ROGINSKAYA, BS

USSR/Analytical Chemistry - Analysis of Inorganic Substances

G-2

Abs Jour : Ref Zhur - Khimiya, No 4, 1957, 12051

Author : Gol'dinov A.L., Roginskaya B.S.

Title : Method for the Determination of Small Amounts of Calcium

in Brine

Orig Pub : Zavod. laboratoriya, 1956, 22, No 7, 801-802

Abstract : The brine (100 ml) is passed through a column filled with cath-

ionite in the Na-form, at a rate of 2.5 ml/minute. The column is washed with water, 50-60 ml, at a rate of 5 ml/minute, filtrate and washings are discarded. To eluate the Ca, 30 ml HCl (1:9) are passed through the column at a rate of 1.5-2 ml/minute, followed by 70 ml water at a rate of 5 ml/minute. Acid solution and washings are neutralized, to litmus, with caustic soda, 2 ml 2 N solution of NaOH are added, and titration is carried out with 0.01 N solution of Complexon III, in the presence of murexide, until color of the solution changes from

Card 1/2

GOL'DINOV, A.L.; HOGINSKAYA, B.S.

Method for determining small amounts of calcium in brine. Zav.lab.
22 no.7:801-802 '56. (MLRA 9:12)

(Brines) (Galcium-Analysis)

BAMDAS, A.M., doktor tekhn.n.k; SHAPIRO, S.V., kand.tekhn.nauk; BLINOV, I.V., inzh.; ROGINSKAYA, I.E., inzh.

在中国的企业的企业的企业的企业的企业,但是是国际的企业的企业的企业的企业的企业的企业的企业的企业的企业的企业的企业的企业的企业。

Large static ferromagnetic frequency trippler for an electric welding systems. Trudy GPI 19 no.3:43-49 *63. (MIRA 17:10)

ROGINSKAYA, E.I.

到的大型,并不是不是不是不是不是不是一个,但是是一个人,也可以不是一个人,也可以不是一个人,也可以不是一个人,也可以不是一个人,也可以不是一个人,也可以不是一个人。 第一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就

Treatment of tuberculosis with artificial penumothorax and antibacterial preparations. Probl.tub. 36 no.6:39-41 \$\frac{1}{2}\$ (MIRA 11:10)

1. Iz dispansernogo sektora (zav. prof. M.I. Oyfenbakh) Instituta tuberkuleza AMN SSSR (dir. Z.A. Lebedeva).

(PREUMOTHORAX, ARTIFICIAL,
adjuvant bacteriostatics (Rus))

ROGINSKAYA, I.S.

Dimorphism of sperms in some species of mollusks of the genus Coryphella Gray (Gastropoda, Nudibranchia). Dokl. AN SSSR 152 no.5: 1256-1259 0 '63. (MIRA 16:12)

1. Institut morfologii zhivotnykh im. A.N.Severtsova AN SSSR. Predstavleno akademikom K.I.Skryabinym.

ROGINSKAYA, I.S.

Cytology of spermatogenesis in tetraploid male silkworms. Report No.2: Cytometric study. TSitologiia. 6 no.3:298-304 My-Je '64. (MIRA 18:9)

1. Laboratoriya eksperimental'noy embriologii Instituta morfologii zhivotnykh AN SSSR, Moskva.

ROGINSKAYA, I.S.

Spermatogenesis in tetraploid males of the mulberry silkworm
Report No.1: Cytological research. TSitologiia 6 no.1:72-76 Ja-F 'f'.
(MIRA 17:9)

l. Laboratoriya eksperimental'noy embriologii Instituta merfologii zhivotnykh AN SSSR, Moskva.

ROGINSKAYA, I.S.

A large mudibranchiate Coryphella fusca O'Donoghue, a predator of the small nudibranchiates Coryphella rufibranchialis Johnston and Cuthona sp. Zool. zhur. 43 no.ll: 1717-1719 '64. (MIRA 18:11)

1. Institut morfologii zhivotnykh AN SSSR, Moskva.

ROGINSKAYA, I.S.

Nudibranchiata of the White Sea in the region of the White Sea Biological Station of the Moscow State University. Trudy Belomor.biol.sta.MGU 1:88-108 '62. (MIRA 16:1)

1. Kafedra zoologii bespozvonochnykh Moskovskogo gosudarstvennogo universiteta.

(White Sea--Nudibranchiata)

l. Kafedra zoologii bespozvonochnykh Moskovskogo gosudarstven- nogo universiteta. (White Sea-Nudibranchiata) (Mollusks-Eggs)	• ,	Spawn of Nudibranchiata of the White Sea. Trudy Belomor.biol. sta.MGU 1:201-214 '62. (MIRA 16:1)
(White SeaNudibranchiata) (MollusksEggs)		nogo universiteta.
		(White Sea-Nudibranchiata) (Mollusks-Eggs)

ASTAUROV, B.L.; GOLYSHEVA, M.D.; ROGINSKAYA, I.S.

Chromosome complex of the Ussuri geographical race of the wild silkworm Bombyx mandarina m. in connection with problems on the origin of the domesticated silk worm Bombyx mori. TSitologia 1 no.3:327-332 My-Je '59. (MIRA 12:10)

1. Leboratoriya eksperimental'noy embriologii Instituta morfologii zhivotnykh AN SSSR, Moskva. (KHASAN DISTRICT (MARITIME TERRITORY)--SILKWORMS)

ROGINSKAYA, I.S.

Biology of the reproduction and development of Cuthona pustulata (Gastropoda, Nudibranchia). Dokl. AN SSSR 146 no.2:488-491 S *62. (MIRA 15:9)

1. Institut morfologii zhivotnykh im. A.N. Severtsova AN SSSR. Predstavleno akademikom L.S. Shtern. (Gastropoda)

ROGINSKIY, I.Yu.

Rheostat transducer. Geofiz. prib. no.19;102-108 '64.
(MIRA 18:9)

BLINOV, I.V.; ROGINEKAYA, I.E.

Static ferromagnetic pulse generato s. Trudy GPI 19 no.3:85-87 163.

(MIRA 17:10)

	SOURCE CODE: UR/6196/66/CCO/CO2/IO36/IO36 2
•	Account invocations
	MYTHE 1- D. A. S., A. M.; Chapiro, S. V.; Blinov, I. V.; Yomel'yanov, V. P.; Zakharov, N. V. Mannia, Tu. I.; Roginskaya, L. E.
	TITID: Simple-stage static ferromagnetic frequency multipliers with ratios 8 and 9
*	SCURCE: Rel. wh. Elektrotekhn i energ, Nos. 20005
	REF SCURCE: Tr. Gorthovsk. politekh. in-ta, v. 20, no. 6, 1965, 5-11
:	reserve This: frequency multiplication, frequency octupier, ferromagnetic material
	ABSTRACT: two single-stage statle ferromagnetic frequency matter that frequency octupier bias produced by intermediate-frequency currents are described. The frequency octupier bias produced by intermediate-frequency currents supplied by a 3-phase system are connected that discountantly cores. The primary windings supplied by a 3-phase system are connected that discountantly cores from a symmetrical 6-phase
:	bystom. In addition, the occupied and sectionary (that frequencies 2 and 4 times the magnetization and self-magnetization windings fed at frequencies 2 and 4 times the magnetization of supply frequency. The latter windings are connected to capacitors. The 9-ratio supply frequency. The latter windings are connected to capacitors and self-magnetization
	windings, this multiplier has a self-inhormantal models of 2-kva and 900-va supply frequency. Characteristics of experimental models of 2-kva and 900-va supply frequency. Characteristics of experimental models of 2-kva and 900-va supply frequency. Characteristics of experimental models of 2-kva and 900-va supply frequency.
	weight, 60 kg; the 9-ratio multiplier, 1009 to characteristic: the mo-load to full-load voltage wave; they have a fairly hard external characteristic: the mo-load to full-load voltage wave; they have a fairly hard external characteristic: the mo-load to full-load voltage wave; they have a fairly hard external characteristic: the mo-load to full-load voltage wave, they have a fairly series of the mo-load to full-load voltage wave, they have a fairly hard external characteristic: the mo-load to full-load voltage wave, they have a fairly hard external characteristic: the mo-load to full-load voltage wave, they have a fairly hard external characteristic: the mo-load to full-load voltage wave, they have a fairly hard external characteristic: the mo-load to full-load voltage wave, they have a fairly hard external characteristic the mo-load to full-load voltage wave, they have a fairly hard external characteristic.
	Card 1/: 9 510200. S.Shapiro SUB CODE: 09 012:021.314.205.001.01
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,	ACC NR. AR6028422 SOURCE CODE: UR/0196/66/000/005/1034/1034	
	AUTHOR: Bamdas, A. M.; Shapiro, S. V.; Yemol yanov, V. P.; Yevstigneyeva, T. A.; Blinov, I. V.; Davydova, L. N.; Zakharov, N. V.; Makhin, Yu. I.; Roginskaya, L. E.; Frolov, V. T.	
	TITLE: Development work on static frequency changers in the Gor'kiy Polytechnic Institue im. A. A. Zhdanov	
	SOURCE: Ref. zh. Elektrotekhnika i energetika, Abs. 51205	
	REF SOURCE: Sb. Vses. nauchno-tekhn. konforentsiya po primeneniyu vysokoskorostn. mashin s elektroprivodom povyshen. chastoty toka v nar. kh-ve. Ordzhonikidze, 1945, 47-51	•
	TOPIC TAGS: frequency changer, frequency converter, frequency conversion	
	ABSTRACT: The Laboratory has developed static forromagnetic quadruplers, octuplers, and nonuplers with self-magnetization by flux intermediate harmonics, with single-and 5-phase output; also, a 1.5-ratio frequency changer has been developed. Their principal characteristics, power and weight data are reported. Specifically, the principal characteristics, power and weight data are reported. Specifically, the weight of active material varies from 36 to 29 kg/kva for capacities 16 kva; efficiency, 7060%. With an input voltage variation of 90-110%, the quadrupler voltage varies only by ± 58%. The output voltage of a negative-feedback-type octupler varies only by ± 58% with a load current varying from zero to 130% its	
	UDC: 621.314.26	_1
•	Card 1/2	
		14

