

VINOGRADOVA, YE. FEOFILAKTOV, V.

"The Action of Diazobenzene on Alkoylacetylacetic Esters as a Means of Obtaining
the Phenylhydrazones of Ketonic and Amino Acids" Part II. "The Synthesis of
Phenylallanine," Zhur. Obshch. Khim., 10, No. 3, 1940. Laboratory of Albumen,
Academy of Science USSR. Received 29 August 1939.

[redacted] Report U-1526, 24 Oct 52.

VINOGRADOVA, Ye.A.; KORSHUN, L.L.; NOTKIN, M.M.

Finishing of particle boards with the PE-219 polyester varnish.
Der.prom. 11, no.3:24-25 Mr '62. (MIRA 15:2)
(Hardboard)
(Varnish and varnishing)

BUDAK, B.M.; VINOGRADOVA, Ye.A.; GLASKO, V.B.; KONONKOVA, G.Ye.;
POBORCHAYA, L.V.

Problem of unsteady water movement in a reservoir solved
by an electronic computer. Meteor. i gidrol. no.12:14-21
D '63. (MIRA 17:3)

1. Moskovskiy gosudarstvennyy universitet, fizicheskiy
fakul'tet.

VINOGRADOVA, Ye.A.

Occurrence of sapropelic deposits and methods for studying their
geomorphology. Metod.izuch.sapr.otl. no.1:5-9 '53. (MLRA 10:2)

1. Kafedra torfyanykh mestorozhdeniy Moskovskogo torfyanogo
instituta Ministerstva vysshego obrazovaniya.
(Sapropels)

VINOGRADOVA, Ye.A.

Method for studying the mineral composition of sapropelic
deposits. Metod.izuch.sapr.otl. no.1:130-142 '53. (MLRA 10:2)

1. Kafedra torfyanykh mestorozhdeniy Moskovskogo torfyanogo
instituta Ministerstva vysshego obrazovaniya.
(Sapropels.)

15-57-4-4734

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 4,
p 105 (USSR)

AUTHOR: Vinogradova, Ye. A.

TITLE: Mineralogy of the Bottom Sediments in Lake Nero
(Mineralogicheskaya kharakteristika donnykh otlozheniy
ozera Nero)

PERIODICAL: Tr. Labor. sapropel. otlozheniy. In-t lesa AN SSSR,
1956, Nr 6, pp 161-167.

ABSTRACT: Sapropel and clay sediments from Lake Nero were studied
to determine the mineral content. Quartz is the principal clastic mineral in the light fraction of sapropel,
0.25 mm to 0.05 mm, from a depth of 0.5 m. Its sub-
rounded and acutely angular fragments in places contain
needles of apatite and gas vacuoles. Vivianite is
concentrated in this fraction. It has marked pleo-
chroism (Ng, dark blue and Np, pale green), negative
elongation, and perfect prismatic cleavage. Ng is
1.630 and Np, 1.58. The sapropelitic deposits also con-

Card 1/2

15-57-4-4734

Mineralogy of the Bottom Sediments in Lake Nero (Cont.)

tain authigenic calcite, dolomite, pyrite with colloform structure, and vivianite. Grains of green hornblende are among the most significant of transparent clastic minerals. Some of the hornblende is replaced by chlorite; others contain inclusions of small rounded epidote grains. Large angular fragments of rose almandite, some containing biotite inclusions, are the most abundant garnet representative. Limonite, which formed from other minerals, develops shaggy fragments and small spherical pellets, pseudomorphous after colloform pyrite. Study of the mineral content of the heavy fraction, 0.25 mm to 0.05 mm, of sandy loams and the upper moraine showed a higher quantity of garnet, disthene, and staurolite than in the sapropelitic deposits. Subrounded dark fragments of staurolite contain dark opaque inclusions. The principal mineral of the light fraction, 0.25 mm to 0.01 mm (sic), is quartz. Plagioclase is strongly decomposed. Microcline with grid twinning and the plagioclase intergrowths is similar to the microcline and microcline perthite of the sapropelitic deposits. With increase in the degree of grinding of the material, the plagioclase content increases.

Card 2/2

G. A. G.

S/762/61/000/000/011/029

AUTHORS: Vinogradova, Ye.A., Kokhova, G.M., Lashko, N.F.

TITLE: Phase analysis of heat-treated BT3 (VT3) and BT3-1 (VT3-1) alloys.

SOURCE: Titan v promyshlennosti; sbornik statey. Ed. by S. G. Glazunov.
Moscow, 1961, 121-130.

TEXT: The paper comprises a status report on an experimental investigation of the phase composition of the VT3 and VT3-1 alloys of the Ti-Al-Cr-Mo system and the effects thereon of heat treatment. Some of the source data are drawn from Blok, N.I., et al., Zavodskaya laboratoriya, no.2, 1958, 141, and pp.112-120 of the present compendium (Abstract S/762/61/000/000/010/029). At working temperatures the VT3 alloy is found to be two-phase, with an α - (or α' -) phase matrix. During cooling of the alloy from high temperatures (HT), the HT β phase may undergo one of three transformations: (1) During fast cooling the β phase transforms into the metastable α' ; (2) during fairly slow cooling the β phase transforms into the metastable α' phase and some residual β phase; (3) very slow cooling leads to the eutectoid decomposition $\beta \rightarrow \alpha + \text{TiCr}_2$. A residual β phase, enriched with Cr, will also form, both during very slow cooling and in the process of aging. In the latter, the alloying elements are redistributed between the α and the β phase.

Card 1/3

Phase analysis of heat-treated BT3 (VT3)...

S/762/61/000/000/011/029

An increase in the aging temperature of VT3 and VT3-1 alloys to 500-550°C enhances the enrichment of the residual β phase with alloying elements. The hardness (H) and ductility (D) characteristics of these alloys can be greatly varied by increases in the aging T after single quenching. The changes in H and D and in the lattice parameters are graphed against T (at 50°C intervals, up to 700-800°). Greatest H and smallest D is obtained upon quenching and subsequent aging at 450-550°. This is attributed to decomposition of the α' phase, separation of a dispersive α phase, and - to some extent - the state of the β phase. Thus, the properties of the two alloys after heat treatment are governed by the state, distribution, and form of the particles of α , α' , β , and TiCr₂ and the redistribution of the alloying elements, and not by the formation of a metastable ω phase erroneously postulated by others. The tests comprised melts with differing contents of alloying elements, prepared in vacuum arc furnaces with consumable electrodes, in which TG-1 (TG-1) Ti and a 50:50 Al-Cr ligature and a 60:20:15 Al-Cr-Mo ligature are fused. The chemical melt composition is tabulated. Phase analysis after 850° quench ($\alpha+\beta$ -phase region) and 980-990° quench (β -phase region) and 400-700° aging was performed by the powder method (3 full-page tabulations and graph). The total β -phase content did not exceed 8.5% by weight, while the α (or α') content did not go below 90%. A total β -phase quench was not achieved. The hydrogen content, which could possibly have been responsible for brittleness, was within the bounds specified

Card 2/3

Phase analysis of heat-treated BT3 (VT3) ...

S/762/61/000/000/011/029

by the Technical Specs. No Ti hydride was found. The geometric characteristics of the various phases, including the laminar nature of the β phase, the acicular form of the α' phase, the appearance of an overall basketlike structure, and the segregation of a phase as a continuous edging at the grain boundaries are described in detail. Desirable avenues for future research are outlined. There are 4 tables and 3 figures; 2 Russian-language Soviet references are cited at the beginning of the text.

ASSOCIATION: None given.

Card 3/3

34524
S/659/61/007/000/011/044
D217/D303

18.11.20

AUTHORS: Lashko, N.F., Popova, N.M., Orekhov, G.N., and
Vinogradova, Ye.A.

