded that the extent of the induction period depends mostly on the processes which lead to the formation of the  $\omega$ -polymer nucleus. As scon as the nucleus appears in the system, the rate of the reaction progressively increases and shortly after it almost all the monomers are converted to the  $\omega$ -polymer  $\omega$ -polymer  $\omega$ -polymer.

Card 1/3

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S/138/59/000/010/005/010 A051/A029

The Divinyl-Styrene  $\omega$ -Polymer

mers are formed simultaneously in the system, which can be seen from the increase in viscosity and by the presence of benzene-soluble products in the  $\omega$ -polymer. In the experiments with triggers the induction period can be explained by the effect of traces of oxygen, namely, if the polymerization is conducted in an atmosphere of elementary oxygen the induction period becomes twice as long. The temperature coefficient of the reaction rate was computed from the difference of these rates at temperatures of 30, 50 and  $70^{\circ}$ C. The formula

 $\delta = \sqrt{\frac{\Lambda^2}{\Lambda^2}}$ 

is derived, where  $\chi$  is the temperature coefficient of the reaction rate, and  $V_1$ ,  $V_2$  are the rates of polymerization. Several conclusions could be drawn from the experimental results: 1) The optimum ratio of divinyl to styrene for the  $\omega$ -polymerization at 50°C in the absence of a trigger was found to be 0.17 mole/mole. 2) The temperature coefficient of the  $\omega$ -polymerization rate in the presence of a trigger was found to be 1.70. 3) Molecular oxygen increases the induction period of the  $\omega$ -polymerization by a factor of two, without affecting the rate. 4) Isopropylbenzene hydrogen peroxide, at 0.1 weight % quantity, does not noticeably affect the  $\omega$ -polymerization. With a further increase in the concentration, the rate of polymerization decreases. There are 5 graphs, 2 tables and 14 references: 6

Card 2/3

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The Divinyl-	Styrene W-Polymer	<b>S</b> /1 <b>3</b> 8/ <b>5</b> 9/000/016/005/016			
Soviet, 6 En	glish and 2 German.				
ASSOCIATION:	Voronezhskiy zavod thetic Rubber)	sinteticheskogo	kauchuka	(Voronezh Plant of Syn-	_
Card 3/3					

Mikhantiyev, B. I., Pryakhina, E. A. SOV, 79-29-1-38,74 AUTHORS: Synthesis of Ethylo, Isage, p.-Propyle, Is talke, TITLE: r Butyle and Islamyl-Or tyl Aroual (Sinthz etil-, in Frifier, \*\*\*; representation of production of the control of the contr Zhurna - tabohay khomul, 1909, Vol 29, Nr 1, II 179 181 (USSR) PERIODICAL: The a etals of the unsaturated ethylene altahols (I) have been ABSTRACT: little in cost.gated so far. However, they can be used for varing them; at transformations. The present investigation dealt with the synthesis of acetals, on the casts of or tyl ald reason ringlealkyl ethers according to the following CH<sup>2</sup> CH= CHCH OH · CH<sup>2</sup>= CHOR→ CH<sup>2</sup> CH CH CHCH<sup>2</sup> The affiliation of the brotyl alcohol to the vanyl-alkyl withers process on an excitermor way. 30% hydrochloro acto was user and a catalyst. The stryl , isopropyin, nopropying isority, , notityin, and iscaryl crotyl aletals synthesized are readily a tite liquids of tasting flavor. The quantitative Card 1/2

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Sov. 79-29-1 f8,74

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5(3) AUTHORS:

Mikhant'yev, B. I., Pavlov, L. P.

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SOV/79-29-4-41/77

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TITLE:

Synthesis of  $\alpha$ -Vinyloxydibenzil (Sintez  $\alpha$ -viniloksidibenzila)

PERIODICAL:

Zhurnal obshchey khimii, 1959, Vol 29, Nr 4, pp 1230-1231 (USSR)

ABSTRACT:

In the vinylation of hydroxy compounds of the diphenylethane series with acetylene by the method developed by A. Ye. Favorskiy and M. F. Shostakovskiy (Ref 1) the authors obtained the vinyl ether of  $\alpha$ -oxydibenzil (of phenylbenzylcarbinol) (I). It was found that the affiliation of acetylene in the presence of caustic potash takes place at a satisfactory velocity at  $160-170^{\circ}$ . As a by-reaction at this temperature the water splits off from  $\alpha$ -oxydibenzil, and stilbene is formed, as had already been pointed out in previous publications (Ref 2). Vinyl ether and the ethyl ether of  $\alpha$ -oxydibenzil (II) obtained from vinyl ether by hydrogenation over the skeleton nickel catalyst decompose, like the initial alcohol, during normal distillation as well as when heated with a 20-30% sulphuric acid solution. In either case the stilbene yield is satisfactory (Refs 2-4).

Card 1/2

Synthesis of  $\alpha$ -Vinyloxydibenzil

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$$CH_{2} - CH - CH_{2} - CH_{2} - CH_{2} - CH_{3}$$
(I)

(II)

(II)

(II)

(II)

The experiments carried out so far proved the capability of  $\alpha$ -vinyloxydibenzil of polymerizing under the influence of the ether compound  $(CH_3)_2$  0  $\longrightarrow$  BF<sub>3</sub> ( $\longrightarrow$  denotes the semipolar bond)

into viscous and solid resins. Ethyl ether can be easily brominated. During this process hydrogen bromide is removed. Thus  $\alpha$ -vinyloxydibenzil was synthesized from acetylene and  $\alpha$ -oxydibenzil, and  $\alpha$ -ethoxydibenzil was obtained by hydrogenating the former. There are 6 references, 1 of which is Soviet.

ASSOCIATION:

Voronezhskiy gosudarstvennyy universitet (Voronezh State Uni-

versity)

SUBMITTED:

March 1, 1958

Card 2/2

#### CIA-RDP86-00513R001033920018-4 "APPROVED FOR RELEASE: 07/12/2001

5 (3)

AUTHORS: Mikhant'yev; B. I., Pedorov, Ye. I., SCV/79-23-6-25/72

Kucherova, A. I., Potapova, V. P.

N-Allyl-pyridone-2 and 2-Alloxy-pyridine and Their Hydrogena. TITLE:

tion Products (N-Allilpiridon-2 i 2-alloksipiridin i produkty

CLARK STATES OF SOURCE IN THE VALUE OF STATES OF STATES

ikh gidrirovaniya)

PERIODICAL: Zhurnal obshchey khimii: :359 Vol 29, Nr 6, pp :874 - :875

(USSR)

A. Ye. Meralust (Ref. 1) synthesized the N-allyl quinolone-2 ABSTRACT:

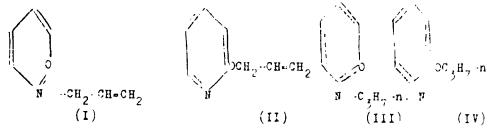
by reaction of the potassium salt of quinolone-2 with allyl bromide and tried to synthesize the 2-alloxy-quinoline from 2chloro-quinoline and sodium allylate. The 2-alloxy-quinoline however was transformed by distillation under normal pressure into the N-allyl-quinolone-2. Considering the similarity of the chemical properties of quinolone-2 and pyridone-2 the authors tried the analogous synthesis on the basis of the sodium salt of pyridone-2 and obtained the N-allyl-pyridone-2 (I). By reaction of 2-chloro-pyridine with sodium allylate the 2-alloxy--pyridine was formed (II). In order to avoid the isomerization

of compound (II) into the N-allyl-pyridone 2 the product was from the reaction mixture in the vacuum (1.5 mm). distilled

Card 1/2

N-Allyl-pyridone-2 and 2-Allexy-pyridine and Their V/79-23-6-20/72
Hydrogenation Products

The hydrogenation of N-allyl pyridone 2 and 2-alloxy-pyridine on the skeleton-nickel catalyst yielded the corresponding N-n -propyl pyridone -2 (III) and 2-propoxy-pyridine (IV).



There are 3 references.

ASSOCIATION: Voronezhakiy gosudaratvannyy universitet (Varonezh State

University)

SUBMITTED: May 15, 1956

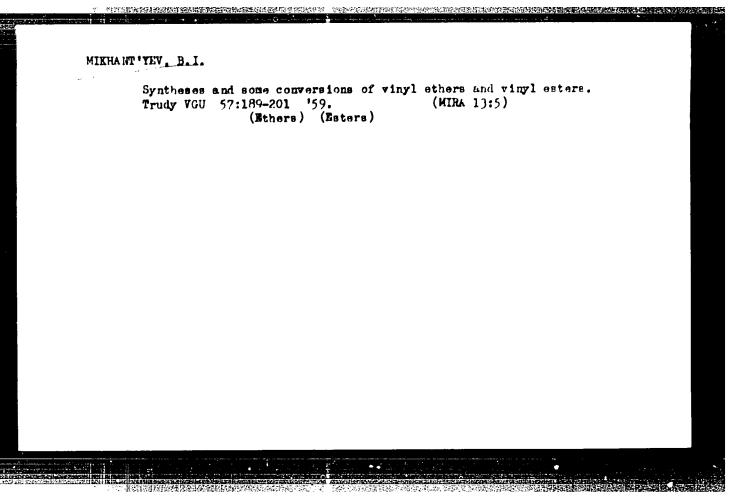
Card 2/2

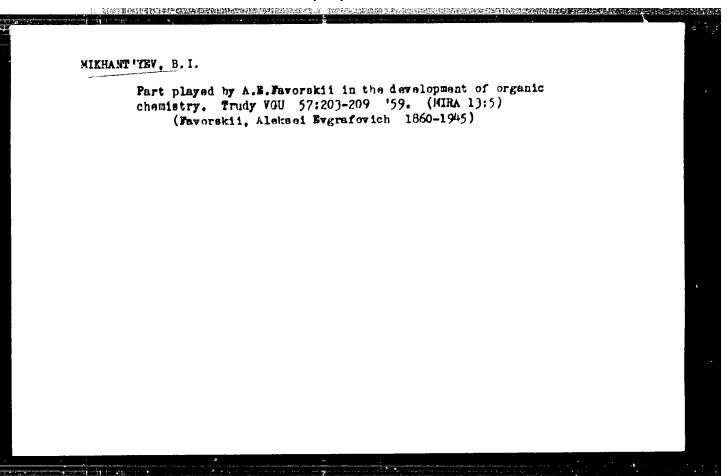
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MIKHANT'TEV, B.I.; TARASOVA, A.V.; SKLTAROV, V.A.; MEDOROV, Ye.I.