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	ACC NR: AR6028422	•
	nominal value. The octupler output voltage can be regulated within ± 15% by controlling its magnetization current. The efficiency of the 1.5-ratio frequency changer is 6070%. It is capable of stable operation despite input voltage and load variations within ±50% of their nominal values. Four figures. Bibliography of 4 titles. S. Shapiro [Translation of abstract]	
	SUB CODE: 09	1.0
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L 55348-65 EWT(1)/EWA(h) Po ACCESSION NR: AT5014628	681.142.324
TITLE: Static, ferromagnetic pu	S. V.; Blinov, I. V.; Roginskaya, L. E. Bilse shapers
SOURCE: <u>Vsesoyuznoye</u> soveshchan tel'noy tekhniki. 9th, Yerevan, analog elements); doklady sovesh	iye po magnitnym elementam avtomatiki i vychiali- 1963. Magnitnyye analogovyye elementy (Magnetic nchaniya. Moscow, Izd-vo Nauka, 1965, 138-143
TOPIC TAGS: static pulse shaper magnetic pulse shaper	, single phase input, three phase input, ferro-
ABSTRACT: Three types of static, the Enclosure) have been develop	ferromagnetic pulse shapers (see Fig. 1 and 2 of ped at the research laboratory of the department of the Cor'kovskiy politekhnicheskiy in-

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445 construction in constant and 5 figures. Orig. art. has: 8 formulas and 5 figures.

Card 1/4 7

L 55348-65 ACCESSION NR: AT5014628

ASSOCIATION: Gor'kovskiy politekhnicheskiy institut (Gor'kiy Polytechnic Institute)

SUBMITTED: 28Dec64 ENGL: 0.3 SUB CODE: DP, EE

NO REF SOV: 001 OTHER: 000

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

Card 2/5

DANIEL'-BEK, S.; KURFIRST, S.; ROGINSKAYA, N.

The TGK-10 thermo-electric generator. Radio no.9:13-14 S '56.

(Electric generators) (MLRA 9:11)

AID P - 5016

: USSR/Electronics Subject

Pub. 89 - 1/14 Card 1/1

Daniel'-Bek, V., S. Kurfirst, and N. Roginskaya Authors

Thermoelectrogenerator TGK-10 Title

STATE OF THE STAT

Radio, #9, 13-14, S 1956 Periodical

The authors describe the starting of small-serial Abstract

production of thermoelectrogenerators of the TGK-10 type, with 10-12 watt capacity, and destined for feeding radiocenters of the KRU-2 type in small collective farms.

The authors describe the thermoelectrogenerators in

detail. Three drawings.

Institution: None

No date Submitted

"APPROVED FOR RELEASE: Tuesday, August 01, 2000

CIA-RDP86-00513R001445

Electricity- Thermo-electric generators USSR/

Card

Pub. 89 - 12/27

Authors

Daniel-Bek, V.; Voronir, A.; and Roginskaya, N.

Title

* The TGK-3 thermo-electric generator

Periodical : Radio 2, 24-26, Feb 1954

Abstract

& A brief, simple theory on thermocouples is presented. The construction and arrangement of thermocouple batteries into the TCK-3 type generator can be seen from the pictures and diagrams given in the article. Batteries of this type are especially useful in rural districts where the so-called electrofication has not yet taken place, since heat required for them can be simply obtained from a kerosene lamp. The batteries have a moderate efficiency coefficient and a sufficiently long life. Diagrams; drawings.

Institution:

Submitted:

DANIYEL'-BEK, V.; VORONIN, A.; ROGINSKAYA, N.

TGK-3 thermoelectric generator. Radio no.2:24-26 F '54.

(MLRA 7:2)

(Electric power production) (Thermocouples)

ACCESSION NR: AR4042155

S/0196/64/000/005/A013/A013

SOURCE: Ref. zh. Elektrotekhnika i energetika, Abs. 5A96

AUTHOR: Daniyel'-Bek, V. S.; Roginskaya, N. S.

TITLE: Some new types of thermopiles and thermoelectric generators of increased power

CITED SOURCE: Izv. Leningr. elektrotekhn. in-ta, vy°p. 51, 1963, 93

TOPIC TAGS: thermopile, thermoelectric generator

TRANSLATION: A brief description is given and the characteristics of improved technology of manufacture of thermopiles and new types of thermoelectric generators of increased power are presented: TGK-18 (18w) and TGK-36 (36 w) - for rural radio installation, and also TGG-16 (16 w) - for feeding the cathode shield of main gas lines. The technical and economic prospects of wider application of thermoelectric current sources are considered.

SUB CODE: EE

ENCL: 00

Card 1/1

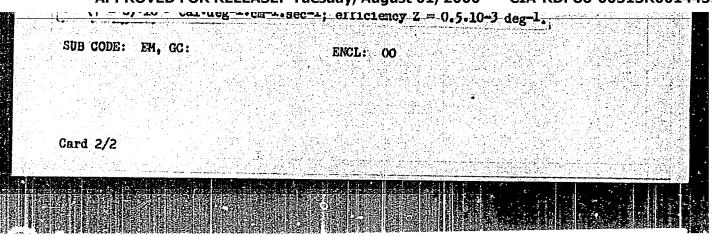
IJP(c)/AFETR/ EWT(1)/EWG(k)/EWT(m)/T/EWP(q)/EWP(b) Pz-6 L 2126-65 ASD(a)-5/AS(mp)-2/ASD(m)-3/RAEM(t) JD/AT S/0196/64/000/006/A014/A014, ACCESSION NR: AR4044247 SOURCE: Ref. zh. Elektrotekhnika i energetika, Abs. 6A105 AUTHOR: Daniyel'-Bek, V. S.; Roginskaya, N. S. TITLE: Thermoelements on a base of intermetallic compounds for thermoelectric current sources CITED SOURCE: Izv. Leningr. elektrotekhn. in-ta, vy*p. 51, 1963, 85-92 TOPIC TAGS: thermoelement, intermetallic compound, thermoelectric current, electric conductivity, thermoelectrode, cermet electrode, specific heat conductivity, electrode property TRANSLATION: There are presented the results of the development of thermoelements on a base of intermetallic compounds. As the base was used the pair ZnSb-constantan. There is investigated the influence of impurities on the properties of ZnSb. There are given the curves of the temperature dependence of the specific electrical conductivity o of thermoelectrodes made from ZnSb without additions and with Card 1/2

2

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ACCESSION NR: AR4044247

additions of Cu and Pb. There is selected the alloy ZnSb with additions of several hundredths of a percent of Cu and several percents of Pb. Normal temperature conditions of operation of the thermoelements: temperature of hot joints <400-420° C, of cold joints ~100° C. There is shown the influence of temperature of pressing on the electrode properties. Under ordinary temperature conditions the efficiency of the thermoelements is close to 3.5-4%, the period of service attains 4000-4500 r. There are given the technological investigations of CoSb a more effective negative thermoelectrode than constantan. By industrial technology are prepared pressed cermet electrodes with following characteristics:



"APPROVED FOR RELEASE: Tuesday, August 01, 2000

CIA-RDP86-00513R001445

DANIEL'-BEK, Vladimir Sergeyevich; ROGINSKAYA, Noemi Solomonovna; LYUE-SKIY, G.S., otv. red.; RYAZANTSEVA, M.M., red., red.; SLUTSKIN, A.A., tekhn. red.