TITLE: Carbo-boride phases in alloy steels

SOURCE: Akademiya nauk SSSR. Institut metallurgii. Issledovaniya po zharoprochnym splavam, v. 7, 1961, 112 - 121

TEXT: The authors endeavored to find whether carboborides based on carbide phases of the type $Me_{23}C_6$ can exist in steels. Two varieties of carbide of the above type have been found in steels: $Fe_{21}W_2C_6$ and $Cr_{23}C_6$. Therefore, two steels were investigated, each containing one of the $Me_{23}C_6$ types of carbide. The steel 30X2H2BA (30Kh2N2VA) was used as the $Fe_{21}W_2C_6$ containing material, in which this compound forms independently, or together with the carbice Me_3C . Steel 3И268 (EI268) was used as a representative steel containing a carbide based on $Cr_{23}C_6$. The steels were melted in a high frequency

Card 1/4

X

S/659/61/007/000/011/044
D217/D303

Carbo-boride phases in alloy steels

furnace of 150 kg capacity and cast into ingots weighing 17 kg in such a manner that each ingot should have a definite boron content. The ingots were forged into rods, which were oil-quenched from 1100 °C. They were then tempered at 600° and 700°C for 30 minutes, 1, 10, 100 and 300 hours. For the separation of the anode deposit from specimens of steel 30Kh2N2VA, electrolytic dissolution for 5 hours in an ice-cold solution consisting of 75 g/l KCl + 5 g/l citric acid was used at a low current density (0.02 A/dm²). The precipitates obtained were analyzed chemically for Fe, Cr and W. For the estimation of B, an anodic deposit was again produced. It was washed with water by decantation, transferred into a conical flask and decomposed with a little H₂SO₄ (1 : 2) with addition of a few drops of H₂O₂. After dissolving the deposit, the solution was boiled until the H₂O₂ was completely decomposed. Small quantities of B were determined calorimetrically, and larger quantities (> 0.1 %) volumetrically. In order to separate the anode deposit from the Cr-Ni steel EI268, anodic dissolution was used in a solution contain-

Card 2/4

S/659/61/007/000/011/044
D217/D303

Carbo-boride phases in alloy steels

ing 75 g/l KCl, 5 g/l $\text{Na}_2\text{S}_2\text{O}_3$, 20 ml/l HCl (1.19) at 20°C , and a current density of 0.02 A/cm^2 for 4 hours. An X-ray investigation was carried out, using the powder method, in Co, Fe and CuK α radiation. It was found that B added to steel 30Kh2N2VA, decreases the solid solubility of Cr and W, and in steel EI268 the solid solubility of Cr. In boron-free 30Kh2N2VA steel, the carbides $(\text{Fe}, \text{Cr})_3\text{C}$, $(\text{Cr}, \text{Fe})_7\text{C}_3$ and $\text{Fe}_{21}(\text{W}, \text{Cr})_2\text{C}_6$ form, according to temperatures and duration of tempering. According to the boron content and tempering conditions, the carbo-boride phases $(\text{Fe}, \text{Cr})_3(\text{C}, \text{B})$, $\text{Fe}_{21}(\text{W}, \text{C})_2(\text{C}, \text{B})_6$ and the carbide phase $\text{Fe}_{21}(\text{W}, \text{Cr})_2\text{C}_6$ form. An EI268 steel containing 0.1 - 0.2 % B, contains a carboboride phase of variable composition, $(\text{Cr}, \text{Fe})_2(\text{B}, \text{C})$ having a rhombic crystal structure.

Alloying steel 30Kh2N2VA with boron causes a decrease in static strength, plasticity and creep resistance at 20°C . The stress to failure at 550°C is higher than that of steel free from B. The mechanical properties of the steel EI268 on testing for static failu-

Card 3/4

X

Carbo-boride phases in alloy steels

S/659/61/007/000/011/044
D217/D303

re changed little on alloying it with B up to 0.23 %. The stress to fracture at 550°C of steel EI268 containing 0.018 - 0.25 % B is somewhat higher than that of boron-free steel. There are 6 figures, 7 tables and 3 non-Soviet-bloc references. The references to the English-language publications read as follows: M.E. Nicholson, J. Metals, 9, no. 1 (section 2), 1957; R. Kiessling, Acta Chem. Scand., 3, 1949.

X

Card 4/4

BLOK, N.I.; GLAZOVA, A.I.; LASHKO, N.F.; KURAYEVA, V.P.; MOLCHANOV, Ye.K.;
Prinimali uchastiye: VINOGRADOVA, Ye.A.; ZVONTSOVA, Ye.V.;
POLYAKOVA, L.V.

Phase analysis of alloys on the titanium basis. Zav. lab. 27
(MIRA 15:1)
no. 12:1470-1472 '61.
(Titanium alloys) (Phase rule and equilibrium)

ACCESSION NR: AT4007052

S/2598/63/000/010/0293/0299

AUTHOR: Vinogradova, Ye. A.; Lashko, N. F.; Moiseyev, V. N.

TITLE: Formation of metastable phases and its effect on the properties of alpha and beta titanium alloys

SOURCE: AN SSSR. Institut metallurgii. Titen i yego splavy, no. 10, 1963.
Issledovaniya titanovykh splavov, 293-299

TOPIC TAGS: titanium alloy, alpha beta titanium alloy, titanium alloy property, VT-14 titanium alloy, VT-14-1-titanium alloy, phase transformation, metastable phase formation, metastable phase, alloy phase composition

ABSTRACT: The authors point out that the Ti alloys VT-14 and VT-14-1 are characterized by large amounts of stable and metastable β phases, and that rapid quenching of VT-14 leads to the formation of the martensitic α' phase while VT-14-1 (containing more Mo and V) forms α' or α' and β phases depending on the cooling rate. The present paper is devoted to an X-ray analysis of the phase transformations in these two Ti alloys, and to a study of their effect on the mechanical properties of the alloy. The effect of quenching from various temperatures on the mechanical properties of VT-14 is shown in Fig. 1 of the Enclosure, indicating that the strength increases with increasing quenching temperature while the yield point:

Card 1/4

ACCESSION NR: AT4007052

passes through a minimum. While investigating the reason for this decrease in yield point, the authors found that the lattice parameter of the β -phase increases with quenching temperature in monolithic samples, but is constant in the β -phase isolated from VT-14 alloys. They therefore conclude that the decrease in yield point of quenched Ti alloys is due to an increase in the amount and stability of the β -phase, which is destroyed during plastic deformation. The authors go on to investigate the effect of destruction of the metastable β - and α' -phases on the phase composition and properties of an $\alpha + \beta$ Ti alloy, demonstrating that the proportions of the α -, α' -, α'' -, β - and ξ -phases in the final alloy depend on the heating temperature and cooling rate. As the heating temperature and cooling rate are increased, the structural metastability of the alloy increases, resulting in turn in a lower yield point and the formation of a metastable β phase which decomposes to the α' phase and even the $\alpha(\alpha') + \beta$ phase during subsequent aging. At almost all temperatures, isothermal aging results in a lowered yield point and increased plasticity. Finally, the authors discuss the reversibility of this transformation ($\beta \rightarrow \alpha'$) and the metastable transformations taking place in Ti alloys during plastic deformation (cold rolling); the latter process seems to induce transformation of β into α' and then α'' after quenching from 750°C, but the reverse (at least for a deformation of no more than 5%) after quenching from 850°C; 20% deformation after quenching from 850°C again results in $\beta \rightarrow \alpha'$ transformation. The effect of plastic deformation on the mechanical properties of these metastable

Card 2/4

ACCESSION NR: AT4007052

alloys was somewhat unusual, in that the yield point of an alloy containing 7.1% Mo and 2.3% Al and quenched from 750C decreased and the % elongation increased (both irregularly) with increasing deformation (0-25%). Orig. art. has: 6 tables and 5 figures.

ASSOCIATION: Institut metallurgii AN SSSR (Metallurgical Institute, AN SSSR)

SUBMITTED: 00

DATE ACQ: 27Dec63

ENCL: 01

SUB CODE: XM

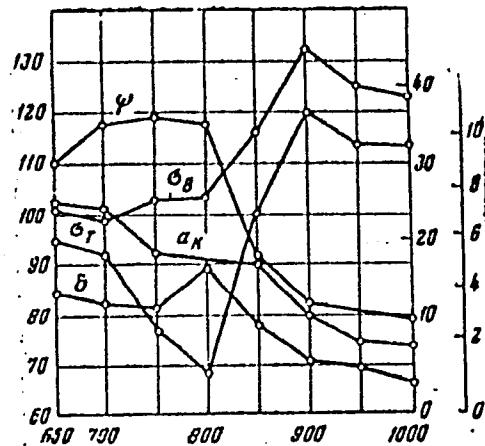
NO REF Sov: 001

OTHER: 001

Card 3/4

ACCESSION NR: AT4007052

ENCLOSURE: 01



Changes in the mechanical properties of alloy VT-14 after quenching in water from various temperatures.

Ordinate = kg/mm² on the left and kg·m/mm² on the right; abscissa = quenching temperature in °C.

Card 4/4

VINOGRADOVA, Ye.A.; GLAZOVA, A.I.; LASHKO, N.F. (Moskva); Prinimali
uchastiyе: GUS'KOVA, Ye.I.; POLYAKOVA, L.V.

Using anodic phase isolation for determining the solubility of
some elements in the α -phase of titanium alloys. Zhur. fiz.
khim. 37 no.12:2734-2739 D '63. (MIRA 17:1)

VINOGRADOVA, Ye.A., kand. fiz.-matem. nauk; KONONKOVA, G.Ye., kand. fiz.-
matem. nauk

Experimental study of the transformation of a reservoir release
wave on a model of a river type reservoir. Meteor. i gidrol.
no.10:46-49 O '65. (MIRA 18:9)

1. Moskovskiy gosudarstvennyy universitet.

DUBROVKIN, V.L.[deceased]; CHEKLINA, Ye.A.; VINOGRADOVA, Ye.A.;
TSAREVA, A.M.; POPOV, V.V., prof., red.