Acetals. Report No.2. Trudy VGU 57:177-187 '59.
(Acetals)

(Acetals)





# PHASE I BOOK EXPLOITATION SOV/5225

- Mikhant'yev, Boris Ivanovich, Anatoliy Yakovlevich Shatalov, and Igor' Kirillovich Marshakov
- Polimery novyye korrozionno-stoykiye materialy (Polymers; New Corrosion-Resistant Materials) Voronezh, Izd-vo Voronezhskogo univ., 1960. 106 p. 5,000 copies printed.
- Scientific Ed.: I. Ya. Klinov, Doctor of Technical Sciences, Professor, Ed. of Publishing House: G.F. Biryukov, Tech. Ed.: M.V. Novikov.
- PURPOSE: This book is intended for teachers in higher schools of education. It may be used by chemical engineers and technicians of plant laboratories, technologists and foremen, as well as workers who are interested in improving their skills.
- COVERAGE: The book reviews the causes and types of corrosive destruction to metals and alloys exposed to external conditions, and discusses methods and means of replacing nonferrous metals and alloyed steels with new corrosion-resistant

Card 1/3

Polymers; New Corrosion-Resistant Materials SOV/5225 materials based on synthetic polymers and natural and synthetic resins. The main physicochemical properties are given for the structural plastics which have received wide practical application in the national economy, and especially in anticorrosion engineering. No personalities are mentioned. There are 68 Soviet references (including 2 translations). TABLE OF CONTENTS: Organic Synthesis in the Service of Metallurgy 3 Diseases of Metals and Methods for "heir Prevention. How and Why Matals Corrode 8 Physicochemical Properties of High-Molecular Compounds and Methods of Processing Them 18 Corrosion Resistance of Polycondensed Plastics 32 Card 2/3

S/138/60/000/002/002/009 A051/A02)

AUTHORS: Mikhant'yev, B.I., Rayevskiy, A.B.

TITLE: The Inhibition of  $\omega$ -Polymerization

PERIODICAL: Kauchuk i Rezina, 1960, No. 2, pp. 3 - 6

TEXT:  $\sqrt{\phantom{a}}$  The nature of  $\omega$ -polymerization is little known. The divinyl styrene  $\omega$ -polymer, which is formed in the production of rubber by the emulsion method, is harmful, since it closs the apparatus and causes a breakdown in the equipment. It is stressed, therefore, that the development of a method for the prevention of  $\omega$ -polymer formation is of great practical significance. The authors used sulfur, polysulfide of sodium, n-oxydiphenylamine, quinone, hydroquinone and isopropyl benzene hydroperoxide as inhibitors. It was found that hydroquinone inhibits  $\omega$ -polymerization 2 to 4 times as effectively as quinone. Elemental sulfur in a 0.05% dosage increases the induction period of the  $\omega$ -polymerization by a factor of 2. An aqueous solution of polysulfide of sodium, after dilution or processing with air, is a good inhibitor of  $\omega$ -polymerization. N-oxydiphenylamine in hibits  $\omega$ -polymerization well. The induction period increases 8 times with Card 1/2

\$/138/60/000/002/002/009 A051/A029

The Inhibition of  $\omega$ -Polymerization

(4) 中医型固定性医硬性细胞性原因性内侧的原因性医疗性原因性医疗

a dosage of 0.01% of the latter. Since the porous polymer is formed in the production apparatus in the presence of water or perhaps oxygen, the experiment was directed at a study of the inhibitors in the presence of these latter components. The authors previously pointed out in Reference 4, that oxygen increases the induction period of the  $\omega$ -polymerization considerably In the present work the behavior of oxygen introduced into the system at the end of the induction period was also investigated and it was noted that it does not inhibit the w-polymerization in this case As a result of the experiments the authors conclude that sulfur, sodium polysulfide and neoxy diphenylamine can be recommended for use as inhibitors of  $\omega$  -polymerization in industry. There are 6 figures, 3 tables and 4 references: 2 Soviet and 2 English.

ASSOCIATION: Voronezhskiy Gosudarstvennyy universitet i Voronezhskiy zavod sinteticheskogo kauchuka im. S M Kirova (Voronezh State Uni versity and Voronezh Synthetic Rubber Plant imeni S.M. Kirov)

Card 2/2

S/153/60/001/003/03:/01/7X B016/B058

AUTHORS: Mikharty P. P. L. Lajerke V. L.

TITLE: Interaction of Montage Districtions so With All the

and Organ. Acids

PERIODICAL: Iznestiya vysanikh z necrykh zanedeniy. Khimiya i

khiminheskaya tektri. giya 1960 Vot 3 No. 3.

pp. =60 56°

TEXT: The authors report or the synthesis of an acetal parried out by them: 3 (n=butoxy 2-ethyloden= 1.2 for disappropyloden= 1 glu use in the presence of concentrated  $\mathrm{disSU}_{3}$  as a latalyst. They further synthetize

ed two anylals: '(form xy & etc) iders (2-5.6 disappropyliders diglusose and 3 (a etcxy-2 etcy.ifre t 2 % 6 disappropyliders diglusose. Monovinyl diaceters diglus se served as initial compound to the systemats of all three materials. The aletal was produced to sugh a simulation of nebutyl alebhol in the initial compound the acylals through accomplation of forming a ideal action of forming a ideal action of forming a ideal action of forming a ideal action.

Card 1/2

#### "APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033920018-4 了。但你就是这种的自然的投资的的发展的特别的特殊的自然也可以,但是这么可以一个是这个是这些的人的多数,但是这些的的人,但是这种的的,我们也是**没有的的人,这么可以**

Interaction of Mon viny. Dia etime d gla-\$/153/60/001/003/035/035/XX nose With Altohol and Cremm A . 19 PL 1/ ROSÁ

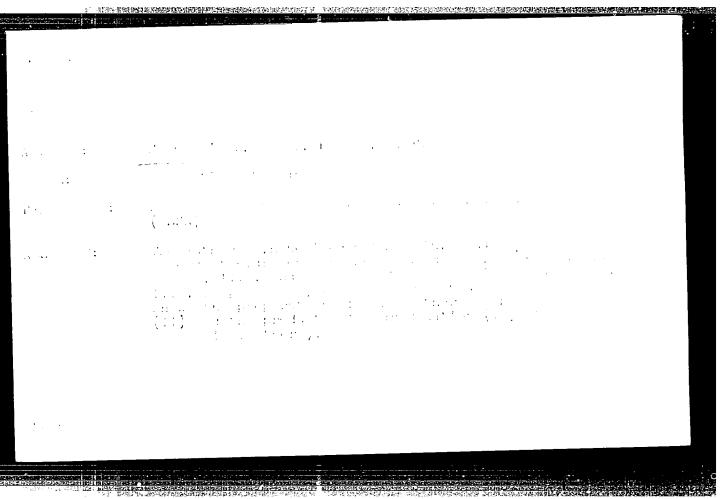
a synthesis from d a strond which as Ruff he and singler buttle start gregared according to the less facts defect the field of here 4. In order to satisfy themselves regarding the sorth size of the a year All souther red mate rials form transparent transpa discolor bromine water. The authora mention the constants, empired formula las, calculated and trained yields of three substances.

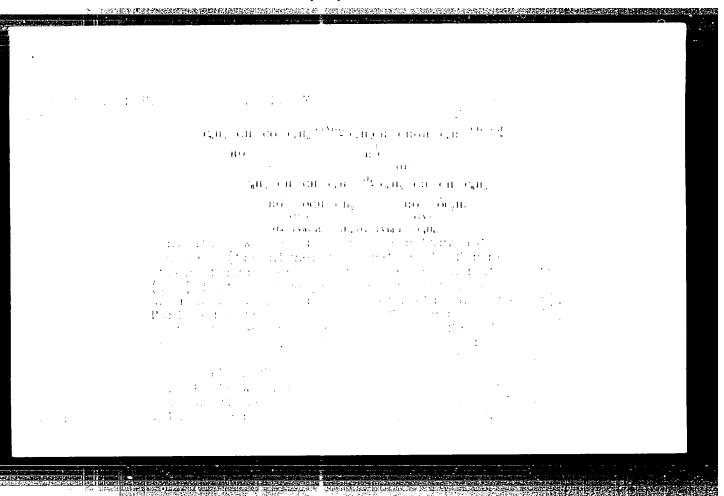
ASSOCIATION: Voronezoskiy gosularst enry, iniversitet; Kafedra khimi. vys.k.mr. kulyannykh eryelinen.; (Vor.nezh State Unimers.