[Thermoelectric generators] Termoelektrogeneratory. Moskva, Gos. izd-vo lit-ry po voprosam sviazi i radio, 1961. 51 p.

(MIRA 14:11)

(Thermoelectric generators)

LEVINSON, M. M.; ROGINSKAYA, P.A.

Ultraviolet Rays-Therapeutic Use

"Cold quarz" irradiation of tonsils in scarlet fever. Pediatriya no. 3, 1952.

Monthly List of dussian Accessions, Library of Congress, October 1952. UNCLASSIFIED.

KIBIREV, B.I.; RCGINSKAYA, R., otv. za vyp.

[Maintenance of a motor vehicle; educational manual for the study of the topic No.10 "Maintenance of trailers."] Tekhnicheskoe obsluzhivanie avtomobilia; uchebno-metodicheskoe posobie po izucheniiu temy No.10 "Tekhnicheskoe obsluzhivanie pritsepov." Gor'kii, Zaochnyi avtomobil'no-dorozhnyi tekhnikum, 1963. 17 p. (MIRA 16:9) (Truck trailers--Maintenance and repair)

TEGOROV, N.G.; ROGIUSKAYA, R.D.

Detecting SiO2 in the presence of a large amount of fluorine.

Trudy NIIAsbesttsementa no.12:97-99 '61. (MIRA 16:8)

(Silica) (Fluorine)

YECOROV, N.G.; ROCINSKAYA, R.D.

Detection of fluorine by the cation method. Trudy
NIIAsbesttsementa no.12:94-96 '61. (MIRA 16:8)

(Fluorine)

ROGINSKAYA, R.M.

Characteristics of the outcomes of and defective states in infectious lesions of the central nervous system associated with mental disorders. Vop.psikh.i nevr. no.7:150-159 '61. (MIRA 15:8)

1. Iz psikhiatricheskoy bol'nitsy imeni Kashchenko (glavnyy vrach - I.T.Viktorov, nauchnyy rukovoditel' - prof. Ye.S.Averbukh).

(PSYCHOSES) (NERVOUS SYSTEM--DISEASES)

建设的12次,被数据数据通过分别来设施工程的转移。

ROGINSKAYA. Ts. A.

"On Chronic Tonsillitis in Brucellosis"

Sov. Zdravookhr. Kirgizii, No 3, pp 34-37, 1953

The differentiation between tonsillogenic and brucellar tonsillitis is often very difficult. Of the 281 patients operated on for chronic tonsillitis 113 showed positive serological reaction for brucellosis. Only 31 of the cases were doubtful; 13 of them had reported at the brucellosis station. The tonsillectomy was successful in all patients. Pain decreased or completely disappeared. Temperature returned to normal. After 1-8 months all patients except one had greatly improved although the serological reactions remained positive. Tonsillitis therefore has a good effect on the clinical course of brucellosis. There is great significance in the elimination of recurrent angina which always aggravates the disease. (RZhBiol. No 7, 1954)

SO: Sum. No. 606, 5 Aug. 55

ROGINSKAYA, TS.A., dotsent; MAYERCHIK, A.A., kand.med.nauk; OSMANBEKOVA, V.Yu., assistent; VOLYMKIN, Ya.G., assistent

In memory of Professor Abram L'vovich Brudnyi. Vop.otorin. 21
no.6:118-119 N-D *59.

(OBITUARIES)

ROGINSKAYA, TS.A.

Chronic purulent inflammation of the middle ear. Sov. zdrav. Kir. no.1:51-55 Ja-F '62. (MIRA 15:4)

1. Iz kafedry bolezney ukha, nosa i gorla (zav. - dotsent Yu.D. Vasilenko) Kirgizskogo gosudarstvennogo meditsinskogo instituta. (EAR-DISEASES)

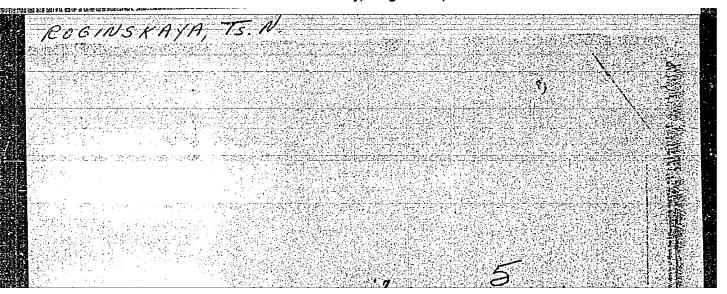
ROGINSKAYA, TS.A., dotsent

Anaphylactic shock on the administration of penicillin. Zhur.ush., nos.i gorl.bol. 22 no.2:69-71 Mr-Ap '62. (MIRA 15:11)

1.Iz kafedry bolezney ukha, gorla i nosa (zav. - dotsent Yu.D. Vasilenko) nirgizskogo meditsinskogo instituta.

(PENICILLIN-TOXICOLOGY) (ANAPHYLAXIS)

Molecular structure of unsaturated ketones--bimolecular products of cyclohexanone condensation. Zhur. ob. khim. 28 no. 8:2229-2233
Ag '58. (Gyclohexanone)
(Condensation products(Chemistry))
(MIRA 11:10)
(Molecular structure)



50V/60-10-1-16/44

AUTHORS:

r) a grae, g. Tee, W. Diberroom, fact., Loginskaya, Ts.II. and

مأه مألاً وعارة وال

O Furifying Adipo-Kitryl (Ob ochicthe adiponitrila)

PH. LODICAL:

The shall prilladnoy phimit, 1969, No 1, pp 227-230 (USSR)

ARETHACT:

Adiponitryl is an intermediate product in the industrial synthereis of the adipic hexamethylenediamine which is used in the production of polyabile resins. The usual methods employed in this synthesis do not ensure the wanted purity of the adiponitryl. In the present notice the authors suggest, on the basis of chemical analyses and studying the ultraviolet spectrum of the adiponitryl, a new method of its purifying. They show that by treating adiponitryl with sulfuric acid and its subsequent Plushing with ammonium disulfite solution it is possible to obfain the pure and stable (in storing) product which practically does not absorb ultraviolet rays in the range from 220 to 400 mp savelength.

Cura 1/4

APPROVED FOR RELEASE: Tuesday

Configuration adipositivel.

Where are digraphs and 15 references, 4 of which are Soviet, american, 3 German, 2 French and 1 English.

SUBMITTED: May 16, 1987

ROGINSKAYA, TS.N.; FINKEL'SHTEYN, A.I.; MUSHKIN, Yu.I.

Infrared spectra of the products of interaction of isocyanates with hydrogen chloride. Zhur.ob.khim. 33 no.12:3928-3932 D '63. (MIRA 17:3)

1. Gosudarstvennyy nauchno-issledovatel'skiy i proyektnyy institut azotnoy promyshlennosti i produktov organicheskogo sinteza.

SOV/75-14-3-20/29 5(3)

Roginskaya, Ts. N., Finkel'shteyn, A. I. AUTHORS:

A Simplified Spectrophotometric Method for Determining TITLE:

Organic Compounds by Absorption in Near Infrared Region (Uproshchennyy spektrofotometricheskiy metod opredeleniya organicheskikh soyedineniy po pogloshcheniyu v blizhney

infrakrasnoy oblasti)

non adamentation do alguna de la compansión de la compansión de la compansión de la compansión de la lace

Zhurnal analiticheskoy khimii, 1959, Vol 14, Nr 3, pp 360-361 PERIODICAL:

(USSR)

The method described is useful for determining mixtures of ABSTRACT:

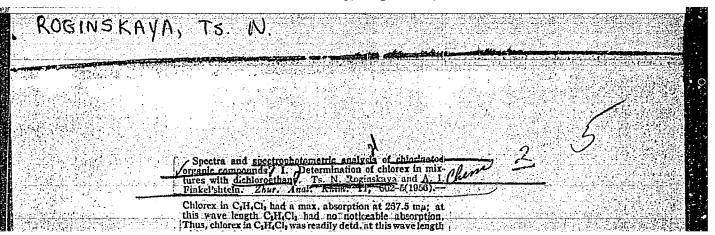
Chlorex (bis-\$-chloroethyl ether) and dichloro-ethane, cyclohexanol, and cyclohexanone as well as of water in isopropyl alcohol. The error limits are (for Chlorex) at a maximum of 7%, which is admissible for industrial analyses. Figure 1 shows a scheme of the spectrophotometer. Silver sulfide photoelements FESS-U10 were used as receivers. As light filter the complex salt of copper sulfate with monoethanol amine was used. The determination was carried out on the basis of calibration curves (Fig 3). There are 3 fig-

ures, 2 tables, and 5 references, 3 of which are Soviet.