[Engineering geology characteristics of loess in the Kursk
Magnetic Anomaly] Inzhenerno-geologicheskaiia kharakteristi-
ka lessovykh porod territorii KMA [By] V.L.Dubrovkin i dr.
Moskva, Nedra, 1964. 198 p. (MIRA 18:2)

1. Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut
gidrogeologii i inzhenernyy geologii.

ACCESSION NO. A1991114

AUTHORS: Vinogradova, Ye. A., Lashko, N. F., Tarasenko, G. N.

Card 1/2

L 4 M 1-75

ACCESSION NR: AT5011354

ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED

ASSOCIATION: none

SUBMITTED: 17 Dec 04

TYPE: MM,55

NO REF Sov:

Card 2/2

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001860010010-4

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001860010010-4"

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001860010010-4

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001860010010-4"

VINOGRADOVA, Ye.B.

Photoperiodic reactivity of the malaria mosquito *Anopheles maculipennis messeae* Fall. Uch. zap. LGU no.240:52-60 '58. (MIREA 11:9)
(Photoperiodism) (Mosquitoes)

VINOGRADOVA, Ye. B.

Cand Biol Sci - (diss) "Experimental study of the control of seasonal cycles of several blood-sucking mosquitoes." Leningrad, 1961. 17 pp; (Leningrad Order of Lenin State Univ imeni A. A. Zhdanov); 180 copies; price not given; (KL, 7-61 sup, 226)

VINOGRADOVA, Ye.B.

Experimental investigation of ecological factors inducing
the imaginal diapause in bloodsucking mosquitoes (Diptera,
Culicidae). Ent. oboz. 39 no.2:327-340 '60. (MIRA 13:9)

1. Kafedra entomologii Leningradskogo gosudarstvennogo
universiteta i Zoologicheskiy institut Akademii nauk SSSR,
Leningrad.
(Mosquitoes) (Insects--Development) (Photoperiodism)

VINOGRADOVA, Ye.B.

Biological differentiation of subspecies of *Culex pipiens* L.
(Diptera, Culicidae). Ent. oboz. 40 no.1:63-75 '61.
(MIRA 14:4)

1. Zoologicheskiy institut AN SSSR, Leningrad.
(Mosquitoes)

VINOGRADOVA, Ye.B.

Role of photoperiodism in the seasonal development of the
malaria mosquito Anopheles plumbeus Steph (Diptera, Culicidae). Dokl.
AN SSSR 142 no.2:481-483 Ja '62. (УДК 15:2)

1. Zoologicheskiy institut AN SSSR. Predstavлено академиком
Ye.N.Pavlovskim.

(Photoperiodism)
(Mosquitoes)

VINOGRADOVA, Ye.B.

Ecologic regulation of the seasonal cycle in *Anopheles bifurcatus* L.
(Diptera, Culicidae). Dokl. AN SSSR 151 no.5:1204-1206 Ag '63.
(MIRA 16:9)

1. Zoologicheskiy institut AN SSSR. Predstavлено академиком
Ye.N.Pavlovskim.
(Insects--Development) (Mosquitoes)

VINOGRADOVA, Ye.B.

Experimental study of factors regulating the occurrence of
embryonic diapause in Aedes togoi Theob. (Diptera, Culicidae).
Ent. oboz. 44 no.3:527-537 '65. (MIRA 18:9)

1. Zoologicheskiy institut AN SSSR, Leningrad.

VINOGRADOVA, Ye.B.

Autogenous development of the ovaries in bloodsucking mosquitoes.
Zool. zhur. 44 no.2:210-219 '65. (MIRA 18:5)

1. Zoologicheskiy institut AN SSSR, Leningrad.

IRODOV, M.V., kand.tekhn. nauk; MAKHINYA, V.M., inzh.; Prinimali
uchastiye: VINOGRADOVA, Ye.F.; YELISEYEVA, N.S.

Obtaining improved glycerin from industrial bone fats. Masl.-
zhir. prom. 29 no.6:21-24 Je '63. (MIRA 16:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut zhirov.
(Glycerol) (Bone products)

Accumulation of biogenic elements in the sediment solutions of the North Caspian, according to the character of the bottom deposits. S. V. Bruevich and B. G. Vinogradova. *Comp. revd. eng. sci. U. R. S. S.* 27, 575-81 (1940) (in English).—Chem. data show the content of various bottom deposits. Vertical distribution of salinity and of biogenic elements in the sediment solutions of the North Caspian. *Ibid.*, 579-81. Stagn. chem. data are tabulated. Walter H. Beegers