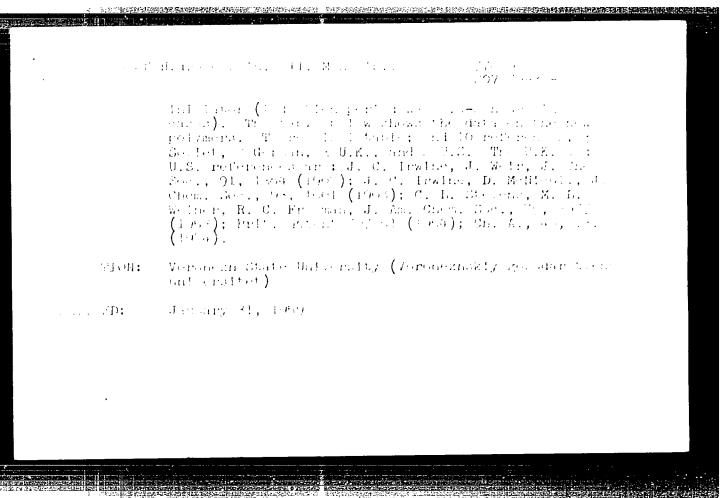
ty; Coarr f Chemistry of High molecular 7 m; units

SUBMITTED: Notember to come

Card 2/







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5.3610

77890 807/79-30-6-4/19

AUTHORS:

Mikhant'yev, B I., Fedorov, E. I.

TITLE:

Allylation of Amino and Bromoaminopyridines

PERIODICAL:

Zhurnal obshchey khimii, 1960, Vol 30, Nr 2, pp 508-570 (USSR)

ABSTRACT:

Allyl chloride reacts with 2-sodium derivatives of aminopyridine, 5-bromo-aminopyridine, and 3,5-dibromo-aminopyridine, forming a responding 2-allyl-aminopyridine (I), 5-bromo-2-allylaminopyridine (II), and 2,5-dibromo-2-allylaminopyridine (III).

Properties of Allylaminopyridines

		*TOPET CLEB	OI ALL YIEMI	ucbartaine	?S	
Nr	Obtained product	bp/mm pr	mp	<sub>n</sub> 20	₫ <sup>20</sup>	Yield (%)
1	I	56-58/1	-	1.5676	1.0241	6:2
5	II	-	50-50.7	-	_	يرب
3	111	108-110/1.5	-	1.6297	1.7744	+', '

Compounds I, II, and III were hydrogenated over skeleta. Ni at room temperature, at atmospheric pressure, and the corresponding beneficiarinopyridine (IV), 5-bromo-2-n-propylaminopyridine (V), and

Card 1/2

Allylation of Amino and Bromoaminopyridines

3-5, dibromo-2-n-propylaminopyridine (VI) were obtained.

Properties of Propylaminopyridines

Obtained product	bp/mm pr	mp	n <b>g</b> C	<u> </u>	V16.d (%)
LA	66-67/1.5	-	1.5468	5,9935	d
7	•	4C 3-41	-	-	80
VI	95-96/2	-	1.8090	1.7153	90.5
	Obtained product T7 '7 VI	IV 66-67/1.5	17 66-67/1.5 - 4C.3-41	T7 66-67/1.5 - 1.5468 7 - 40.3-41 -	17 66-67/1.5 - 1.5468 5.9935 7 +C.3-41

There are 2 tables; and 3 references, 2 Soviet, 1 Austrian

ASSOCIATION ·

Voronezh State University (Voronezhskiy gosudars\*/ennyy Universite)

SUBMITTED

February 4, 1959

Card 2/2

5.3400 Sold the commender. AUTHORS: Mikhantlyev, B. I., Pryakaina, E. A. TITLE: Vinylation of Ethylene Glycol Monoethers PERIODICAL: Zhurnal obshchey khimit, 1960, 761 30, Nr 3, pr yer-ABSTRACT: Synthesis of ethylene glycal monacthers with allyl radicals was studied. CH<sub>2</sub>OR CH<sub>2</sub>OR CH<sub>2</sub>OR CH<sub>2</sub>OCH CH<sub>2</sub> (I) E (alla (II) E (laf Heacheria (II) E (light the Heal) The following compounds were obtained from ethylene glycol, metallic Na (added at 50°), and corresponding alkyl halides (added with heating on water bath): monobutyl ether of ethylene glycol (61%), bp 78-86° (22 mm),  $d_4^{20}$  0.8981,  $n_D^{20}$  1.4197;  $\alpha$ -methylallyl ether of ethylene glycol (17.6%), bp 68-70° (20-21 mm), Card 1/2

Vinylation of Ethylene Glycol Monoethers

SOV/79-30-3-44/69

 $d_4^{20}$  0.9147,  $n_D^{20}$  1.4310; monocrotyl ether of ethylene glycol (27.6%), bp 85-67° (21-22 mm),  $i_4^{20}$  5.4377,  $n_D^{20}$  1.4428. The following vinyl ethers were obtained by vinylation of the ethers in autoclaves (max pr 45 atm) at 150° with 10% KOH: viny; butyl ether of ethylene glycol (70%), bp 70-72° (20-21 mm),  $a_{\rm b}^{\rm 20}$  0.8653,  $n_{\rm b}^{\rm 20}$  1.4213; vinyl crotyl ether of ethylene glycol (5%), by  $77-86^{\circ}$ , (21-22 mm) d<sub>4</sub> 0.8958, n<sub>D</sub> 1.4410; vinyl q-methylallyl ether of ethylene glycol (69%), bp 72-74 (36 mm),  $d_4^{20}$  0.8761,  $n_D^{20}$  1.4300. There are - references, 1 U.S., 3 Soviet. The U.S. reference is: W. H. Watanabe, L. E. Conlon, J. Am. Chem. Scc., 79, 2828 (1957).

ASSOCIATION:

Voronezh State University (Voronezhskiy gosudarstvennyy

universitet)

SUBMITTED:

March 24, 1959

Card 2/2

MIKHANT YEV, B.I.; LAPENKO, V.L.

Vinylation of diacetone-S-galactose. Zhur.ob.khim. 31 no.6:1843-1844 Je '61. (MIRA 14:6)

1. Voronezhskiy gosudarstvennyy universitet. (Galactose)

MIKHANT'YEV, B.I.; PRYAKHINA, E.A.

Synthesis of acetals based on vinyl ethers of n-butyl- and crotyloxyethanols. Zhur.ob.khim. 31 no.8:2766-2768 Ag '61. (MIRA 14:8)

1. Voronezhskiy gosudarstvennyy universitet.
(Acetals) (Ethanol)

27507 \$/079/61/031/009/008/012 D215/D306

5.3400

AUTHORS:

Mikhant'yev, B.I., and Mikhant'yew, B.B.

TITLE:

O-Aminophenylvinyl and p-aminophenylvinyl ethers

PERIODICAL: Zhurnal obshchey khimii, v. 31, no. 9, 1961,

3050 - 3051

TEXT: M.F. Shostakovskiy and I.A. Chekulayeva (Ref. 1: Izv. AN SSSR Okh.N., 1954, 1111) prepared vinyl ethers of ethanolamines and decided that acetylene adds only to the hydroxyl groups of diethanolamine. However, diarylamines and acridone have been found to vinylate through the amino group. The presence of both groups in aminophenols allows the addition of two vinyl groups thus producing ortho- and pere-aminophenylvinyl ethers. Both ethers are prepared by reacting the corresponding aminophenol with acetylene under pressure, in the presence of KOH and aqueous dioxon. The ortho-ether boils at  $87.5-88.5^{\circ}$  C/10 mm, and has the empirical formula CaHqON,

Card 1/2

27507 \$/079/61/031/009/008/012 D215/D306

ELICIES PROCESSOR DE LA COMPANSA DE

O-Aminophenylvinyl and ...

 $n_D^{20}$  - 1.5706,  $d_4^{20}$  - 1.0975; the para-ether boils at 103-104  $^{0}$ C/10mm,  $n_D^{20}$  - 1.5788,  $d_4^{20}$  - 1.080. Both ethers polymerize in the presence of boron trifluoride and copolymerize with vinylbutylether. Hydrogenation of any of the ethers on skeletal nickel gives the corresponding aminophenylethyl ether. There are 4 references, 2 Sovietbloc and 2 non-Soviet-bloc.

ASSOCIATION: Voronezhskiy gosudarstvennyy universitet (State Uni-

versity of Voronezh)

SUBMITTED: October 7, 1960

Card 2/2

(MIRA 14:11)

MIKHANT'YEV, B.I.; PAVLOV, L.P.