Card 1/2

KULIKOVA, A.Ye.; ZIL'BERNAN, Ye.N.; ROGINSKAYA, TS.N.; SMIRNOVA, M.M.

Purification of adiponitrile. Zhur.prikl.khim. 32 no.1:227230 Ja '59. (Adiponitrile)



AUTHORS:

Roginskaya, Ts. N., Svetozarskiy, S. V., Finkel shteyn, A. I., Zil berman, Ye. H.

SOV/79-28-8-47/66

TITLE:

Concerning the Question of the Molecular Structure of the Unsaturated Ketones Which Are the Bimolecular Condensation Product of Cyclohexanone (K voprosu o molekulyarnom stroyenii nenasyshchennykh ketonov-bimolekulyarnykh produktov konden-

satsii tsiklogeksanona)

PERIODICAL: Zhurnal obshchey khimii, 1958, Vol. 28, Nr 8,

pp. 2229 - 2233 (USSR)

ABSTRACT:

On the basis of investigations on the chemical properties of the ketone $C_{12}H_{18}O(I)$ the structure (A) (Refs 6,9-11) or structure (B)(Refs 9,10,12-12) may be assigned to it, or it may be considered as a mixture of the two isomers (Rers 15,16). Those supporting structure (B) (Refs 10,14)

APPROVED FOR RELEASE FOR A thouse of Dikman-Kon(Dikman, Kon),

according to which the semicyclic double bond in the

cyclohexane ring is less stable than the endocyclic double bond. The question of the structure of this ketone was more

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Concerning the Question of the Molecular Structure of SOV/79-28-8-47/66 the Unsaturated Ketones Which Are the Bimolecular Condensation Product of Cyclohexanone

disputed by the discovery of a new unsaturated ketone C₁₂H₁₈O(II), by Reese (Rize)(Ref 12) in 1942. According to his reactions there could be not doubt that α, β double bonds were present. In contrast to (I) this compound is a solid, relatively less stable, and on warming changes to the liquid ketone (I). The spectra of these two ketones, (I) and (II), had not previously been investigated. The authors investigated the optical properties of (I) and (II) in order to establish their molecular structures. The combined spectra obtained are given in the table, while the infra-red absorption spectra appear in figures 1 and 2 and the ultra-violet spectra appear in figures 3 and 4. It was shown that both compounds are different forms of the α, β -unsaturated ketone 2-cyclohexylide cyclohexane. Figures 1-4 illustrate the spectral analytical results; figure 5 shows the structure of the two stereoisomers of 2-cyclohexylide cyclohexane. There are 5 figures, 1 table, and 20 references, 2 of which are Soviet.

Card 2/3

Concerning the Question of the Molecular Structure of SOV/79-28-8-47/66 the Unsaturated Ketones Which Are the Bimolecular Condensation Product of Cyclohexanone

SUBMITTED: May 22, 1957

Card 3/3

5 (3) AUTHORS:

SOV/32-25-8-12/44 Finkel'shteyn, A. I., Roginskaya, Ts. N.,

Balabanova, P. N., Malachevskaya, F. L.,

Fisher, A. M., Machin, G. P.

TITLE:

Spectrophotometric Analysis Methods of Organic Compounds in

Chemical Industry

PERIODICAL:

Zavodskaya laboratoriya, 1959, Vol 25, Nr 8, pp 932 - 934

(USSR)

ABSTRACT:

The article contains descriptions of spectrophotometric analysis methods (SA) for the analysis of hexachlorane with simultaneous determination of the three a-, f-, and 5-isomers as well as for the determination of chlorobenzene in sewage water, the analysis of ammeline and ammelide mixtures, the determination of cyclohexanol and cyclohexanone in cyclohexane, etc. As the spectra of the investigated substances do not differ very much from that of the basic substance a modified measuring scheme (Figure) of the photocolorimeter was applied to make measuring at low optical densities easier. A copper-monoethanol amine-complex compound (Ref 1) serves as light filter; its maximum perviousness is at 1.25 μ . The used photoelement was FESS-U10, the spectrometers IKS-12 and SF-4. For the determination of chlorobenzene

Card 1/2

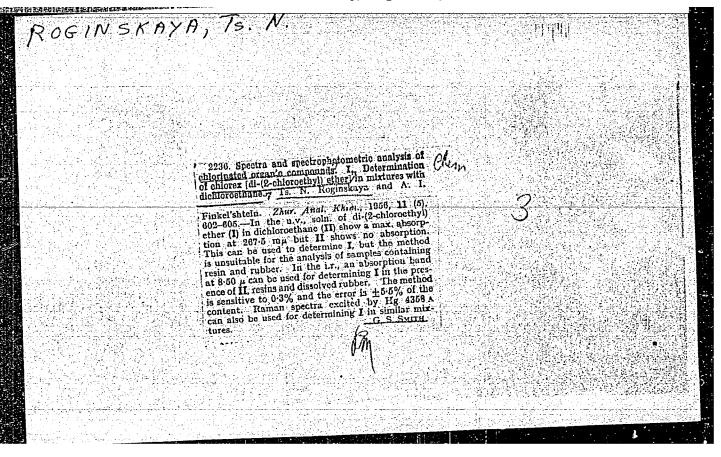
Spectrophotometric Analysis Methods of Organic Compounds SOV/32-25-8-12/44 in Chemical Industry

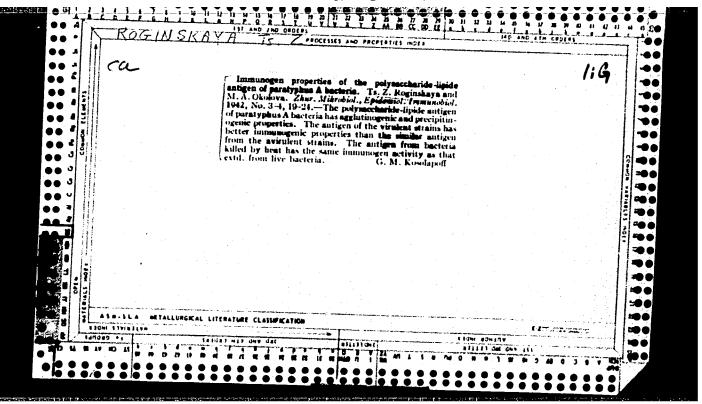
in the waste water of the perchloro vinyl resin production the "method of heterochromatic extrapolation" (Ref 3) was applied. As examples of determination of two components they describe the determination of diethyl chloride and ethyl chloride in carbon tetrachloride (Table 1), the determination of cyclohexanol and cyclohexanone in cyclohexane and 2,4- and 2,6-toluylene diamine (Table 2). For the determination of ammeline and ammelide (Ref 5) according to a wave length (1250 mm) the acidity of the medium is changed instead of the wave-length. The determination of 3 components is shown in the determination of hexachlorane isomers (Table 3) and the determination of 4, 5, and 6 components at the analysis of 1,1- and 1,2-diethyl chlorides, 1,1,2-trichloroethane and 1,1-, 1,2-, and 1, 1,2, 2-tetrachloroethane in carbon tetrachloride, and they also investigated a mixture of p-, m-, and o-xylol and ethyl benzene (Table 4). There are 1 figure, 4 tables, and 5 Soviet references.

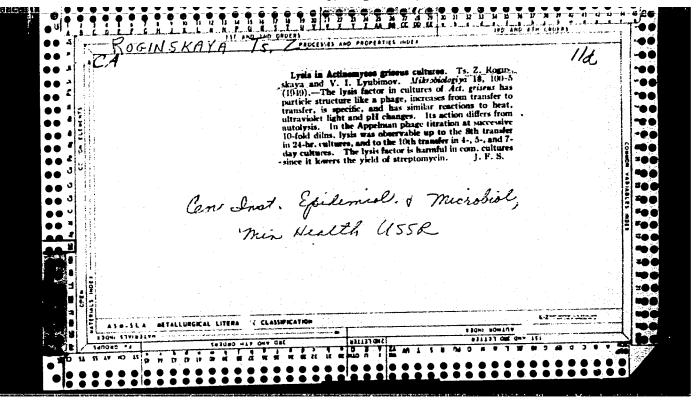
Card 2/2

ROGINSKAYA, TS.N.; PINKEL'SHTBYN, A.I.