V

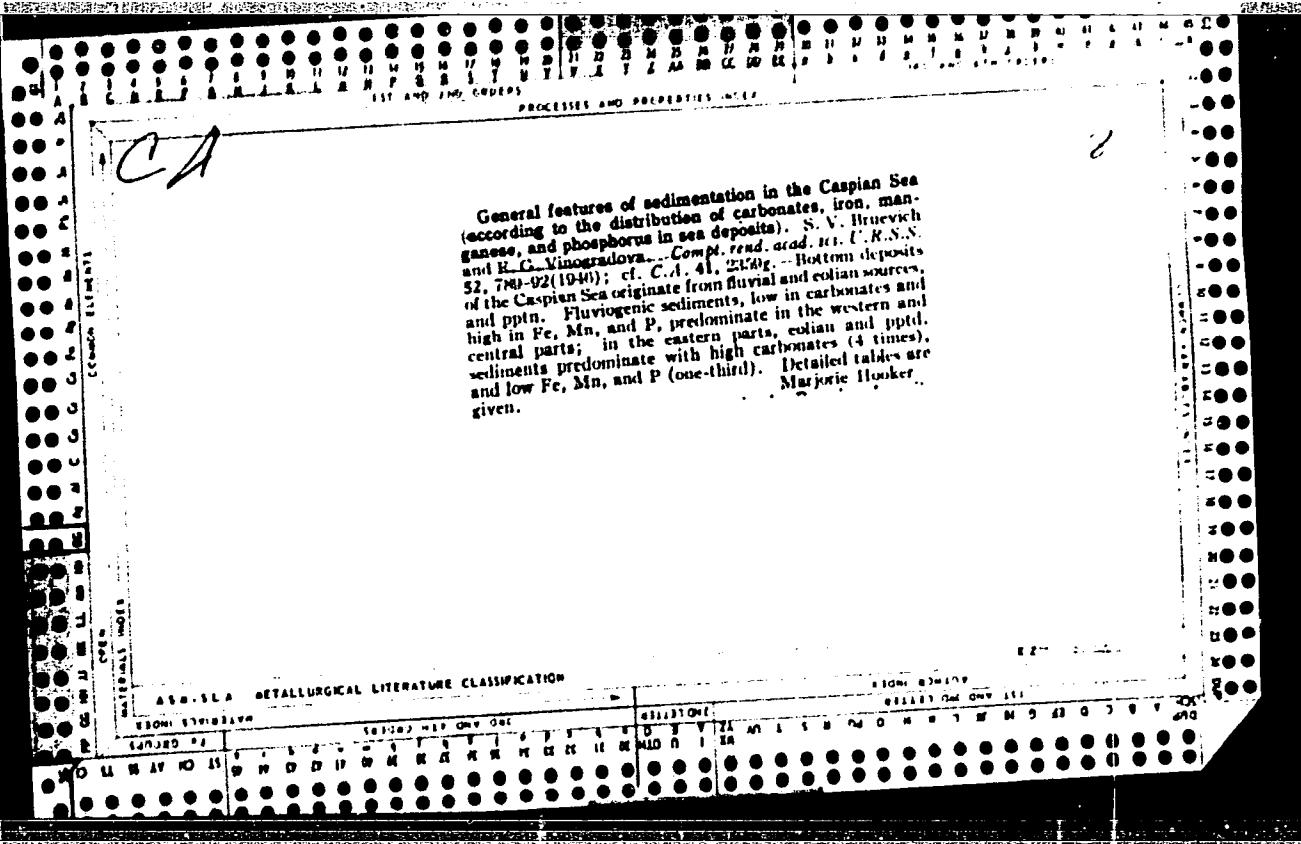
2

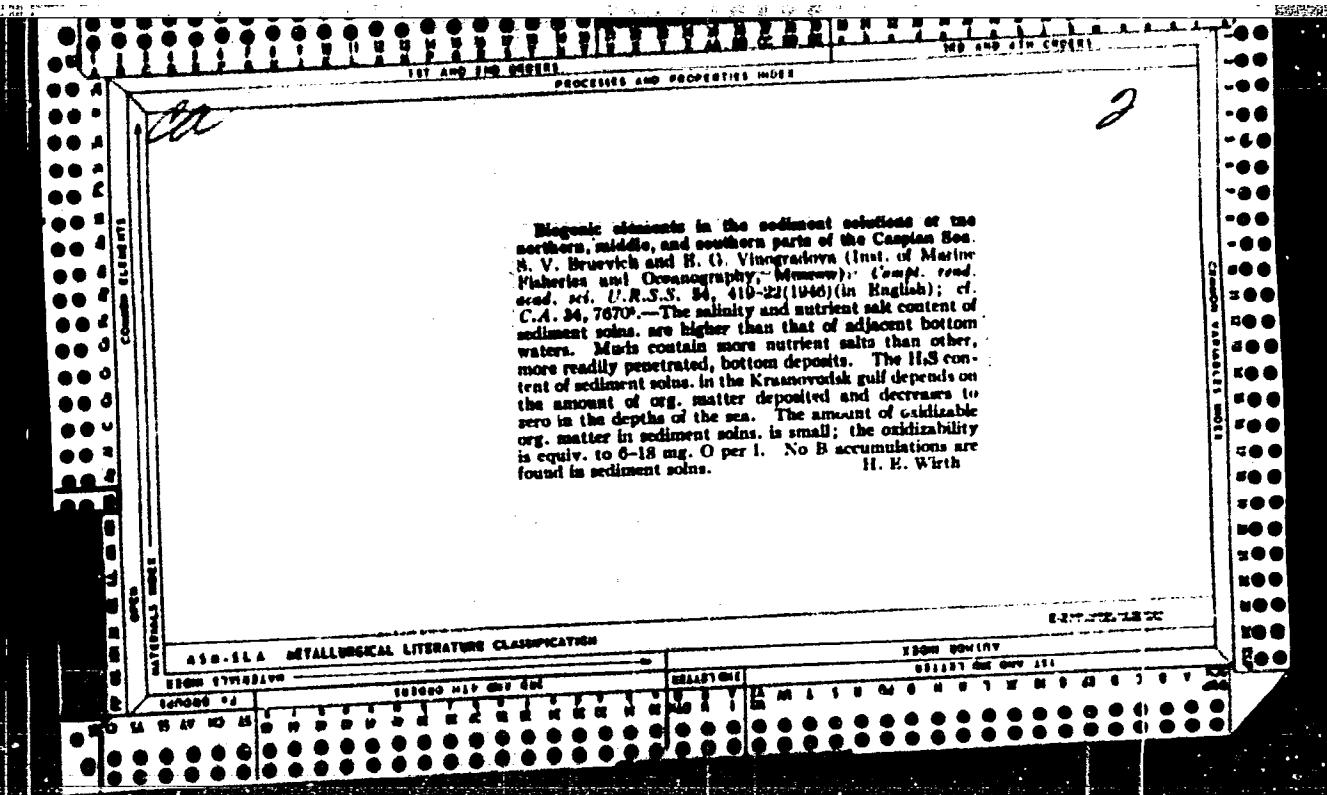
CA

Chemical composition of sediment solutions of the Caspian Sea. I. The northern Caspian (from the data of 1940). S. V. Bruevich and E. O. Vinogradova (Inst. Marine Fisheries and Oceanography, Moscow). *Gidrokhim-Materialy (Hydrochem. Materials)* 13, 120-44 (English summary, 1947).—The sediment soils of the northern Caspian contain a great accumulation of the biogenic elements C, N, P, Si, and F in comparison with those of clay mud and sand. The salinity is higher in true mud than in sandy water. Accumulation is higher in true mud than in sandy mud and sand. The salinity of the buried sediment soils is a measure of salinity of the most saline waters of the given part of the sea in the past. Difference was established between the sediment soils of the bay and those of the open sea. In the open sea there has been observed a decreasing content of CO_2 , P, Si, Fe, org. matter, and especially of NH₄, parallel with the changing mech. compn. of the sediments in the direction of decreasing fine-grained fraction. Several tables give the results of chem. analyses for the biogenic substances. II. The northern, middle, and southern parts of the Caspian Sea (according to materials collected in 1935, 1936, and 1940). *Ibid.* 148-60 (English summary, 1953).—The moisture content of natural bottom deposits is closely connected with the mech. compn. of the deposits. The sp. gr. of the bottom deposits (when dry) approaches 2.5. Carbonate is at its max. in shell sediments, at its min. in the mud. The pH of the sediment soils of the upper layer of bottom deposits tends to decrease from shell rocks to muds. The vertical distribution of moisture in natural bottom deposits permits estn. of the age of a deposit. Many data are included in the report. Gladys S. Macy

1947

1951





VINKA ALEX., No. 6.

21494

BALWICK, A. V.; VINKA ALEX., No. 6.

On neobratnouky v letecky vore (je nepracovne atd.) 01,
zlezen, namenska i tosform v noskite osadka 01.
Trup v letu v Karagand. postr. cijevka. T. 1.0., 1971
c. 197 - 304, u. kart.

in: Letopis' Zhurnal'nykh Statey, No. 29, '69, 1969

1. BRUYEVICH, S. V., VINOGRADOVA, Ye. G.

2. USSR (600)

"Sedimentary Precipitation in the Caspian Sea
(according to Distribution of Carbonates, Iron,
Manganese, and Phosphorus in Sea Sedimentation)."
Trudy vtorogo vsesoyuznogo geograficheskogo
s'ezda, Volume 11, 1948 (207-304)

9. Meteorologiya i Gidrologiya, No. 3, 1949.
Report U-2551. 30 Oct 52.

1. BRUYEVICH, S. V.; VINOGRADOVA, Ye. G.
2. USSR (600)
4. Caspian Sea - Sedimentation and Deposition
7. Deposit formation in the Caspian Sea, Trudy Inst. okean., 3, 1949.
9. Monthly List of Russian Accessions, Library of Congress, February 1953. Unclassified.

FEDOSOV, M.V., kand.khim.nauk; VINOGRADOVA, Ye.G.

Basic hydrochemical features of the Sea of Azov. Trudy VNIIRO 31:
9-34 '55. (MIRA 11:6)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut morskogo rybnogo
khozyaystva i okeanografii.
(Azov, Sea of--Hydrology)

VINOGRADOVA, Ye.G., kand.khim.nauk

Hydrochemical conditions of the Sea of Azov during 1951-1953.
Trudy VNIRO 31:62-79 '55. (MIRA 11:6)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut morskogo rybnogo
khozyaystva i okeanografii.
(Azov, Sea of--Water--Composition)

CN

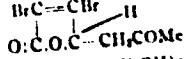
Action of sodium acetylide on cyclic ketones. I. Synthesis of 1-ethynylcyclohexanol. R. Ya. Levine and E. I. Vinogradova. *J. Applied Chem. (U. S. S. R.)* 9, 1290-1302 (1966).—Abs. Et₂O (100 g.) was added with const. stirring and cooling to a soln. of Na (6.6 g.) in liquid NH₃ (120 cc.) in a flask provided with a reflux condenser (closed with a NaOH tube), extg. funnel, stirrer and inlet tube for gases. After the addn. of pure, dry C₂H₂, which was allowed to pass into the above mixt. for 2-3 hrs., and the formation of a white ppt., more abs. Et₂O was introduced. The flask was removed from the cooling bath and the non-reacted NH₃ distd. off at room temp. A soln. of freshly distd. cyclohexanone (25 g.) in abs. Et₂O (50 cc.) was added in small portions to the contents of the flask with const. stirring and cooling in an ice-NaCl bath. After 1 hr. of stirring, the flask was allowed to stay overnight at room temp. Then the reaction mixt. was decompr. with dil. AcOH while cooling with ice. The ether layer was sep'd. and treated in the usual manner. The residue, after the removal of the Et₂O, was distd. *in vacuo*. The product (86.8% of theoretical) b.p. 74-6°, n_D²⁰ 1.4830, d₄²⁰ 0.9800, M. R. = 36.13, i.e., it was pure 1-ethynylcyclohexanol. On dissolving the residue from the vacuum distn. with Et₂O white crystals (2 g.) of dhydroxycyclohexylacetylester, m. 104-5°, sep'd. Addn. of CuH₂ to the Na-NH₃ soln. without Et₂O yielded an unidentified compd. b.p. 72°, n_D²⁰ 1.4985. Heating of 1-ethynylcyclohexanol with solid

(CO₂H)₂ yielded 1-acetylcylohexene-1, b.p. 80°, n_D²⁰ 1.4880, d₄²⁰ 0.9865. Twenty-eight references. A. A. P.