Acetals of hydrobenzoin ethers. Zhur. ob. khim. 31 no. 11:3643-

1. Voronezhskiy gosudarstvennyy universitet. (Hydrobenzoin) (Ethers)

3646 N 161.

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L 141-64 EPR/ENP(j)/EPF(c)/ENT(m)/BDS AFFTC/ASD PE-4/PC-4/PT-4 RM/NN/ACCESSION NR: AR30069h2 S/0081/63/000/010/0698/0698 MAY

SOURCE: RZh. Khimiya, Abs. 10T499

AUTHOR: Mikhant'yev, B. I., Kretinin, S. A., Shatalov, V. P.

HERE THE BEST OF THE PARTY OF T

TITLE: Study of the properties of divinyl-styrene rubbers filled in the latex stage

CITED SOURCE: Tr. Labor. khimii vy sokomolekul. soyedeneniy. Voronezhsk. un-t, vy p. 1, 1962, 162-169

TOPIC TAGS: Divinyl-styrene rubber, latex stage, rubber

TRANSLATION: A study was made of the conditions of filling SKS-30AR with HAP carbon black, channel carbon black, Al sub 2 0 sub 3, PN-6 oil, auto scrap-18, and mazut at the latex stage and on rollers. Carbon black dispersions were prepared with a magnetic striction vibrator with a frequency of 25 kilocycles (concentration of carbon black of 15%, vibration time of 20 minutes). With

Card 1/2

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L 141-64 ACCESSION NR: AR3006942

the introduction of 0.2-0.5% leucanol the vibration time is lowered to 5-10 minutes. The combination of latex with the dispersion of carbon black and the oil emulsion was also conducted through vibration for 3-5 minutes. The mixture was coagulated by CaCl sub 2 with H sub 2 SO sub 4 or CH sub 3 COOH. The expenditures per ton of commercial rubber with HAF carbon black were: CaCl sub 2 -- 30 kg, CH sub 3 COOH -- 1.9 kg; with channel carbon black; CaCl sub 2 --15.6 kg. CH sub 3 COOH -- 8 kg. The product which was obtained was dried at 80-90 degrees with forced ventilation. Upon introducing the carbon black into the latex a more plastic mixture was obtained which yielded stronger and more elastic vulcanized rubbers; the speed of vulcanization was increased. Dispersions with leucanol yielded better rubbers than without it. A basic technological plan for the production of carbon black-butyric rubbers was proposed. A 20% aqueous solution of Al sub 2 0 sub 3 was prepared in a ball mill (30 rev/min) for 3 hours at about 20 degrees. The expenditure of CaCl sub 2 for the coagulation of 1 ton of commercial rubber was 47 kg. There was no loss of Al sub 2 0 sub 3 during the coagulation of the latex mixture. The introduction of Al sub 2 0 sub 3 into the latex produced more plastic mixtures and stronger vulcanized rubbers than when it was introduced on rollers. G. Chasovshchikov

DATE ACQ: OlJul63

SUB CODE: CH, MA

ENCL: CO

Card 2/2

CIA-RDP86-00513R001033920018-4" **APPROVED FOR RELEASE: 07/12/2001** 

MIKHANT'YEV, B.I.; PAVLOV, L.P.; LAPENKO, V.L.

Halogenated ethers of hydroxybenzoin. Zhur.ob.khim. 32 no.6 1798-1801 Je '62. (MIRA 15:6)

1. Voronezhekiy gosudarstvennyy universitet.
(Benzoin) (Ethers)

品的支持的企业,但是中国的企业,从是对于1000年的公司,1000年的1000年的1000年的1000年的1000年的1000年中的1000年中的1000年中的

MIKHANT'YEV, B.I.; LAPENKO, V.L.; PAVLOV, L.P.

Vinylation of mannitol and its aceto derivatives. Zhur.ob.khim. 32 no.8:2505-2508 Ag \*62. (MIRA 15:9)

1. Voronezhskiy gosudarstvennyy universitet.
(Mannitol) (Vinylation)

THE STATE OF THE S

MIKHANT'YEV, B.I.; RADZHYUNAS, L.V.

Vinyl ethers of o- and m-hydroxydiphenylamines. Izv.vys.ucheb.zav.; khim.i khim.tekh. 6 no.4:697-698 '63. (MIRA 17:2)

1. Voronezhskiy gosudarstvennyy universitet. Kafedra khimii vysokomolekulyarnykh soyedineniy.

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033920018-4"

MIKHANT'YEV, B.I.; FEDOROV, Ye.I.

Allylation of chloroaminopyridines. Zhur.ob.khim. 33 (MIRA 16:3)

1. Voronezhskiy gosudarstvennyy universitet. (Fyridine)
(Allyl compounds)

27017-07	EPF(c)/EPR/EWP(j)/EWI(m	)/T Pc-4/Pr-4/	ba-1 Rbr B	(/ww	
ACCESSION	NR: AR5006368		S/0081/64/00	0/024/S031/S032	
SOURCE: R	ef. zh. Khimiya, Abs. 24Sl	L82		9 5	
AUTHOR: M Shmygaleva	ikhant'yav, B. I.; Sklyarc	Shatsman, F. D.	ov, Ye. I.; Av	onomova, M. D.; G.; Afanasov,	
F. P.				$\eta$	
TITLE: Po	lymerization and copolymen	rization of simp	le vinyl ether		
CITED SOUR	CE: Tr. Labor. khimii vy: 163, 3-11	sokomolekul. soy	edineniy. V <u>oro</u>	ezhsk. un-t,	
TOPIC TAGS	: polymerization, copoly	merization, viny	l ether, polym	er, copolymer	1
TRANSLATIO	N: The possibility of pro	oducing high-mol	ecular polymer	and copolymers	3
mm DNAEGIN	ntyl ester was investigated the and 80-90°C vinylbutyl	ester is polymer	ized to form a	product with a	
	watche of the one A noty	mer with a molec	ular weight of	6,400 is obtained	
at normal	pressure and -3°C in the lith divinyl in the presence catalyst, in whose presence.	e of BF, or ferr	ic chloride; B	appears to be	
merized w			th the molecula	ir weight or	· .

#### L 35073-65

ACCESSION NR: AR5006368

2

10,400 is produced at -5°C. Chains of vinylbutyl ester predominate in the structure of the copolymer, and transverse bonds are present on account of the divinyl chains. The copolymerization of vinylbutyl ester with divinyl does not occur under the effect of phosphorus anhydride and ferric chloride. The polyvinylethyl ester is copolymerized with styrene (1:1) in the presence of ferric chloride and in the ratio of 1:2 in the presence of the dinitrile of azoisobutyric acid. The copolymers produced have a molecular weight of 58,000-76,000 and form films resistant to water and dilute solutions of acids and bases. Vinylbutyl ester is copolymerized with styrene in a 1:1 ratio (FeCl, as catalyst) and 1:8 ratio (BF, as catalyst); products with molecular weight of 21,000-50,000 are formed. The vinylphenyl ether is also copolymerized with styrene in ratios of 1:1 and 2:1 in the presence of the esterate of BF, (as catalyst), and is also copolymerized with heating in ratios of 1:1, 1:2, and 2:1 at 100-105°C. Solid copolymers are obtained with molecular weights of 48,500-92,000. Copolymers of N-vinylacridone and styrene are produced in mass and in emulsion; N-vinylacridone, styrene, and divinyl are produced in emulsion and also N-vinylacridone, styrene, divinyl and acrylonitrile. The products have molecular weights of 200,000-650,000. Of the rubber-like materials most plastic was the latter copolymer, containing N-vinylacridone, styrene, divinyl, and acrylonitrile in the ratio 1:16:29:22. N-vinylacridone reduces the solubility and increases the hardness of the copolymers. S. Bass

Card 2/3

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033920018-4

1, 35073-65 ACCESSION NR: AR5006368		
SUB CODE: 2 OC, GC	ENCL: 00	6
Card 3/3		

RM/WW EPF(c)/EPH/EWP(1)/EWT(m)/T Pc-L/Pr-L/Ps-L L 35072-65 \$/0081/64/000/024/8032/8032 ACCESSION NR: AR5006369 SOURCE: Raf. zh. Khimiya, Abs. 248183 AUTHOR: Mikhant'yev, B. I.; Yadreyev, F. I. TITLE: Polymerization and copolymerization of higher vinylalkyl ethers CITED SOURCE: Tr. Labor. khimii vysokomolekul. soyedineniy. Voronezhsk. un-t, vyp. 2, 1963, 19-23 TOPIC TACS: polymerization, copolymerization, polymer TRANSIATION: The polymerization of vinyldodecyl, vinyltridecyl, and vinylheptadecyl ethers and their copolymerization with vinylbutyl ether in benzene were investigated. FeCl; in butanol and BF; esterate, which are active even in very small quantities; were the catalysts used. Polymerization of all the ethers under study proceeds smoothly although initial slight cooling is required (to ~10°C) along with intensive mixing since in the opposite case the reaction is violent and the temperature is raised to 90-140°C. The resultant polymers of the higher alkyl ethers are yellow solids having a melting point from 38 to 50°C, and are readily soluble in all organic solvents (except alcohols) at ~ 20°C. Depending on the depth

l 35072-65		
ACCESSION NR: AR5005369		0
of polymerization their mol Data from X-ray structural high degree of ordering. T ether are viscous products	analysis indicates the higher	100 to 7700 (cryoscopically). cucture is characterized by a alkyl ethers with vinylbutyl ared structures. S. Bass
SUB CODE: OC, LC	ENCLI 00	
50B COLD 15.00		
Card 2/2		

1 22031-66 EWT (m)/FWP(j) GS/RM SOURCE CODE: UR/0000/63/000/000/0024/0027
ACC NR: AT6005935 SOURCE CODE: UR/0000/63/000/000/0024/0027

AUTHORS: Mikhant'yev, B. I.; Radzhyunas, L. V.