Spectra and spectrophotometric analysis of chlorinated organic compounds. Part 1. Determination of chlorex in mixtures with dichloresthane. Zhur.anal.khim. 11 no.5:602-605 S-0 '56. (MERA 10:1) (Ether-Spectra) (Ethane-Spectra)







ROGINSKAYA. Ts.Z.; PLANEL'YES, Kh.Kh., professor, maveduyushchiy; TIMAKOV, V.D.,

Test microbe for determining the activity of streptomycin by the diffusion method. Zhur.mikrobiol.epid.i immun. no.8:12-16 Ag '53. (MLPA 6:11)

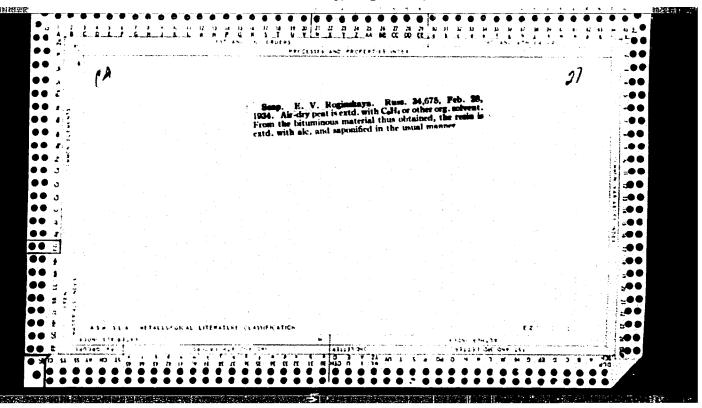
1. Otdel eksperimental'noy khimioterapii Instituta epidemiologii i mikrobiologii im. pochetnogo akademika M.F.Gamalei Akademii meditsinskikh nauk SSSR (for Planel'yes). 2. Institut epidemiologii i mikrobiologii im. pochetnogo akademika M.F.Gamaley Akademii meditsinskikh nauk SSSR (for Timakov).

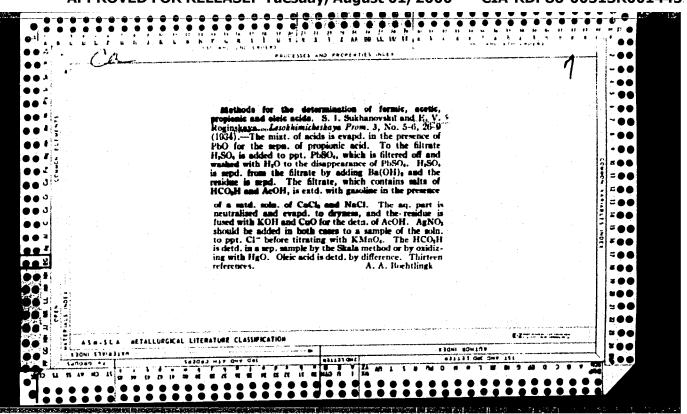
(Streptomycin)

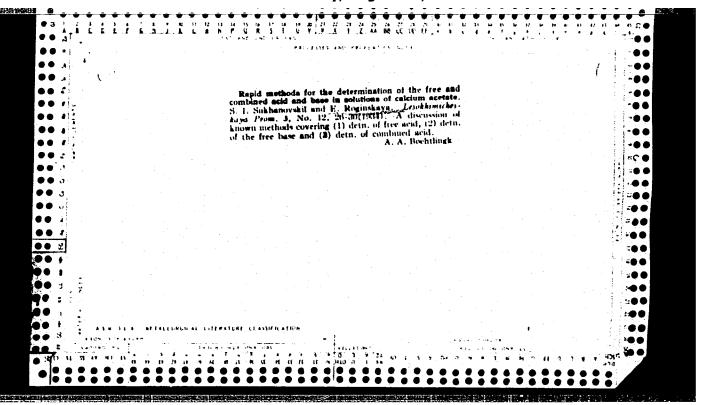
NEKRASOV, K.D., doktor tekhn. nauk, prof. red.; AL'TSHULER, B.A., kand. tekhn. nauk, red.; MEL'NIKOV, F.I., kand. tekhn. nauk, red.; MILONOV, A.F., kand. tekhn. nauk, red.; MILONOV, V.M., kand. tekhn. nauk, red.; SASMANOV, G.D., kand. tekhn. nauk, red.; SASSA, V.S., kand. tekhn. nauk, red.; TARASOVA, A.P., kand. tekhn. nauk, red.; TESLENKO, M.K., kand. tekhn. nauk, red.; KUZNETSOVA, M.N., red. izd-va; MOCHALINA, Z.S., tekhn. red.

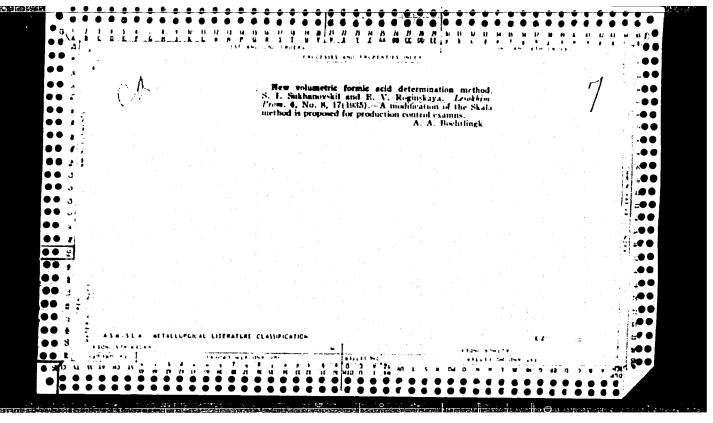
[Fireproof concrete and reinforced concrete in construction] Zharoupornye beton i zhelezobeton v stroitel'stve; trudy. Moskva, Gos. izd-vo lit-ry po stroit., arkhit.i stroit. materialam, 1962. 301 p. (MIRA 15:5)

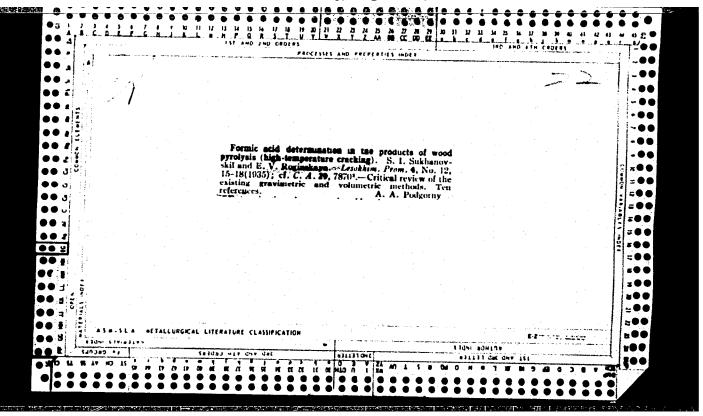
l. Vsesoyuznoye soveshchaniye po voprosam issledovaniya, proyektirovaniya, stroitel'stva i ekspluatatsii teplovykh agregatov iz zharoupornykh betona i zhelezobetona, 1960. 2. Nauchnoissledovatel'skiy institut betona i zhelezobetona Akademii stroitel'stva i arkhitektury SSSR (for Nekrasov, Al'tshuler, Mel'nikov, Milovanov, Milonov, Salmanov, Sassa, Tarasova). (Furnaces) (Concrete construction)