Structure of aldehyde acids and their tautomeric transformations. II. Structure and tautomeric transformations of bromomuck acid. E. A. Vinogradova and M. M. Shevchenko. *J. Russ. Chem. Soc.*, 10, 700-30 (1900); cf. *C.A.*, 30, 1002. — Further confirmation was obtained for hypotheses advanced in part I of this series as to the structure of aldehyde acids. Bromomuck

acid (I) was found to have, in cryst. state, the structure of a 1(10)-lactone; in this solid state it is α,β -dibromo- γ -hydroxy-2,5-dihydro-2-furanone and reacts in this form under conditions which do not favor tautomerization; in the other form, α,β -dibromo- β -formylacrylic acid, it can react only under suitable conditions and in the presence of proper catalysts. I (m. 123-4°) (2.58 g.) in 4 cc. abs. EtOH was mixed at 8° with 1.44 g. sulfanilamide in 55 cc. EtOH to yield $C_6H_5N_2Br_2$, which decomps. 180° and has a free C_6H_5 group. Condensation of I with AcPh in dil. NaOH gave, on standing, a primary product, $PheCH_2CH(CBr)CH_2CO_2Na$, which with acid gave β -phenyl- γ -dibromo-2,5-dihydro-2-furanone, m. 108°. 1 (5.10 g.) and 3 g. MeCO in 350 cc. water, treated with 12 cc. 10% NaOH and allowed to stand 10 hrs. at 5°, gave, on acidification with HCl, a condensate of 2 moles I with $MeCO_2$, ($O=C(O)CH_2CH(CBr)CH_2CO_2$), m. 102-3°.

EtOH); the mother liquor was made alk. with Na_2CO_3 to yield 5-acetoxy- β , β -dibromo-2,5-dihydro-2-



furanone which m. 90-1° (from EtOH); p -nitrophenylhydrazone m. 83-5°. Heating 2 g. I with 5 cc. Me_2CO and 13 cc. Ac_2O 8 hrs. on a steam bath gave 5-acetoxy- β , β -dibromo-2,5-dihydro-2-furanone, m. 64-5° (from EtOH). 5-Methyl- β , β -dibromo-2,5-dihydro-2-furanone was prep. in 50% yield according to Simons, et al. (*Ber.*, 50, 3083 (1915)); this compd. failed to react with $MeMgI$, however, one of its Br atoms was found to be rather reactive and on standing in the cold with PhNHNH₂ in EtOH soln. for 10 days gave the *oxime* der., $C_6H_5N_2Br$, m. 119-21° (from benzene-butanone).

G. M. Kosolapoff

AIA-31A METALLURGICAL LITERATURE CLASSIFICATION

| SEARCHED | INDEXED | FILED |
|----------|---------|-------|----------|---------|-------|----------|---------|-------|----------|---------|-------|----------|---------|-------|
| SEARCHED | INDEXED | FILED |
| SEARCHED | INDEXED | FILED |
| SEARCHED | INDEXED | FILED |
| SEARCHED | INDEXED | FILED |

Mechanism of the reaction of phenylmagnesium bromide with bromomonic acid. I. I. Vinogradova and M. M. Shemyakin. *J. Russ. Chem. (U.S.S.R.)* **10**, 12-9 (1940) (in Russian). PhMgBr (from 3.84 g. Mg and 25.1 g. PhLi) was filtered and treated with ice cooling with 10 g. bromomicic acid in 50 cc. Et₂O; the ppt. was sept., washed with Et₂O, and decompled with ice and dil. H₂SO₄ to yield 0.075 g. *p*-bromostyrene, 1.42 g. *p*-bromo-*m*-cresol, m. p. 60-70° (from EtOH), and 5'-*p*-bromo-*p*-hydroxyphenyl acid (I), m. p. 161-2° (from water). Repetition of the above using a 50% excess Mg without filtration gave 30.5% I, the same result being obtained when the Mg was added to the reaction mixt. just prior to hydrolysis and allowed to dissolve in the acidic hydrolysis soln. Ag and Na salts of I were precip. conventionally. *p*-bromophenyl ester, m. p. 127° (from EtOH). Heating I with 1:4 H₂SO₄ 2 hrs. on a steam bath gave the lactone, m. p. 151-3° (from EtOH), while boiling with 20% NaOH converts I into PhCOCH₂PhCH₂CO₂Ph, m. p. 162° (from EtOH). (*p*-bromophenyl ester, m. p. 108-10°, the use of 40% NaOH (10 hrs.) gave BzOH and hydroquinone and oil. The Grignard reaction appears to consist of the following stages: PhMgBr forms a salt of bromomicic acid, a 2nd PhMgBr mol. reacts with the CHO group of the latter, a 3rd PhMgBr mol. adds to the double bond, then 2 mols. PhMgBr remove the 2 Br atoms. G. M. Kosolapoff

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001860010010-4"

VINOGRADOVА, YE. I.

USSR/Chemistry - 1,4-Naphthoquinone
Chemistry - Hydrazine

Jan 1948

"Research in the Field of Compounds of Quinoid Structure: II, Reaction of Some Sisulfite Derivatives of P-Naphthoquinone With Substituted Hydrazines," D. A. Bochvar, Ye. I. Vinogradova, Yu. B. Shvetsov, M. M. Shemyakin, Lab of Org Chem, Inst of Biol and Med Chem, Acad Med Sci USSR, and Chair of Anal Chem, Moscow Textile Inst, 11 pp

"Zhur Obshch Khim" Vol XVIII (LXXX), No 1

Study the interrelationship of various types of pnaphthoquinone derivative bisulfites containing replaceable hydrazines, and observe the properties of the hydrazines formed. Show fallacies contained in formulas suggested by Palladin for bisulfite produced 2-methyl-1,4-naphthoquinone and by Ufintsev for bisulfite produced 2-methyl-1,4-naphthoquinone-3-sulfonate

Submitted 14 Jan 1947

PA 64T39

VINOGRADOVA, YE. I.

62/49T8

USSR/Chemistry - Cyclic Compounds Mar 49

"Oxidation and Oxidation-Hydrolysis Conversions of Organic Molecules: IX, Study of Conversion of o-(Alpha-Chloropropionyl) Acids Into Carbocyclic Compounds," Ye. I. Vinogradova, Yu. B. Shvetsov, M. M. Shemyakin, Lab of Org Chem, Inst of Biol and Med Chem, Acad Med Sci USSR, 10 pp

"Zhur Obshch Khim" Vol XIX, No 3 p.107

Made a study of conditions and mechanism of the preparation of 5-and 6-member carbocyclic compounds from o-(alpha-chloropropionyl)-phenyl-glyoxylic acid. Submitted 2 Nov 47.

62/49T8

VINOGRADOVA, Ye. I.

PA 65/49T38

USSR/Chemistry - Phthiocol
Ether

Apr 49

"Characteristics of Phthiocol," Ye. I. Vinogradova,
Lab of Org Chem, Inst of Biol and Med Chem, Acad
Med Sci USSR, 3 $\frac{1}{2}$ pp

"Zhur Obshch Khim" Vol XIX, No 4 - pp. 771-4

Describes the preparation of several derivatives
of phthiocol: semicarbazone of phthiocol and its
mono-sodium salt, and also n-nitrobenzyl ether
of the semicarbazone of phthiocol. Submitted
2 Nov 47.

65/49T38

VINOGRADOVA, Ye. I.

191T47

USSR/Chemistry - Biological

Sep 51

"Oxidation and Oxidative-Hydrolytic Conversion of Organic Molecules. XVIII. Synthesis and Properties of Certain Quinone Oxides," L. A. Shchukina, Ye. I. Vinogradova, M. M. Shemyakin, Lab Org Chem, Inst Biol and Med Chem, Acad Med Sci USSR

"Zhur Obshch Khim" Vol XXI, No 9, pp 1661-1667

Synthesized several oxides of 1,4-benzoquinones and 1,4-naphthoquinones; studied certain of their properties: namely, their oxidizing ability and the capacity for being converted into esters of the corresponding glycols.

191T47

VINOGRADOVA, YE. I.

USSR /Chemistry - Antibiotics

1 Aug 51

"Synthesis and Properties of Alpha-Dichloro-acetylamino-beta-Hydroxy-p-Nitropropiophenone (I)," E. M. Badmas, Ye. I. Vinogradova, D. N. Vitkovskiy, A. S. Khokhlov, Yu. B. Shvetsov, L. A. Shchukina, Inst of Biol and Med Chem, Acad Med Sci USSR

"Dok Ak Nauk SSSR" Vol LXXIX, No 4, pp 601-603

It was shown recently, that I is an intermediate product of the enzymatic splitting of chloromycetin

211152Z

by bacteria (G. S. Smith, C. S. Worrel, Arch Biochem, Vol XXVIII, 1, 232, 1950). In the present work, I was synthesized. Gives a description of the synthesis.

211152Z

VINOGRADOV, YE. I.