ORG: <u>Laboratory for the Chemistry of High-Molecular-Weight Compounds</u>, Voronezh State <u>University</u> (Laboratoriya khimii vysokomolekulyarnykh soyedineniy Voronezhskogo gosudarstvennogo universiteta)

TITLE: Vinylation of aminophenols

SOURCE: Voronezh. Universitet. Laboratoriya khimii vysokomolekulyarnykh soyedineniy. Trudy, no. 2, 1963. Monomery, khimiya i tekhnologiya SK (Monomers, chemistry, and technology of synthetic rubber), 24-27

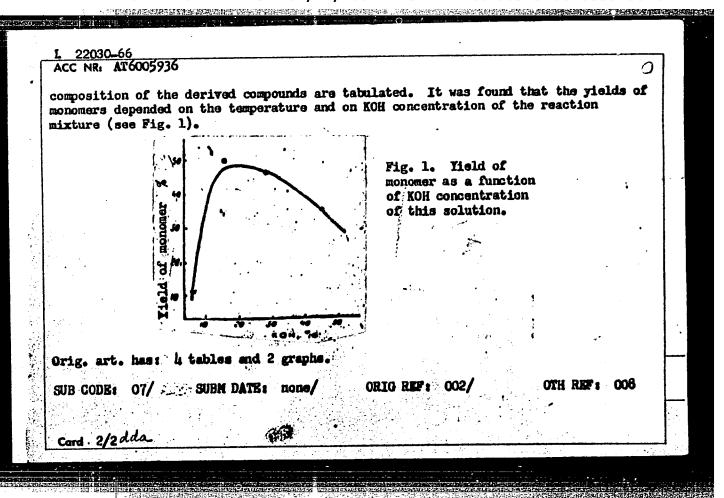
TOPIC TAGS: organic nitrogen compound, organic synthetic process, aromatic ether, aromatic hydrocarbon, phenol

ABSTRACT: This investigation is a continuation of work published by B. I. Mikhant'yev and V. B. Mikhant'yev (Zhoki, 31, 3050, 1961). The aminophenylvinyl ethers, m-aminophenylvinyl ether and n,n'divynyldiphenylamine ether were synthesized after the method of A. Ye. Favorskiy and M. F. Shostakovskiy (Zhokh, 13, 1, 1943). The reactions were carried out according to the schemes:

**Card 1/2** 

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saction y ynthesise UB CODE:	d compo	melting unds ar	points	e mole	cular we Orig. 6	ights irt. he	and el	ementa equati	L comp	osition OTH REF		
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ynthesise	d compo	melting unds ar	points	s, mole	cular we Orig. 6	ights irt. he	and eless 4	ementa equati	L comp			

用的对比较强强,但是不是有效的,但是这种企业是是有的的企业,是一个的对比,这种是不是一个一个的对比较多的,但是可能的对比较强,这种的对比较<mark>的,是是不是不是不是不是不是</mark> ENT(m)/ENP(1) IJP(c) GS/RM <u>L 22030–66 EVT (</u> ACC NR. AT6005936 SOURCE CODE: UR/0000/63/000/000/0028/0035 31 AUTHORS: Mikhant'yev, B. I.; Radzhyunas, L. V. 9:+1 ORG: Laboratory for the Chemistry of High-Kolecular-Weight Compounds, Voronezh State University (Laboratoriya khimii vysokomolekulyarnykh soyedineniy Voronezhskogo gosudarstvennogo universiteta) TITLE: Vinylation of aminophenols containing a tertiary nitrogen atom SOURCE: Voronezh. Universitet. Laboratoriya khimii vysokomolekulyarnykh soyedineniy. Trudy, no. 2, 1963. Monomery, khimiya i tekhnologiya SK (Monomers, chemistry, and technology of synthetic rubber), 28-35 TOPIC TAGS: organic nitrogen compound, organic synthetic process, aromatic ether, aromatic hydrocarbon, monomer ABSTRACT: This investigation is an extension of the works published by B. I. Mikhant'yev and V. B. Mikhant'yev (ZhOKh, 31, 3050, 1961) and by B. I. Mikhant'yev and L. B. Radzhyunas (Izv. vysshikh uchebnykh zavedeniy. Khimiya i khim. tekhnologiya, 6, vyp. 4, 697, 1963). In this study m-(N,N-diethyl)-eminophenylvinyl ether ME(N,N-dimethyl)-eminophenylvinyl ether, and p-(N,N,-dimethyl)eminophenylvinyl ether were synthesized after the method of A. B. Favorskiy and M. F. Shostakovskiy (2hOKh, 13, 1, 1943). Picrates of the vinyl and ethyl ethers were also synthesized. The product yields, melting points, boiling points, refractive indices, and molecular Card 1/2



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E E		
•	L 22029-66 EWT (m)/EWP(1)/T GS/RM GOUNDE CONE. HP/0000/67/000/7/000/9	
ſ	ACC NR. AT6005937 (A) Sounce code: Unyoccopy obtained a	
	4/	
	AUTHORS: Mikhant'yev, B. I.; Kretinin, S. A.; Shirokov, Yu. P.	
- 1	ORG: Laboratory for the Chemistry of High-Molecular-Weight Compounds, Voronezh	
-+	State University (Laboratoriya khimii vysokomolekulyarnykh soyedineniy Voronezhskogo	
	gosudarstvennogo universiteta)	
	· · · · · · · · · · · · · · · · · · ·	
	TITLE: Synthesis and polymerization of certain titancorganic compounds containing	
	unsaturated radicals	
	and the second s	
	SOURCE: Voronezh. Universitet. Laboratoriya khimii vysokomolekulyarnykh soyedineniy. Trudy, no. 2, 1963. Monomery, khimiya i tekhnologiya SK (Monomers,	
	chemistry, and technology of synthetic rubber), 47-49	
	TOPIC TAGS: organometallic compound, organitianium compound, titanium compound,	
	organic synthetic process, titanium, polymerization	
	ABSTRACT: The organotitanic compounds	
	ABSTRACT: The organotitanic compounds  (CHe-CH-CH-CH-Ö) Ti ani (CHe-CH-C-CHeO) Ti  OCHe  OCHe	
	(CH <sub>1</sub> -CH-CH-CH <sub>2</sub> O)(II) and (CH <sub>1</sub> -CH-C-CH <sub>2</sub> O)(II)	
	OCH,	_
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## L 22029-66

ACC NR. AT6005937

were synthesized to extend the work of S. V. Nogina, R. Kh. Freydlina, and A. N. Nesmeyanov (Izv. AN SSSR, OKhN, 3, 327, 1950). The compounds were synthesized by reacting TiCl<sub>4</sub> · 8NH<sub>3</sub> in dry benzene with 2-methoxybuten-3-ol-1 and with 2-methoxy-2 methylbuten-3-ol-1 respectively. The intermediate products were synthesized after the method of A. A. Petrov (ZhOKh, 11, 991, 1941; ZhOKh, 16, 1625, 1946) and of A. N. Pudovnik and S. G. Denislamova (ZhOKh, 27, 2363, 1957). Reaction yields and the characteristic physical constants for the synthesized compounds are tabulated. The polymerization of the synthesized compounds was studied. Only thermopolymerization and polymerization induced by orthophosphoric acid yielded polymers. Metallic sodium, BF<sub>3</sub>, FeCl<sub>3</sub>, and benzoyl peroxide did not induce polymerization. The polymers obtained were ruby-red in color, brittle, and showed a poor adhesion to glass. Orig. art. has: 2 formulas.

SUB CODE: 07/ SUBM DATE: none/ ORIO REF: 007 OTH REF: 001

Card . 2/2dla

37019-65 EWT(m)/EPF(c)/EPR/EW	P(1) Pc-4/Pr-4/Ps-4 WW/RM	
CCESSION NR: AR5003012	8/0081/64/000/020/8082/8082	
OURCE: Ref. zh. Khimiya, Abs. 2085	and the second of the contract of the contrac	
arking R. I. Senvus. 10.	in, S. A.; Gostev, M. M.; Shatalov, V. P.;	
ign-temperature polymerization	liled with carbon black and oil and produced by	
yp. 2, 1963, 103-108	sokomolekul. soyedineniy. Voronezhsk. un-t,	
ler, gas black filler, channel black polymerization, rubber mechanical practid, colophony, latex coagulation	diene rubber, styrene rubber, carbon black fil- k filler, oil filled rubber, high temperature roperty, rubber emulsifier, synthetic fatty	
the SKS-30 type, produced by high-t	he properties of butadiene-styrene rubbers of emperature polymerization with the addition of and 50.0 parts by weight gas black, channel The following combinations were tested as	