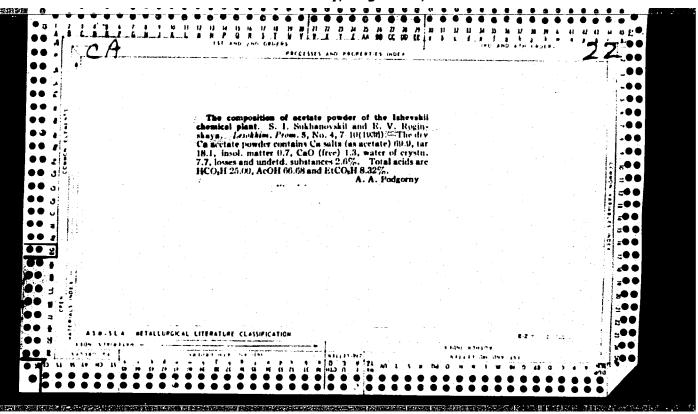


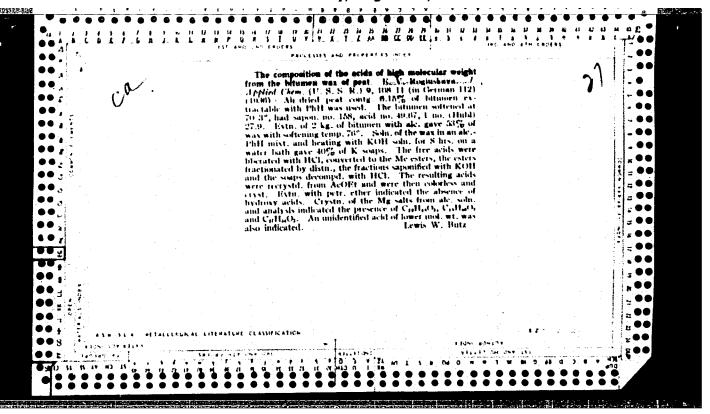


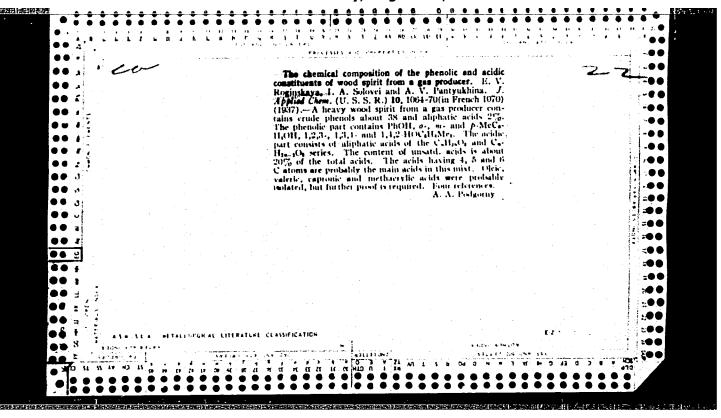


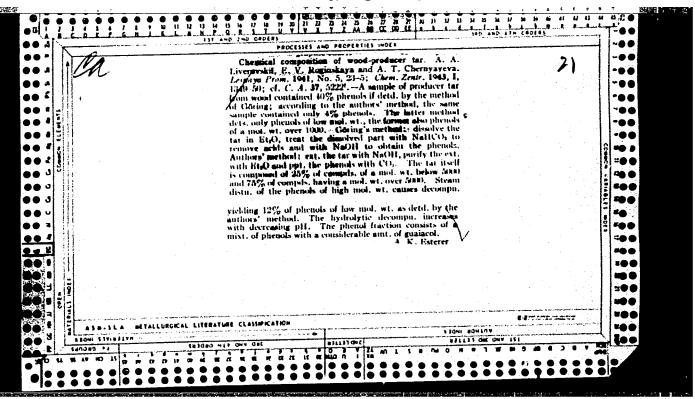


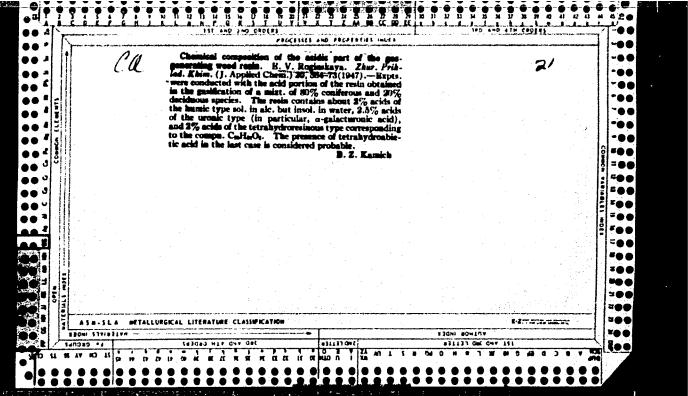








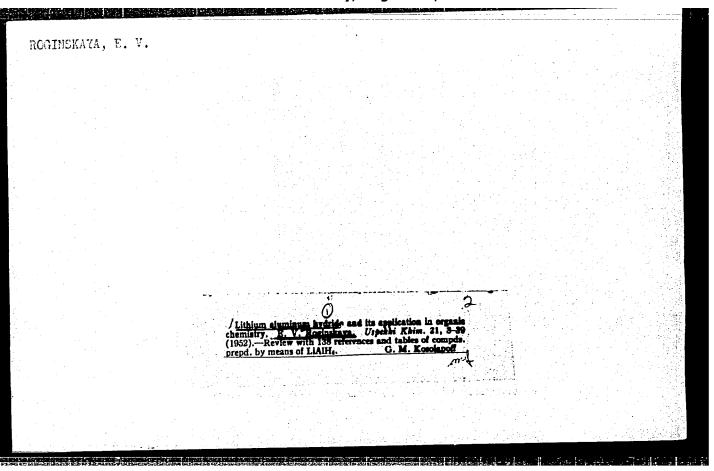




ROGINSKAYA. Ye. Y.

Chemistry, Analytical Lithium aluminum hydride and its use in organic chemistry. Usp. khim./No. 1, 1952

Monthly List of Russian Accessions, Library of Congress, June 1952. Unclassified



ROGINSKAYA, Ye. V.

Wood Tar

Chemical composition of the acidic part of gas-generating wood tar, Bum. prom. 28 No. 4, 1953

Monthly List of Russian Accessions, Library of Congress, June 1953, Uncl.

KUZNETSOV, S.G.; ROGINSKAYA, Ye.V.

Rate of acetylation of some cholinergic substances containing a hydroxyl group. Zhur.ob.khim. 31 no.10:3360-3366 0 '61. (MIRA 14:10)

1. Institut toksikologii Akademii meditsinskikh nauk SSSR, Leningrad.

(Parasympanthomimetic substances) (Acetylation)

KUZNETSOV, S.G.; ROGINSKAYA, Ye.V.

Comparative investigation of the rates of hydrolysis of cholinergic aminoalkyl esters and thioesters. Zhur. ob.khim. 32 nc. 6:2026-2029 Je '62. (MIRA 15:6)

1. Institut toksikologii Akademii meditsinskikh nauk SSSR. (Esters) (Choline) (Hydrolysis)

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

CIA-RDP86-00513R001445

KUZNETSOV, S.G.; ROGINSKAYA, Ye.V.

Rate of N-alkylation of some cholinergic substances containing a tertiary amino group. Zhur. ob. khim. 33 no.5:1570-1573

Ny 163. (MIRA 16:6)

(Farasympathomimetic substances)
(Amino group) (Alkylation)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA

CIA-RDP86-00513R0014451

ACC NRi	AP6025928	SOURCE CODE: UR/0301/66/012/004/0373/0376
AUTHOR:	Roginskaya, Ye. V.;	Shchekoldina, V. I.
Toxicor	aboratory for Drug Sy Ogy, Leningrad (Labor Logii Instituta toksi	onthesis and Laboratory of Pharmacology, Institute of catoriya sinteza lekarstvennykh preparatov i laboratoriya kologii)
TITLE:	On the possibility osterose inhibited by	of the participation of metals in the reactivation of organophosphorus compounds
SOURCE:	Voprosy meditsinsko	by khimii, v. 12, no. 4, 1966, 373-376
TOPIC T	AGS: cholinesterase i	nhibition, inhibited cholinesterase reactivation, metal
compeet,	monoisonitrosoaceto	ne, armin, ORGANIC OXIME COMPOUND, CHOLINESTERASE
	: According to publ:	ished theories, cholinesterase inhibited by
	organophosphorus	compounds may be reactivated with various
	nucleophiliic rea	gents which diphosphorylate the inhibited cholin-
	only some nucleon	king the P atom of the phosphoryl group. Since hillic reagents (hydroxamic acids and oximes)
	dephosphorylate in	nhibited cholinesterase and since the dephos-
	phorylation occurs	s under mild physiological conditions, it was
	suggested that the	e nucleophillic attack of oximes on the P atom
	is facilitated by	the presence of metals, which form coordina-
	tion bonds with pl	nosphoryl oxygen and thus weaken the P-0 bond.
	This was confirmed	i by the following experiments. Cholinesterase
	in blood sera and	brains of cats was treated with EDTA to remove
ard 1/3		UDC: 612.015.14:577.153.9-064:615.778.31.015.36

ACC NR: AP6025928

metal ions and then desalted. The cholinesterase in the control and in the desalted samples was inactivated by the addition of armin (ethyl p-nitrophenyl ethylphosphonate), then reactivated with mono-iso-nitrosoacetone. The degree of the cholineasterase inhibition was established by determining the rate constant K, of the hydrolysis of acetylcholine catalyzed by the initial, inhibited, and reactivated cholinesterase. The results showed that K_1 for the sera from which metals were removed was practically equal to zero, while K_1 for the control sera was 7 min⁻¹. This indicates that in the absence of metal ions the reactivation of inhibited cholinesterase with mono-iso-nitrosoacetone (MINA) does not take place, which proves the participation of metal ions in the reactivation of inhibited cholinesterase. To determine which metals participate in the reactivation process, various metals normally present in sera and Co and Ni were added to specimens from which metals were removed and $K_{\hat{l}}$ was determined after deactivation and reactivation of the cholinesterase. The results are shown in Table 1.