USSR/Chemistry - Antibiotics

21 Sep 52

"Ways of Synthesizing Optically Active Analogs of D-threo-1-(p-nitrophenyl)-2-dichloracetylamino-1, 3-propanediol," M. M. Semyakin, E.M. Bamdas, Ye. I. Vinoigradova, M.G. Karapetyan, N. W. Kolosov, A.S. Khokhlov, Yu. B. Shvetsov and L.A. Shchukina, Lab of Org Chem, Inst of Biol and Med Chem, Acad Med Sci USSR

DAN SSSR, Vol 86, No 3, pp 565-568

Of the four stereoisomers of 1-(p-nitrophenyl)-2-dichloracetylamino-1,3-propanediol, only one (the d-threo-isomer) is antibacterially active (chloromycetin, chloramphenicol, levomycetin). To learn the relationship between the structure of these compds and antibacterial activity, more analogs of these compds must be synthesized. Two ways of synthesis have been worked out at present. D- or L-threo-1-(p-nitrophenyl)-2-amino-1,3-propanediol (I) is converted into the N-benzoyl derivative (II) which is reduced to the corresponding amino compd (III). This is diazo group is then substituted in several different ways to form an optically active compd (V). The benzoyl group is then removed from (V) to form the aminodiol (VI) which is dichloracetylated into compound (VI.I). The other synthesis also starts with (I) which is reduced to the diamino diazotized into (X). (X) is converted into (VII) in the same way as (IV) was into (V). Reaction schemes are shown in the original paper.⁷ Presented by Acad V. M. Rodionov 14
Jul 52
PA 247P11

SHEMYAKIN, M.M.; BAMDAS, E.M.; VINOGRADOVA, Ye.I.; KARAPETYAN, M.G.; KOLOSOV, M.N.;
KHOKHLOV, A.S.; SHVETSOV, Yu.B.; SHCHUKINA, L.A.

Research on the chemistry of chloromycetin (levomycetin). Part 2. Study of
the course of synthesis and the synthesis of optically-active analogs of
chloromycetin (levomycetin). Zhur. ob. khim. 23 no.11:1854-1867 N '53.

(MLRA 6:11)

1. Institut biologicheskoy i meditsinskoy khimii Akademii meditsinskikh nauk
SSSR.
(Chloromycetin)

SHEMYAKIN, M.M.; BANDAS, E.M.; VINOGRADOVA, Ye.I.; GUBERNIYEV, M.A.;
OREKHOVICH, V.N.; KHOKHLOV, A.S.; SHVETSOV, Yu.B.; SHCHUKINA, L.A.

Research in the chemistry of chloromycetin (levomycetin). Racemization of *L*-threo-1-(α -nitrophenyl)-2-dichloroacetyl amino-1,3-propanediol. Dokl.AN SSSR 94 no.2:257-259 Ja '54. (MLRA 7:1)

1. Chlen korrespondent Akademii nauk SSSR (for Shemyakin).
2. Deystvitel'nyy chlen AMN SSSR (for Orekhovich). 3. Institut biologicheskoy i meditsinskoy khimii Akademii meditsinskikh nauk SSSR. (Racemization) (Propanediol)

SHEMYAKIN,M.M.; KOLOSOV,M.N.; KARAPETYAN,M.G.; BANDAS,E.M.; SHEVTSOV,
Yu.B.; VINOGRADOVA,Ye.I.; SHCHUKINA,L.A.

Investigation of the chemistry of chloramphenicol (levomycetin).
Synthesis of new optically active analogs of chloramphenicol
(levomycetin). Zhur.ob.khim.25 no.6:1199-1206 Je'55. (MLRA 8:12)

1. Institut biologicheskoy i meditsinskoy khimii Akademii meditsinskikh nauk SSSR.

(Chloramphenicol)

ACC NR: AP7003653

SOURCE CODE: UR/0079/66/036/008/1391/1405

AUTHOR: Shemyakin, M. M.; Vinogradova, Ye. I.; Feygina, M. Yu.; Aldanova, N. A.; Shvetsov, Yu. B.; Fonina, L. A.

ORG: Institute of the Chemistry of Natural Compounds, AN SSSR (Institut khimii prirodnnykh soyedineniy AN SSSR)

TITLE: Synthesis and antibacterial activity of valinomycin analogs

SOURCE: Zhurnal obshchey khimii v. 36, no. 8, 1966, 1391-1405

TOPIC TAGS: bactericide, organic synthetic process

ABSTRACT: In a study of the relationship between the structure and biological effects of depsipeptides related to valinomycin, the authors synthesized a series of its linear and cyclic analogs, differing in chain length or size of ring, as well as in the nature and configuration of the hydroxy and amino acid residues. The optically active linear depsipeptides were synthesized by a method developed earlier by the authors for the total synthesis of valinomycin, consisting of gradual construction of the depsipeptide chain by the creation first of esters, then of amide bonds. The activity of the depsipeptides was found to depend upon the presence and size of the ring, as well as on the nature and configuration of the amino and hydroxy acid residues. All of the investigated cyclotetra- and cyclooctadepsipeptides had no activity at all, whereas many cyclododecadepsipeptides possessed substantial activity; the activity again disappeared for

Cord 1/2 UDC: 547.982.466

0926 0273

L 11397-67

ACC NR: AP7003653

cyclohexadecadepsipeptides. The structure of the radicals and configuration of the amino acid residues in the valinomycin molecule could be varied substantially (on a limited portion of the chain) without any significant loss of activity. However, a change in the structure of the radical or configuration of the hydroxy acid residues usually led to an almost total destruction of the antimicrobial activity. It was concluded that the antibiotic activity of depsipeptides is evidently associated with their interaction with the lipoproteins of the cell membranes, expressed in the ability of these compounds to selectively induce active transport of potassium ions (but not of sodium ions) into animal mitochondria. Orig. art. has: 1 figure and 14 tables. [JPRS: 38,970]

SUB CODE: 06,07 / SUBM DATE: 12Jul65

Card 2/2 jb

BOCHKAREV, V.N.; FUCHKOV, V.A.; YUL'FSON, N.S.; SHEMYAKIN, M.M.; CHCHINNIKOV,
Yu.A.; KIRYUSHKIN, A.A.; IVANOV, V.T.; VINOGRADOVA, Ye.I.; ALDANOV, N.A.

Depsipeptides. Part 51: Mass spectrometric study of cyclotetradepsipeptides
of regular structure. Khim.prirod.sosed. 1:52-58 '85.
(MIRA 18:6)

1. Institut khimi prirodnikh soyedineniy AN SSSR.

SHEMYAKIN, M.M., akademik; VINOGRADOVA, Ye.I.; FEYGINA, M.Yu.; ALDANOVA,
N.A.; OLADKINA, V.A.; SHCHUKINA, L.A.

Synthesis of optically active depsipeptides. Dokl. AN SSSR 140
no.2:387-390 S '61. (MIRA 14:9)

1. Institut khimii prirodnnykh soyedineniy AN SSSR.
(Peptides)

RYABOVA, I. D.; PAVLENKO, I. A.; VINOGRADOVA, Ye. I.; OVCHINNIKOV, Yu. A.; ALDANOVA, N.A.;
KIRYUSHKIN, A. A.; IVANOV, V. T.; FEYGINA, M. Yu.

"Antimicrobial activity of depsipeptides."

report submitted for Antibiotics Cong, Prague, 15-19 Jun 64.

Inst for Chemistry of Natural Compounds, AS USSR, Moscow.

SHEMYAKIN, M. M.; VINOGRADOVA, Ye. I.; FEYGINA, M. Yu.; ALDANOVA, N. A.;
OVCHINNIKOV, Yu. A.; KIRYUSHKIN, A. A.

Depsipeptides. Part 16: Paths in the synthesis of optically
active linear depsipeptides. Zhur. ob. Khim. 34 no.6:1782-
1797 Je '64. (MIRA 17:7)
1. Institut khimii prirodnykh soyedineniy AN SSSR.

AL'BREKHT, Vladimir Georgiyevich, doktor tekhn.nauk, prof.; SMIRNOV,
Aleksey Ionovich, kand.tekhn.nauk; PETROVA, Vera Nikolayevna,
inzh. Prinimali uchastiye: VINOGRADOVA, Ye.I., inzh.;
SKVORTSOV, O.S., inzh.; CHUPRIKOV, S.A., inzh. BYKHOVSKAYA,
S.N., red.izd-va; MAKSIMOVA, V.V., tekhn.red.

[Selecting the types of superstructure for railroad tracks
in open pit mines] Vybor tipov verkhnego stroenija zhelezno-
dorozhnykh putei v kar'erasakh. By V.G.Al'brekht, A.I.Smirnov,
V.N.Petrova. Pod obshchei red. A.I.Smirnova. Moskva, Gos-
gortekhizdat, 1962. 198 p. (MIRA 15:5)
(Mine railroads)

SMIRNOV, A.I., kand.tekhn.nauk. Prinimali uchastiye: PETROVA, V.N., inzh.; ANASHKINA, L.M., inzh.; VINOGRADOVA, Ye.I., inzh.; ZAN'KO, V.I., tekhnik. GOLOVANOV, A.L., inzh., red.; BOBROVA, Ye.N., tekhn.red.