L 37019-65 THE COLUMN TWO DESIGNATIONS OF THE PROPERTY OF K soaps of synthetic fatty acids; the K soap of hydrogenated colophony and the K soaps of synthetic fatty acids. The 20% carbon black dispersions were prepared by grinding in a ball will for 24 hrs. in the presence of 4-6 parts by weight leukanol and G.6 parts by weight NaOH (in relation to the carbon black). The oil emulsion was of commercial origin. During the coagulation of mixtures from Nekal latex, the best results were produced by CaCl2 and CH3COOH; in the case of latex produced with the soaps of synthetic fatty acids, the best results were produced by a mixture of CaCl2, NaCl and CH3COOH; in the case of colophony latex, NaCl and H2SO4 gave the best results. During deformation of the initial rubber with 4500 g. raw mixtures of rubber filled with carbon black and oil (SMK rubber) had a somewhat greater plasticity and less reducibility than when carbon black was added to oil-filled rubber on the rollers. The strength of the SMK vulcanates was somewhat lower, however. The method of introducing the carbon black had no significant effect on the properties of rubber mixtures and vulcanates in soft rubber. The properties of rubber do depend, however, on the method of coagulation. The instantaneous (single-stage) coagulation of SMK rubber resulted in somewhat more rigid mixtures with increased strength and decreased relative elongation. A. Shvarts. SUB COUST

L 41103-66 ENT(m)/ENP(j)/T IJP(c) RM
ACC NR. AR6021268 (A) SOURCE CODE: UR/0081/66/000/004/S030/S030
AUTHOR: Mikhant'yev, B. I.; Shatelov, G. V.
TITLE: Polymerization of piperylene. Report 2. Polymerization of trans- and cis-piperylene in the presence of the dissobutylaluminum chloride and alcoholic cobaltous chloride complex catalytic system
SOURCE: Ref zh. Khim, Part II, Abs. 48188
REF SCURCE: Tr. Labor. khimii vysokomolekul. soyedineniy. Voronezhak. un-t, vyp. 3, 1964, 83-86
TOPIC TAGS: catalytic polymerization, alkene, polymerization catalyst, tensile strength, elongation, fluid viscosity
ABSTRACT: Pure isomers were separated from the amylene-piperylene fraction. Polymerization was carried out for 8-10 hours at 20° in dry oxygen-free argon in glass ampoules in 20-30% solution in absolute benzene. Catelyst was 3% diisobutyleluminum chloride (I) and 0.01-0.02% CoCl <sub>2</sub> on the weight of the monomer. Percentage of conversion was 75-85%. The polymer consists primarily of 1,4- and 1,2-cis groups. Decreasing the amount of the alcoholic CoCl <sub>2</sub> complex does not cause a change in the polypiperylene structure but reduces [7]. Reducing the amount of I to
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L 41103-66	
ACC NR: AR6021268	
2% and reducing reaction time leads to a decrease in polymer yield and [7]. The latter is also reduced by raising the temperature to 40°. A carbon black yulcanizate of the polymer has a tensile strength of 160 and 101 kg/cm² at 20° and 100° and relative elongation of 760 and 490%, respectively. Report 1, see R. Zh. Khim., 1964, 248175. I. Gritskova. Translation of abstract.	
SUB CODE: 07	:
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Card 2/2 11b	

L 33751-66 EWT(m)/EWH(J)/T 60 RM
ACC NR: AR6016783 (A) SOURCE CODE: UR/0081/65/000/023/S026/S026

AUTHOR: Shatalov, V. P.; Afanasov, P. P.; Mikhant'yev, B. I.

TITLE: Forymerization of isoprene under the influence of a homogeneous "cobaltic" system

SOURCE: Mef. zh. Khimiya, Abs. 238166

REF SOURCE: Tr. Labor. khimii vysokomolekul. soyedineniy. Voronezhsk. un-t, vyp. 3, 1964, 87-89

TOPIC TAGS: isoprene, catalytic polymerization, aluminum compound

ABSTRACT: The polymerization of isoprene (I) on an Al(iso-C<sub>2</sub>H<sub>9</sub>)<sub>2</sub>Cl (II) catalytic system (2 to 4%), with a CoCl<sub>2</sub> alcohol complex (III) (0.01%) and an addition of acrylnitril at various ratios of the components: (1:8:4, 1:8:8 and 1:16:4) is studied. The reaction was carried out without the presence of O<sub>2</sub> and moisture in an absolute benzene solution at 20 to 40° and the following concentrations: (I) 20%, (II) and (III) 2 to 4% and 0.01% (to I). The yield of the polymer is 49 to 80% of mol. wt. 105 800 - 193 400, cis - 1.4 links content of 60 to 69%, 1.4-trans 29 to 38% and 3.4 about 2%. The polymer is practically entirely soluble in bensene. The amount of gel-fraction amounts to only a few percent. V. Dudkin.

SUB CODE: 07/ SUBM DATE: none

Card 1/1 Bug

L 42875-66 EWT(m)/EWP(j)/T ACC NR. A36024955 (A) SOURCE CCDE: UR/0081/66/000/006/5029/5029

Mikhant'yev, B. I.; Mikhant'yev, V. B.; Kalmykov, V. V.

Polymerization and copolymerization of vinyl compounds at reduced pressure

SCURCE: Ref. zh. Khimiya, Part II, Abs. 68192

REF SOURCE: Tr. Labor. khimii vysokomolekul. soyedineniy. Voronezhsk. un-t. vyp. 3, 1964, 94-95

TOPIC TAGS: vinyl compound, copolymerization, ether

ABTRACT: In the polymerization (PM) of vinyl ethers of higher fatty alcohols in the presence of ferric chloride at the boiling point of the initial ether and at atmospheric pressure, these ethers partly decompose at the boiling point (150-200°), and the polymers obtained are insufficiently viscous and are contaminated with the alcohol and monomer. According to the proposed method of PM and copolymerization of high-boiling vinyl compounds, the process is carried out in a vacuum (e.g., a residual pressure of 12-18 mm) and at a reduced temperature (e.g., 40-70°). The method makes it possible to obtain high-qu'lity products in 85-90% yield of theoretical, no depolymerization takes place, and the polymers obtained are pure. Example. The PM of vinyl hexyl ether (100 g) is carried out in a flask connected to a straight condenser, which is followed by a condensate receiver. The latter is connected to an aspirator; after the latter has been connected, heating of the flask containing the reaction mixture is started (on a water bath). At the instant the ether begins to boil, Kt (2-4 drops of Card 1/2

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•	5% alcohol solution of ferric chloride) is introduced through a capilla action proceeds quietly, and the partly unreacted monomer is driven off straight condenser and collected in the receiver. E. Bukhina. [Transstract]	through the
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ACC NR: AR6015910 (A) SOURCE CODE: UR/0081/65/000/022/S027/S027

AUTHOR: Fedorov, Ye. I.; Mikhant yev, B. I.; Fursova, L. Ya.

TITIE: Emulsion copolymerization of 2-allylaminopyridine and N-vinyl-2-pyridone with bivinyl and styrene?

SOURCE: Ref. zh. Khimiya, Abs. 22S157

REF SOURCE: Tr. Labor, khimii vysokomolekul, soyedineniy. Voronezhsk, un-t, vyp. 3, 1964, 100-104

TOPIC TAGS: emulsion polymerization, copolymerization, pyridine, vinyl compound, styrene

ABSTRACT: The copolymerization (CP) of N-vinyl-2-pyridone and 2-allylaminopyridine with bivinyl and styrene was carried out in an emulsion, the latex obtained was tested for bonding cord with rubber, and the effect of ultrasound on the adhesive properties of the latex were studied. The emulsion CP was carried out at 20° and a ratio of the hydrocarbon phase (HP) to the aqueous phase of 100:150; the HP consisted of 70% bivinyl and 30% styrene (the pyridine derivatives were introduced by decreasing the amount of styrene); the aqueous phase (in % of HP) consisted of: water 150, synthetic fatty acid (C10-C16) 4, KOH 0.9, hydroquinone 0.035, Na<sub>2</sub>SO<sub>3</sub> 0.2, trilon B 0.025, cumene hydroperoxide 0.25, Leukanol 0.5, diproxid 0.2. The copolymers B, C,

Card 1/2

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ACC NR: AR6015910

D contained 3.1, 5.53, and 4.1% of pyridine derivatives respectively. The impregnant for the cord was prepared from latex, resorcinol-formaldehyde resin, and a carbon black dispersion. It is shown that admixtures of pyridine derivatives do not appreciably affect the bonding of the cord to the rubber; an increase in the static strength of the bond is observed only in latex B in the case of rubber based on synthetic butadiene rubber; irradiation with ultrasound does not affect the adhesive properties of the latexes. A. Zak. [Translation of abstract]

SUB CODE: 07,11

E /T(m)/E//P(j) L 40962-66 IJP(c) 三番/JWD ACC NRI AR6016972 (A) SOURCE CODE: UR/0081/65/000/024/3077/3078 Mikhant'yev, B. I.; Gostev, M. M.; Kretinin, S. A AUTHOR: TITLE: Carbon black-oil filled butadiene styrene rubber of low temperature polymerization obtained in a system with a Trilon Rongalite activating group SOURCE: Ref. zh. Khimiya, Abs. 245547 REF SOURCE: Tr. Labor, khimii vysokomolekul. soyedineniy. Voronezhsk. un-t, vyp. 3, 1964, 186-190 TOPIC TAGS: butadiene styrene rubber, filler, cerbon black, polymerization catalyst, elasticity, tensile strength ABSTRACT: The possibility of using channel and gas furnace blacks in reinforcement in SKS-30 ARK platex prepared with the Trilon Rongalite activating group was investigated. The carbon blacks were introduced into the latex as 20% dispersions stabilized with K-soaps of hydrated or disproportionated rosin. The following proportions of stabilizer were necessary to obtain stabilized dispersions: for channel black 4-5 parts by weight, for furnace black 3.5 parts by weight, for their mixtures (1:1) 5-6 parts by weight. Introduction of both carbon blacks and their Card 1/2

·	在2、1994年的基本的自由的自身的是由1995年的自己的企业的企业。1995年,1995年,1995年,1995年,1995年,1995年的1995年,1995年的1995年,1995年,1995年的1995年,199	<b>公司用的政策的</b>
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ACC NR: A	R6016972	<u></u>
ind with c	to the latex gives vulcanizates with lower modulus and greater. The strength of vulcanizates with furnace black is higher hannel black it is lower than when the carbon black is added ls. M. Ayzinson. Translation of abstract.	
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MIKHANT'YTV, B.I.; LAPENKO, V.L.