To determine the degree of reactivation with MINA of inhibited cholinesterase in vivo, white mice were poisoned with armin (0.5 mg/kg height of the animal) and MINA (30 mg/kg) was

ACC NR. APE		i as the anti	toxin. The	e results	are sho	wn in T	able 2.	
Activity of cholinesterase in the cured animals was determined one hor after the oxime was administered. Results on the effect of metals in the experiments with white mice are given in Fig. 1, which showed that Mg and Ni intensify the reactivating action of MINA, while Cu and Ca have no effect on the MINA activity. The effect of EDTA on the reactivating activity of MINA is shown in Fig. 2. [WA-50; CBE No. 12]								ed !
SUB CODE:		TE: 30Dec64/		*				
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MIRONOV, V.P.; KRASHKEVICH, K.V.; KRIVTSOVA, Ye.N.; KUL'KOVA, T.A.; ROGINSKAYA, Ye.Ya.

Laboratory investigation of the action of some repellents on the mature tick Dermacentor pictus Herm. Vest. Mosk. un. Ser. 6: Biol., pochv. 16 no.1:26-31 Ja-F '61. (MIRA 14:4)

l. Kafedra spetsial'noy podgotovki Moskovskogo universiteta. (TNSECT BAITS AND REPELLENTS) (TICKS)

VENEVTSEV, Yu. N.; ZHDANOV, G. S.; ROGINSKAYA, Yu. Ye.; FEDULOV, S. A.; IVANOVA, V. V.; CHKALOVA, V. V.; VISKOV, A. S.; KAPYSHEV, A. G. BONDARENKO, V. S.; LADYZHINSKIY, P. B.

Some solid solutions on the basis of the ferroelectricantiferromagnetic BiFeO3. Izv. AN SSSR. Ser. fiz. 28 no. 4: 683-690 Ap '64. (MIRA 17:5)

ACCESSION NR: AP4030644

\$/0048/64/028/004/0683/0690

AUTHOR: Venevtsov, Yu.N.; Zhdanov, G.S.; Roginskaya, Yu.Ye.; Fedulov, S.A.; Ivanova, V.V.; Chkalova, V.V.; Viskov, A.S.; Kapy*shev, A.G.; Bondarenko, V.S.; Lady*zhinskiy, P.B.

TITLE: Investigation of some solid solutions based on the ferroelectric-ferromagnet bismuth ferrite /Report, Symposium on Ferromagnetism and Ferroelectricity held in Leningrad 30 May to 5 June 1963/

SOURCE: AN SSSR. Izv. Ser.fiz., v.28, no.4, 1964, 683-690

TOPIC TAGS: ferromagnetism, ferroelectricity, bismuth ferrite, bismuth ferrite solid solution

ABSTRACT: By investigating solid solutions of Bi₂O₃•Fe₂O₃ in PbTiO₃, some of the authors, together with others, were able to show the existence of the compound Bi-FeO₃ with the perovskite structure and strong ferroelectric properties. This work is reviewed, and later investigations are reported of the electric and magnetic properties of solid solutions containing BiFeO₃. The solutions discussed are the two-component systems in which one component is BiFeO₃ and the other is LaFeO₃, LaCrO₃,

Card 1/3

ACCESSION NR: AP4030644

PbTiO3, BaTiO3, PbZrO3, LaAlO3, or SrSnO3. Of these solutes, two are ferromagnetic, two are ferroelectric, one is antiferroelectric and two are perovskites with normal magnetic and electric properties. Phase diagrams are given for the PbTiO3, LaCrO3, and BaTiO3 solutions. Curves of magnetization versus temperature are given for various compositions of the LaCrO3 and PbZrO3 solutions, and curves of dielectric constant versus temperature for the LaAlO3, PbZrO3 and BaTiO3 solutions. The Neel point is plotted against composition for all the solutions except those containing SrSnO3, which could not be obtained as a single phase. Extrapolation of the Curic points of the LaA103 and PbZrO3 solutions to zero concentration confirmed the high ferroelectric Curie point (about 050°C) of BiFeO3. The weak ferromagnetic properties of Bi-FeO3 persisted in solutions containing high concentrations of materials without peculiar magnetic properties. Particularly interesting is the concentration dependence of the spontaneous magnetization of the LaCrO3 solutions; the magnetization increaseddiscontinuously as the system crossed the boundary from the ferroelectric to the antiferroelectric state. The LaFeO3 solutions are said to have behaved similarly; but as these solutions have been discussed in detail elsewhere (Yu.B. Roginskaya, Yu. N. Venevtsev, G.S. Zhdanov and S.A. Fedulov, Kristallografiya, 8,1963), the data are not given. An anomaly in the Mossbauer spectrum of the SrSnO3 solutions that was pre-

 $Card^{2/3}$

ACCESSION NR: AP4030644

viously ascribed to a ferroelectric transition (Fam Zui Khiyen, A.S. Viskov, V.C. Shpinel' and Yu.N.Venevtsev, Zhur.eksp.i teor.fiz.,44,1963) is now believed to be due to antiferromagnetic ordering. Orig.art.has: 10 figures.

ASSOCIATION: none

SUBMITTED: 00

DATE ACQ: 30Apr64

ENCL: 00

SUB CODE: EM

NR REF SOV: 016

OTHER: 006

Card 3/3

ROGINSKA YA, Yu. Ye.

"Investigation of some solid solutions based on the ferroelectricantiferromagnetic FiFeO."

report presented at the Symposium on Phase Transitions in Solids, 6th General Assembly, Intl. Union of Crystallography, Rome, Italy, 16-18 Sep 1963.

(Karpov Institute of Physical Chemistry, Moscow, USSR)

VENEVTSEV, Yu. N.; ZHDANOV, G. S.; ROGINSKAYA, Yu. Ye.; FEDULOV, S. A.; IVANOVA, V. V.

"Investigation of some solid solutions based on the ferroelectric-antiferromagnetic ${\tt BiFeO_3."}$

report submitted for 6th Gen Assembly, Intl Union of Crystallography, Rome, 9 Sep 63.

Karpov Inst of Physical Chemistry, Moscow.

S/056/63/044/004/043/044 B102/B186

AUTHORS: Roginskaya, Yu. Ye., Venevtsev, Yu. N., Zhdanov, G. S.

TITLE: The coexistence of antiferromagnetic and special dielectric properties in the system BiFeO₃-LaFeO₃

PERIODICAL: Zhurnal eksperimental noy i teoreticheskoy fiziki, v. 44, no. 4, 1963, 1418 - 1420

TEXT: The system BiFeO₃-LaFeO₃ was analyzed with regard to magnetization and phase composition. The first component is a ferroelectric-antiferromagnetic, the second an antiferromagnetic with weak ferromagnetism. An X ray-structural analysis at room temperature showed that in the whole concentration range a continuous series of solid solutions of perovskite-type structure is formed. They belong to four modifications (ranges given in mol% LaFeO₃): rhombohedral (up to 18.8), pseudo-monoclinic I (18.8 - 55), pseudo-monoclinic II (55 - 73), and pseudo-monoclinic III (above 73). The magnetic measurements were made according to the Farady method in fields up to 8 koe and in the temperature range 20 - 500°C. Compositions with 12.5, and 17.5% LaFeO₃ and all pseudo-monoclinic modifications showed Card 1/2

The coexistence of antiferromagnetic...