[Selection of outside transportation for industrial enterprises]
Vybor vneshnego transporta promyshlennyykh predpriatii. Moskva,
Gos.transp.zhel-dor.izd-vo, 1959. 135 p. (Trudy Vsesoiuznogo
nauchno-issledovatel'skogo instituta zheleznodorozhnogo transporta)
(MIRA 12:5)

(Railroads, Narrow-gauge)
(Transportation, Automotive)

SHEMYAKIN, M.M.; SHCHUKINA, L.A.; VINOGRADOVA, Ye.I.; KOLOSOV, M.N.; VDOVINA, R.G.; KARAFETYAN, M.G.; RODIONOV, V.Ya.; RAVDML', G.A.; SHVETSOV, Yu.B., BANDAS, E.M.; CHAMAN, Ye.S.; YERMOLAYEV, K.M.; SEMKIN, Ye.P.

Research data on sarkomycin and its analogues. Part 1: Synthesis of dihydrosarkomycin and its antipode. Zhur. ob. khim. 27 no.3:742-748 Mr '57. (MLR 10:6)

1. Institut biologicheskoy i meditsinskoy khimii Akademii meditsinskikh nauk SSSR.
(Sarkomycin)

VINOGRADOVA, YE. I.

SHEMYAKIN, M.M.; RABINOVICH, G.A.; CHAMAN, Ye.S.; SHVETSOV, Yu.B.; VINOGRADOVA,
Ye.I.

Synthesis of racemic sarkomycin. Izv. AN SSSR. Otd. khim. nauk
(MIHA 11:2)
no. 8:1007 Ag '57.

1. Institut biologicheskoy i meditsinskoy khimii Akademii meditsinskikh nauk SSSR.
(Sarkomycin)

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001860010010-4

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001860010010-4"

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001860010010-4

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001860010010-4"

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001860010010-4

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001860010010-4"

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001860010010-4

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001860010010-4"

VINCGRADCVA YE. I.

IA 170T2

USSR/Biology - Wheat
Vernalization

May/Jun 50

"Length of Time Required for Vernalization of Winter
Wheat in Relation to Period When Seed is Harvested,"
S. I. Koryukayev, Ye. I. Vinogradova, Leningrad
State Sel Sta

"Agrobiol" No 3, pp 67-69

Experiments on DS 2444-2, Dyurabl', and Borovich-
skaya, varieties of winter wheat. Seed harvested
before full maturity requires shorter period for
vernalization; when planted without being vernalized
first produces more earring plants than completely
mature seed under same conditions. Two tables.

170T2

AL'TMARK, A.M.; VINOGRADOVA, Ye.I.; POCHINKO, R.Ye.

Prolonged sleep therapy of psychiatric cases. Zhur.nevr.i psikh.
54 no.1:17-21 Ja '54. (MLRA 7:1)

1. Gor'kovskaya psikhoneurologicheskaya bol'nitsa Ministerstva
zdravookhraneniya RSFSR. (Sleep) (Psychoses) (Neuroses)

SHUV, Izrailev Isaakovich; VINOGRADOVA, Ye. K., nauchnyy redaktor; MIKAYEVA,
T.M., redaktor; DMITRIYEVA, N.I., tekhnicheskiy redaktor

[General technology of footgear; a summary] Obshchaisia tekhnologija
obuvi; konsept. Moskva, Gos.sauchno-tekhn.izd-vo M-va legkoi
promyshl. SSSR, 1957. 129 p. (MLR 10:10)
(Shoe industry)

ASHRATOVA, Sofiya Kemalevna; VINOGRADOVA, Ye.K., retsenzent; GRACHEVA,
A.V., red.; KNAKHLIN, M.T., tekhn.red.

[Finishing the edges of shoe uppers] Otdelka kraev detalei
verkha obuvi. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po legkoi
promyshl.. 1959. 183 p.
(Shoe manufacture) (MIRA 13:5)

VINOGRADOVA Ye. K

OKHOTIN, M.V., professor, doktor khimicheskikh nauk; LEVINA, R.S.; VINOGRADOVA,
Ye.K.

Studying the process of crystallization of silica glass by means of
annealing. Stek.i ker. 11 no.6:8-11 Je '54. (MLRA 7:6)
(Glass manufacture--Chemistry)

VINOGRADSKAYA, Ye. L.

"Higher Accuracy in Diagram Construction of Isothermal Disintegration
of Austenite" Tr. In-ta Fiziki AN Latv. SSR, No 5, 1953, 35-54

A simple magnetometric equipment is described for studying the dis-integration process of austenite and allowing one to plot the initial and terminal curves of disinte gration with 2 to 3% accuracy. Two zones of high sta-bility of austenite were found at about 450 and 600°, and two zones of low stability at about 400 and 500°. The type of disintegration curves did not depend on frequency. (RZhFiz, No 11, 1955)

VINOGRADOVA, YE.M.

137-58-5-11174

Translation from: Referativnyy zhurnal, Metallurgiya. 1958, Nr 5, p 325 (USSR)

AUTHORS: Vinogradova, Ye.N., Ivanova, V.A.

TITLE: Diethyldithiophosphate Acid Employed in the Removal of Copper, Cadmium, Lead, and Bismuth from Zinc, as Well as in the Process of Polarographic Determination of Germanium in Presence of Arsenic (Применение диэтилдитиофосfatной кислоты для отделения примесей меди, кадмия, свинца и висмута в цинке и при поларографическом определении германия в присутствии мышьяка)

PERIODICAL: Vestn. Mosk. un-ta. Ser. matem., mekhan., astron., fiz., khimii, 1957, Nr 3, pp 237-245

ABSTRACT: The process of separation of Cu, Cd, Pb, and Bi impurities from Zn is based on the fact that diethyldithiophosphate acid, $(C_2H_5O)_2PSSH$ (I), causes these elements to form precipitates which are poorly soluble in water, but readily soluble in non-polar solvents. Cu, Cd, and Pb precipitates are formed in acidic, as well as in neutral and alkaline solutions and are withdrawn with ether, the acidity of the medium remaining the same. Bi forms a complex compound which is insoluble in water and

Card 1/3

137-58-5-11174

Diethyldithiophosphate Acid Employed (cont.)

which passes into the ether layer only in acidic media with a pH no greater than 3.2. Salts of Fe and Zn do not precipitate out under these conditions, and ions of these elements do not appear in the ether extract. In the course of analysis, a 50-cc portion of a 10% Zn solution, containing 0.002% each of Cu, Pb, Cd, Bi, and Fe, is diluted with 50 cc of 2-N HCl. 50 cc of the mixture obtained are treated with 25 cc of 0.058-N I and are then twice extracted with ether. The ether contained in the extract is driven off; after treating the residue with 1 cc of HNO₃ and evaporating it almost to dryness, HCl is added and the evaporation procedure is repeated. After dissolving the residue in a mixture of 3-5 drops of concentrated HCl and 5 cc of water, the solution is placed into a 25-cc flask to which 10 cc of a 44% sodium tartrate solution are added together with 1 cc of CH₃COOH (1:2) and 10 drops of a 0.2% solution of methyl red; the level is raised to a predetermined mark by means of adding water, O₂ is removed by a stream of H₂, and the Cu, Cd, Pb, and Bi are polarographed. The process of determination is accomplished by the method of increments, the error being equal to 1.6-4.9%. It is established that in the presence of Ge As can be completely precipitated by the action of I. I is added to a solution in which the Ge-As ratio is 1/500 and the concentration is 3 N in terms of HCl, in an amount which is approximately three times greater than the As content. After filtering out the As precipitate and washing it in Card 2/3

Diethyldithiophosphate Acid Employed (cont.)

137-58-5-11174

5 cc of I, the filtrate is neutralized with a base in the presence of phenolphthalein, and the volume is brought to 50 cc by a 0.05-M KCl solution in a borate buffer (pH 8.37). Under these conditions a well defined polarographic step is obtained for the Ge ($E_{1/2}=1.4$ v), while the magnitude of the current remains a linear function of the concentration. No concurrent precipitation of Ge and As was observed.

1. Zinc--Purification 2. Metals--Reduction N.G.
4. Arsenic--Applications 3. Germanium--Determination

Card 3/3

MIKHAYLOV, V.D., otv. red.; ROZENTAL', I.L., otv. red.; PCHELINTSEVA, G.M., red.; VINOGRADOVA, Ye.M., red.; VLASOVA, N.A., tekhn. red.

[Some problems in the physics of elementary particles and of the atomic nucleus] Nekotorye voprosy fiziki elementarnykh chastits i atomnogo iadra. Otvet. red. V.D. Mikhaylov i I.L. Rozental'. Moskva, Gosatomizdat, 1962. 134 p.
(MIRA 15:7)

1. Moscow. Inzhenerno-fizicheskiy institut.
(Particles (Nuclear physics)) (Nuclei, Atomic)

Kharlamov, A. P., N. V. Gerasimov, Yu. N.