Vinylation of acetone derivatives of sorbitol dulcitol. Zhur.ob.khim. 34 no.2:694-696 F '64. (MIRA 17:3)

1. Vorone zhskiy gosudarstvennyy universitet.

Problem of intrampled lar donor-acceptor interaction. Lock.
AN SOSP 156 no. 5:1109-1111 Je '64. MIFA 1905

1. Voronezhskiy posudarstvennyy universitet. Fredstavlenc akademikom M.I.Kabashnikom.

MIKHANT YEV, B.1.; FARR HY NAC, L.V.

Vinyl ethers of some ; -aminophenols. Thur. on. knim. 34 no. 1 : 34/4-34/5 C 'ea. (MITA 17:1)

1. Voronezhskiy gosuderstvennyy universitet.

L 42875\_66 EWT(m)/EWP(j)/T ACC NR WW/RM 126024955 SOURCE CODE: UR/0081/66/000/006/3029/5029 AUTHOR: Akhant'yev, B. I.; Akhant'yev, V. B.; Kalrykov, V. V. Polymerization and copolymerization of vinyl compounds at reduced pressure SCURCE: Rof. zh. Khimiya, Part II, Abs. 65192 REF SOURCE: Tr. Labor. khimii vysokomolekul. soyedineniy. Voronezhsk. un-t. vyp. 3, 1964, 94-95 TOPIC TAGS: vinyl compound, copolymerization, ether ABSTRACT: In the polymerization (P.C) of vinyl ethers of higher fatty alcohols in the presence of ferric chloride at the boiling point of the initial ether and at atmospher ic pressure, these ethers partly decompose at the boiling point (150-200°), and the polymers obtained are insufficiently viscous and are contaminated with the alcohol and monomer. According to the proposed method of PM and copolymerization of high-boiling vinyl compounds, the process is carried out in a vacuum (e. g., a residual pressure of 12-18 mm) and at a reduced temperature (e. g., 40-70°). The method makes it possible: to obtain high-quality products in 85-90% yield of theoretical, no depolymerization takes place, and the polymers obtained are pure. Example. The PM of vinyl hexyl ether (100 g) is carried out in a flask connected to a straight condenser, which is followed by a condensate receiver. The latter is connected to an aspirator; after the latter has been connected, heating of the flask containing the reaction mixture is started (on a water bath). At the instant the ether begins to boil, Kt (2-4 drops of <u>Card</u> 1/2

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action pro	solution of ferric chloride) is introduced through oceeds quietly, and the partly unreacted monomer is decondenser and collected in the receiver. E. Bukhina	riven off through the
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MIKHANOVSKIT, Vladimir Naumovich; SHUN, M.S., otv red.;

NAZARENKO, L.M., red.; TROFIMENKO, A.S., tekhn. red.

[Electromagnetic defectoscopy in constant and variable fields] Elektromagnitnaia defektoskopiia v postoiannom i peremennom pole Khar kov, Izd-vo Gos.univ. 1963.

57 p (Magnetic testing)

(Pipe mills--Quality control)
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27507 S/079/61/031/009/008/012 D215/D306

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5 3400

AUTHORS: Mikhant'yev, B.I., and Mikhant'yen, B.B.

TITLE: 0-Aminophenylvinyl and p-aminophenylvinyl ethers

PERIODICAL: Zhurnal obshchey khimii, v. 31, no. 9, 1961,

3050 - 3051

TEXT: M.F. Shostakovskiy and I.A. Chekulayeva (Ref. 1: Izv. AN SSSR Okh.N., 1954, 1111) prepared vinyl ethers of ethanolamines and decided that acetylene adds only to the hydroxyl groups of diethanolamine. However, diarylamines and acridone have been found to vinylate through the amino group. The presence of both groups in aminophenols allows the addition of two vinyl groups thus producing ortho- and para-aminophenylvinyl ethers. Both ethers are prepared by reacting the corresponding aminophenol with acetylene under pressure, in the presence of KOH and aqueous dioxon. The ortho-ether boils at  $87.5-88.5^{\circ}\text{C/10}$  mm, and has the empirical formula  $C_8H_{\rm Q}ON$ ,

Card 1/2

O-Aminophenylvinyl and ...

27507 S/079/61/031/009/008/012 D215/D306

nD - 1.5706, d<sub>4</sub><sup>20</sup> - 1.0975; the para-ether boils at 103-104°C/10mm, nD - 1.5788, d<sub>4</sub><sup>20</sup> - 1.080. Both ethers polymerize in the presence of boron trifluoride and copolymerize with vinylbutylether. Hydrogenation of any of the ethers on skeletal nickel gives the corresponding aminophenylethyl ether. There are 4 references, 2 Soviet-

ASSOCIATION: Voronezhskiy gosudarstvennyy universitet (State University of Voronezh)

SUBMITTED: October 7, 1960

Card 2/2

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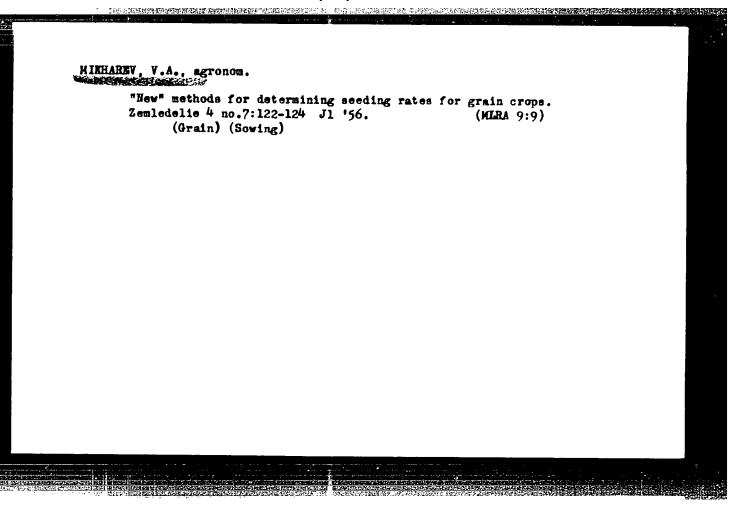
[Congenital meart defect; clinical aspects, diam riveral surplied treatment] conthennye poroki sending kinnika, diamodtika i khirungichedke lechenhe. Itilidi, ludevo Ali Benz. Co., Red. 11A j. 1.1 kordani.

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GOROKHOV, I., inzh. (Zhdanov); GRANKOV, L., inzh. (Zhdanov); RAKHMANOV, N., inzh.-mayor, izobretatel'; BASKAKOV, Yu. (Chernogorsk); PERFIL'YEV, N. (Moskva); GLINCHEVSKIY, V. (Penza); KORNEV, M., inzh. (Kiyev); MIKHAREV, P., konstruktor (Orenburg*; D'YACHKOV, M. (Irkutsk)

How interesting! Izobr.i rats. no.1:19 '63. (MIRA 16:3)

1. Nachal'nik Penzenskogo byuro po delam ratsionalizatsii i izobretatel'stva (for Glinchevskiy).

(Technological innovations)
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USSR / Cultivated Plants. Grains. Legumes. Tropical M-1 Cereals.

Abs Jour : Ref Zhur - Biologiya, No 2, 1959, No. 6209

Author : Mikharev, V. A.

Inst : Chkalov Agricultural Institute

Title : The Sowing of Durum Wheat by Separate Seed

Fractions

Orig Pub : Zemledeliye, 1957, No 3, 80-82

Abstract : The results of the study at the Chkalov agricul-

tural institute (1954-1956) of the norms of sowing of durum wheat (Melanopus 69 variety) in relation to the size of seeds is given in this paper. Excessive density of sowings (6.5 millions for small seeds, 5.5 mil. for medium and large sizes on 1 ha) causes the plants to become depressed. This phenomenon

Card 1/2

6

MIKHAREV, V. A. Cand Agr Sci -- "Certain problems of agricultural engineering and prospects of development of the cultivation of durum wheat in Orenburgskaya Oblast." Omsk, 1961 (Authors Abstracts of Dissertations presented at Omsk Agr Inst im S. M. Kirov). (KL, 4-61, 205)

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MIKHARSKIY, K.I., inzh.