S/056/63/044/004/043/044 B102/B186

spontaneous magnetization and are assumed to be antiferromagnetics with weak ferromagnetism. At the limit of the p-m I modification the spontaneous magnetization increases in jumps, and with further LaFeO₃ addition -

linearly. The temperature dependence of the dielectric constant was also measured for several samples. The results were finally used to construct a phase diagram. Its characteristic features are: ferroelectric properties with weak ferromagnetism up to 18.8% LaFeO₃; antiferroelectric with weak

ferromagnetism from 18.8 - 55%; coexistence of electric and magnetic ordering; the jump in spontaneous magnetization coincides with the transition from ferroelectric to antiferroelectric, at the phase transition point at 18.8% LaFeO₃. Results of more detailed investigations will be published in the Journal "Kristallografiya". There are 2 figures.

ASSOCIATION: Fiziko-khimicheskiy institut im. L. Ya. Karpova (Physico-

chemical Institute imeni L. Ya. Karpov)

SUBMITTED: January 29, 1963

Card 2/2

edulov, S. A.; Zhdanov, G. S. and electrical properties of 616
and electrical properties of
616
erromagnet, ferroelectric, Perrate (III), lanthanum ortho- bismuth orthoferrite-lanthanum oferrite system, bismuth ortho- n, distorted perovskite structurations has been studied in order ties of compounds such as BiFeO3 th antiferromagnetic properties nt-grade Bi2O3, La2O3, and Fe2O3 then at 850—1300C for 1.5 hr. ra and FeKa x-ray. The unit-cel

L 14282-63 ACCESSION NR: AP3004098

parameters were determined by a method previously described (Zavodsk, laboratoriya, 27, 1113, 1961). The x-ray phase analysis revealed the existence of a continuous solid solution over the entire composition range. Plots of the parameters versus LaFeO, content in the sample indicated four crystalline modifications of the solid solution: one rhombohedral, in the 0-18.8 mol% LaFeO3 range, and three pseudomonoclinic, PM I, PM II, and PM III, in the 18.8-55, 55-73, and 73-100 moly LaFeO3 ranges, respectively. When LaFeO3 content is increased, a sharp discontinuity in the parameters is noted on transitions between modifications, together with a decrease in volume of the unit-cell. Weak superstructural lines on x-ray diagrams of the PM I samples show the similarity of this structure to that of PbZrO3, which is antiferroelectric. Magnetic measurements were carried out by the Faraday method with equipment developed by NIFKhI. The similarity between the curves of magnetization versus temperature in the 0-6000 range, and the presence of spontaneous magnetization (Oo) at room temperature over the entire composition range made it possible to conclude that all samples were entiferromagnetic. The evolution of o with the composition may be seen from Fig. 1 of the Enclosure. The dielectric constant (E) was measured with an MPP-300 bridge, and the temperature dependence of conductivity, with a VOIU-1,

Card 2/84/

L. 14282-63 ACCESSION NR: AP3004098

voltmeter. The maximum conductivity was found in samples with 40 and 50% LaFeO. One of the two breaks on each of the curves of conductivity versus temperature coincided with the Neel temperature (T_N). The peaks on the curves of ε versus temperature, together with the x-ray data, establish the anomalous dielectric properties of samples in the 25—45% LaFeO, range. The ε of samples with more than 45% LaFeO, increases continuously with increasing temperature. It is concluded that the rhombohedral modification (with less than 18.8 mol% LaFeO,) is ferroelectric because of the presence of peaks on the ε versus t curves in the rhombohedral region of the BiFeO,-LaFeO, system, although the peaks were absent in that region in the system studied. The phase diagram of the system, shown in Fig. 1, was established on the basis of all the data considered. The T_c line represents the ferroelectric Curie points and the T_N line, the Neel temperature. Two regions of the diagram are of particular interest, that of compositions up to 18.8 mol% LaFeO, which combine ferroelectric with antiferromagnetic properties and that of compositions in the 18.8—55 mol% LaFeO, range, which combine antiferroelectric with weak ferromagnetic properties. Coincidence of the transition between the two regions with the discontinuity of σ_O is considered proof of a definite interconnection between the special electrical and magnetic properties

Card 3/4/

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atel'skiy fiziko-khimicheskiy hysicochemical Institute)	institut im. L. Ya.
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	hysicochemical Institute) DATE ACQ: 15Aug63

1. 34891-65 EWG(j)/EWT(1)/EWT(m)/EPF(c)/EPR/T/EWP(t)/EWP(b)/EWA(h) Pr-4/Ps-4/Pt-10 IJP(c) JD/JG/GG

ACCESSION NR: AF5005274 S/0181/65/007/002/0400/0406

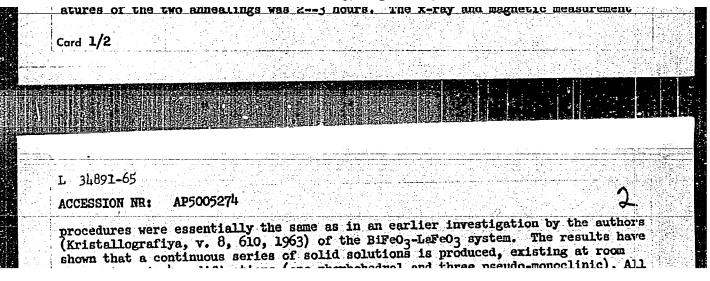
AUTHOR: Roginskaya, Yu. Ye.; Venevtsev, Yu. N.

TITLE: Investigation of solid solutions in the BiFeO3-LaGro3 system

SOURCE: Fizika tverdogo tela, v. 7, no. 2, 1965, 400-406

TOPIC TAGS: solid solution, magnetic property, antiferromagnetism, bismuth compound, lanthanum compound, dielectric property, magnetic property

ABSTRACT: The purpose of the investigation was to establish the character of the dielectric and magnetic properties of solid solutions based on this system, to determine the regions in which these properties are possessed by the solid solution



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JD/JG/GG EWT(1)/EWT(m)/EWP(w)/EPF(n)-2/T/EWP(t) IJP(c) SOURCE CODE: UR/0056/66/050/001/0069/0075 AF6004921 ACC NR: AUTHOR: Roginskaya, Yu. Ye.; Tomashpol'skiy, Yu. Yu.; Venevtsev, Yu. N.; Petr V. M.; Zhdanov, G. S. ORG: Physicochemical Institute im. L. Ya. Karpov (Fiziko-khimicheskiy institut) TITLE: On the character of dielectric and magnetic properties of BiFeO3. SOURCE: Zhurnal eksperimental noy i teoreticheskoy fiziki. v. 50, no. 1, 1966, 69-75 TOPIC TAGS: bismuth compound, ferroelectric material, dielectric property, solid solution, Curie point, Neel temperature, magnetic property ABSTRACT: This is a continuation of earlier work by the authors on BiFeO3 (ZhETF v. 46, 1921, 1964). In view of the contradictory reports on the properties of BiFeO₃, especially with respect to its ferroelectric properties, the authors analyze the published data and in addition carried out a more detailed investigation of the dielectric properties and the structure of BiFeO₃ in a broad range of temperatures, as well as of solid solutions of this substance with PbFe_{1/2}Nb_{1/2}O₃. Particular attention is paid to the 400--500C region, and to the solid solution. The polycrystalline samples for the investigation were prepared by the usual ceramic techniques. The dielectric constant and the loss angle were measured at Card 1/2

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ACC NR: AP6004921

500 Mcs by the coaxial-line method. Other specific properties of BiFeO₃ in addition to the large internal fields and large spontaneous polarization, were a high Curie temperature (850C), and the absence of nonlinear properties at room temperature. An analysis of all the published data and the present results shows that in spite of the fact that the spontaneous electric polarization of BiFeO₃ is very high, so that no dielectric hysteresis loops could be obtained, this substance is ferroelectric. Various reasons for this conclusion are discussed. An analysis of the magnetic properties below the Neel temperature (370C) also shows that BiFeO₃ figures.

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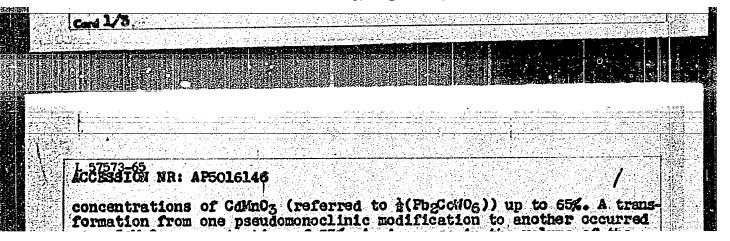
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