Threading trapezoidal double screw threads by a vortex method in one operation. Stroi.i dor.mash. 6 no.8:34-36 Ag '61. (MIRA 14:8)

(Screw cutting)

MIKHASENCK, YE. V.,

Agriculture & Plant & Animal Industry.

Increased milk production. Saratovskoe obl. gos. izd-vo, 1950.

Monthly List of Russian Accessions, Library of Congress, April 1952 UNCLASSIFIED.

VOLKOV, Ye.T.; MIKHASENCK, Ya.Yu.

Z.M.Penkina, compiler of a complete bibliography of Russian books on the sea. Okeanologita 2 no.51954-958 '62. (MIRA 15:11) (Penkina, Zinaida Mikhailovna, 1861-1887)

MIKHASEV, M.I.

Dynamics of gas metabolism in circulatory insufficiency. Kardiologiia 1 no.6:74-81 N-D '61. (MIRA 15:1)

1. Iz kafedry propedevtiki vnutrennikh bolezney (nachal'nik - deystvitel'nyy chlen AMN SSSR prof. N.N.Savitskiy) Voyenno-meditsinskoy ordena Lenina akademii imeni S.M.Kirova.

(RESPIRATION) (BLOOD\_\_CIRCULATION, DISORDERS OF)

KUZNETSOV, V.I., dotsent; KUSHAKOVSKII, M.S., kand.med.nauk; MIKHASEV, M.I. (Leningrad)

就开门的星期就**从外的**的特色特色数据的复数形式的影响。

Antihypertensive activity of cystamine. Klin.med. 39 no.1271-76 Ja 161. (MIRA 14:1)

1. Iz kafedry propedevtiki vnutrennikh bolezney (nach. - zasluzhemnyy deyatel' nauki deystvitel'nyy chlen AMN SSSR prof. N.N. Savitskiy) Voyenno-meditsinskoy ordena Lenina akademii imeni S.M. Kirova.

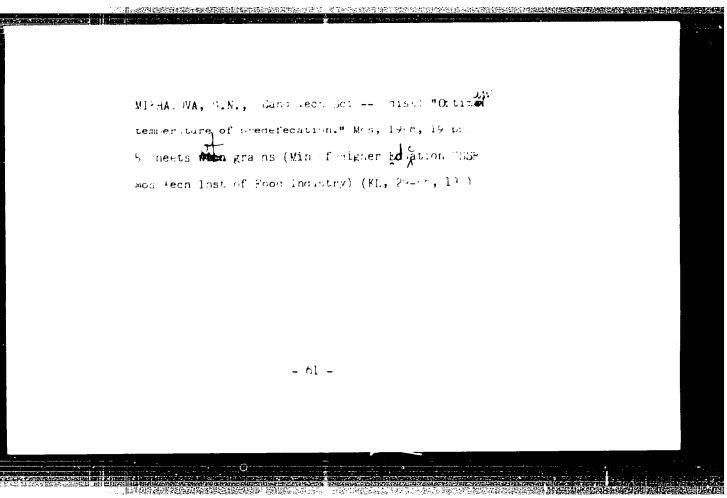
(BLOOD PRESSURE)
(THYLAMINE)

MIKHASIK, I., podpolkovnik; NERETIN, Ye., podpolkovnik;

SUKHOTIN, Ye., podpolkovnik

Recording of military and political training. Voen. vest.
41 no.5:69-73 My '61. (MIRA 14:8)

(Russia—Army—Personnel records)



MIXHATOVA, C.H.

Optimum for predefecation temperature. Sakh. prom. 12 no.8:29-34
(MIRA 11:9)

1.Moskovskiy tekhnologicheskiy institut pishchevoy promshlennosti.
(Sugar manufacture)

MIKHATOVA, G.N.

Product calculation in the combined processing of sugar beets and raw cane sugar. Sakh.prom. 36 no.4:45-48 Ap 162. (MIRA 15:5)

1. Vsesoyuznyy zaochnyy institut pishchevoy promyshlennosti. (Sugar manufacture)

BUGAYENKO, I.F.; MIKHATOVA G.N.

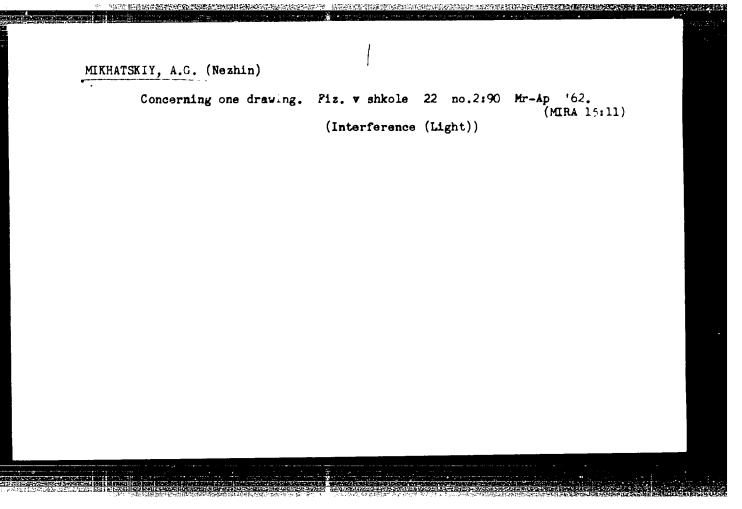
[High-molecular flocculants in the sugar industry] Vysoko-molekuliarnye flokulianty v sakharnoi promyshlennosti.

Moskva, TSen'r. in-t nauchno-tekhn. informatsii pishchevoi promyshl., 1964. 21 p. (MIRA 17:12)

KAGANOV, Isaak Natanovich; MIKHATOVA, Galina Nikolayevna;
VOYKOVA, A.A., red.

[Chemical and technical calculations and accounting in
sugar manufacture] Khimiko-tekhnicheskie raschety i
uchet v sakharnom proizvodstve. Moskva Pishchevaia
promyshlennost', 1964. 330 p. (MIHA 18 4)

EWT(1)/EWT(m)/EWP(t) JD/ AT IJP(c) SOURCE CODE: UR/0185/66/011/003/0253/029 AP6009065 ACC NR -Kikhatskaya, N. A.; Pasichnyk, L. L. AUTHOR: Kozak, O. V.; Minist Pasechnik, L. L. ORG: Institute of Physics, AN URSR, Kiev (Instytut fizyky AN URSR) 21, 44, 56 TITLE: The measurement of electron temperature in helium plasma by the intensity ratio of the spectral lines SOURCE: Ukrayins'kiy fizychnyy zhurnal, v. 11, no. 3, 1966, 253-257 TOPIC TAGS: electron temperature, helium plasma, spectral line ABSTRACT: This paper presents some calculations linking the intensity ratio of the spectral lines with the electron temperature in helium plasma. The calculations are carried out for different singlet ( $\lambda = 5047$ Å,  $\lambda = 5016$ Å,  $\lambda = 4922$ Å) and triplet  $(\lambda = 4713^{\circ}_{A}, \lambda = 4472^{\circ}_{A})$  combinations. The excitation function for He-lines and crosssection data in maxima applied here represent an average of results obtained by other authors. The electron temperature values obtained by the intensity ratio of the helium spectral lines in the plasma of a positive discharge column with a hot cathode are compared with the results obtained by means of probe techniques. The experimental data show that intensity ratio of some spectral lines depends on the helium pressure when the latter is over 10-3 mm, Hg. The use of spectral lines for determining the electron temperature of plasma. Orig. art. has:
1 formula. [Based on authors' abstract.]
Cord 1/8 8UB CODE: 20/ SUBM DATE: 04Jun65/ ORIG REF: 062 Orig. art. has: 4 figures, 2 tables, and



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MIKHUTSKIY, F. .: "Me. . er of tre Stre a of Single on would in-
ally Remark I Immise.. ""in Typer Education DD N. Kiev Order of
Lenin Polytechnic Inst. Chair of the Decretical Principles of
Radio Engineering. Kiev, 1975.

(Dissertation for the Degree of Candidate in Technical would e.)

S: Knizhnaya Leto is!, No 9, 1986
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MIKHATSKIY, Yu.V.

Calculation of the error of pulse diode voltmeters. Izv.vys. ucheb.zav.; radiotekh. 2 no.3:316-320 ky-Je '59. (MIRA 13:2)

1. Rekomendovana kafedroy teoreticheskikh osnov radiotekhniki Kiyevskogo ordena Lenina politekhnicheskogo instituta. (Electron-tube voltmeter)

9(2,3) AUTHOR:

Mikhatskiy, Yu. V.

307/115-59-1-24/33

TITLE:

Designing Circuits of Dicde Pulse Voltmeters

PERIODICAL: Izmeritel'naya tekhnika, 1959, Nr 8, pp 44 - 47

(USSR)

ABSTRACT:

In this paper the author analyses the influences of the initial diode current and the grid current of the reflex circuit tube on the function of a diode peak voltmeter. The combined action of these two currents determines to a considerable degree the zero-stability of a voltmeter, its readings and the input resistance of the reflex circuit. In this connection, the author considers problems encountered in designing the most efficient pulse voltmeter circuits. Based on these investigations, a circuit with a closed input is recommended for measuring positive pulses. For measuring negative pulses an open input circuit is recommended. For peak-to-peak measurements of pulses, the circuit must be designed according to Figure 7. There are 12 circuit diagrams, 1 graph and 2 Soviet references.

Card 1/1