Effect of some factors on the photo-polymerization process
in the method of emulsion polarography with exchange. Zhur. khim.
khim. 23 no. 1031964, 10-18 (1965).
(MIRA 1965)

L. M. V. Lomonosov Moscow State University.

L 11688-66 EWT(m)/T/EWP(t)/EWP(b) IJP(c) JD
ACC NR: AP6005879 (A) SOURCE CODE: UR/0075/65/020/010/1064/1068

AUTHOR: Kamenev, A. I.; Vinogradova, Ye. N.

ORG: Moscow State University im. M. V. Lomonosov (Moskovskiy gosudarstvennyy universitet)

TITLE: Effect of certain factors on anodic peaks of copper and lead in the method of amalgam polarography with accumulation 27 27

SOURCE: Zhurnal analiticheskoy khimii, v. 20, no. 10, 1965, 1064-1068

TOPIC TAGS: polarographic analysis, copper, lead, surface active agent, electrolyte, electrode, mercury alloy, silver, gold, platinum

ABSTRACT: The behavior of trace quantities of lead and copper was studied on stationary mercury electrodes with gold, silver, and platinum contacts. Experimental data showed that in the combined determination of both metals, the best results are obtained with a silver contact. Another important advantage of this contact is that it is less likely to form intermetallic compounds with elements such as cadmium, gallium, zinc, etc. Use of a mercury electrode with a silver contact made it possible to increase the sensitivity of the determination of lead and copper con-

Card 1/2

L 14688-66

ACC NR: AP6005879

siderably. It was found that surface-active agents affect the determination of lead, but have almost no effect on that of copper; a method is proposed for preparing a supporting electrolyte which permits one to obtain reproducible results. The dependence of the peak height of lead on the temperature, accumulation time, and potential of preelectrolysis during the preparation of the background electrolyte solution was determined. It is shown that lead in amounts on the order of $1.6 \cdot 10^{-6}$ g and copper in amounts of about $1.4 \cdot 10^{-5}$ g (coefficient of variation 27 and 7% respectively) can be determined in high-purity NaCl in a background electrolyte consisting of 0.2 M HCl + xM NaCl. Orig. art. has: 2 figures, 7 tables.

SUB CODE: 07/

SUBM DATE: 15Jun64/

ORIG REF: 007/

OTH REF: 002

EVK
Card 2/2

L-5001-36 KMT(a)/LNP(t) LIP(g) JY
ACC NR: AP6009436

UR/0075/66/021/003/0320/0322

AUTHOR: Kamenev, A.I.; Vinogradova, Ye.N.

ORG: Moscow State University im. M.V. Lomonosov (Moskovskiy gosudarstvennyy universitet)

TITLE: Reproducibility of determination of bismuth on a film-type electrode in the method of amalgam polarography with accumulation

SOURCE: Zhurnal analiticheskoy khimii, v.21, no.3, 1966, 320-322

TOPIC TAGS: quantitative analysis, bismuth, polarographic analysis, electrode

ABSTRACT: For the determination of a number of micro-impurities by the method of amalgam polarography, there has previously been proposed the use of a mercury film-type electrode with accumulation which permits increasing the sensitivity of the method by one to two times. The present article reports a study of several factors on the height of the anode peak and on the reproducibility of determination of bismuth on a film-type electrode. The studies were made on a PA-2 polarograph (sensitivity $3.6 \times 10^{-9} \text{ a/mm}$, rate of potential 5 mv/sec). A saturated calomel electrode was used as a comparison electrode. Each bismuth determination was made at least three times against a background of 0.2 molar HCl. The solution was agitated by a magnetic agitator and a stream of purified nitrogen.

Card 1/2

L 22529-66

ACC NR: AP6009436

The stilling time of the solution was 2 minutes. The quartz cell with a capacity of 20 ml was placed in a box made of organic glass and was thermostatted ($15 \pm 0.2^\circ$). The film-type mercury electrode was a silver wire 0.5 mm in diameter and 6 mm long. The wire was amalgamed electrolytically in a saturated solution of $Hg_2(NO_3)_2$ for 2 minutes at a current strength of 1 ma (the thickness of the film was about 2 microns). After deposition of the mercury film, the electrode was carefully washed in triple distilled water, put into the solution under investigation, and accumulation was carried out for the required time. The working solutions, 5×10^{-5} mole/liter solutions in 1.2 molar HCl. The initial 5×10^{-3} mole/liter bismuth solution was obtained by dissolving high purity metallic bismuth. A table shows the height of the anode peak for bismuth as a function of the accumulation potential and a second table shows the effect of the accumulation time on the height of the anode peak for bismuth. Results showed that the error in determination of bismuth concentrations of the order of 10^{-10} mole/liter by this method did not exceed 25%. Orig. art. has: 2 figures and 3 tables.

SUB CODE: 07/ SUBM DATE: 06May65/ ORIG REF: 010

Card 2/2 BLG

VASIL'YEVA, L. N.; VINOGRADOVA, Ye. N.

Dependence of the concentration of metal in the mercury drop
on the time of enrichment with account of solution depletion.
Zav. lab. 28 no.12:1428-1429 '62. (MIRA 16:1)

1. Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova.

(Metals--Analysis) (Polarography)
(Electrodes, Dropping mercury)

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001860010010-4

SOURCE: AN SSNP. This statement was made by a member of the People's Democratic Party
Kontsantinidis, during a speech at the 1st Congress of the People's Democratic Party.

Source: AN SSNP. This statement was made by a member of the People's Democratic Party.

Source: AN SSNP. This statement was made by a member of the People's Democratic Party.

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001860010010-4"

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001860010010-4

ACCESSION NR. A7001267*

there is a small amount of tin in the tin-lead-manganese, the bismuth content

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001860010010-4"

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001860010010-4

VINOGRADLOVA, Ye.N.; KAMENEV, A.I.

Determination of microimpurities in SiO₂ and trichlorosilane by the
method of amalgam polarography with storage. Trudy Kom. anal. khim.
15:175-178 '65. (MIRA 18:7)

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001860010010-4"

KANEVSKY, A. T. & L. K. KARPOVA, V. S.

Effect of the concentration of bismuth on the annealing peaks
in bismuth and antimony. Vest. Mosk. un. Ser. 2: Khim. 20 no. 3: 76-77
My.-Jo '65. (ИИРА 18:8)

S. Karpova zadani taskoy Fizicheskogo Moskovskogo universiteta.

L 3579-66 EWT(m)/T/EWP(t)/EWP(b) IJP(c) JD
ACCESSION NR: AP5024810

UR/0032/65/031/010/1180/1182

546.48 : 543.253

39

AUTHOR: Vinogradova, Ye. N.; Kamenev, A. I.; Lisenkova, N. V.

36

TITLE: Determination of cadmium in salts by the oscillographic cumulative amalgam polarography method

SOURCE: Zavodskaya laboratoriya, v. 31, no. 10, 1965, 1180-1182

TOPIC TAGS: polarographic analysis, electronic measurement, electrochemical analysis

ABSTRACT: The oscillographic version of the cumulative amalgam polarography method is used for determining $n \cdot 10^{-6}$ % Cd impurity in KCl, K_2SO_4 , KNO_3 , KI, KCNS, NaCl, NH_4Cl , and $K_2C_2O_4 \cdot H_2O$. A model TsLA-02 oscillographic polarograph was used with a suspended mercury electrode and a silver contact. The standard was a saturated calomel electrode. A magnetic mixer and nitrogen agitation were used. Accumulation was a function of the concentration of cadmium in the solution in 5 to 30 minutes at a potential of -1.0 volt with respect to the saturated calomel electrode. A fresh mercury drop was used for each determination, with three trials for each measurement. Capacitive current effects were eliminated by proper selection of the

Card 1/2

L-3579-²

ACCESSION NR: AP5024810

3

potential delivery rate. A linear relationship was found between the height of the anode peak and cadmium concentration from $1.0 \cdot 10^{-9}$ to $5.0 \cdot 10^{-8}$ g-ions/l, with a base electrolyte of 0.1-m. KCl. A similar relationship was observed between the height of the cadmium peak and accumulation time for polarographic analysis of $5.0 \cdot 10^{-9}$ m/l of Cd and accumulation time from 10 to 30 minutes. The experimental data are tabulated. Orig. art. has: 2 tables.

44 SS

ASSOCIATION: Moskovskiy gosudarstvennyy universitet (Moscow State University)

SUBMITTED: 00

ENCL: 00

SUB CODE: IC, OP

NO REF Sov: 005

OTHER: 001

Card B/2

VINOGRADOVA, Ye.N.; GALLAY, Z.A.; FINOGENOVA, Z.M.; ALIMARIN,
I.P., prof., otv. red.; KOROBTSOVA, N.A., red.; CHISTYAKOVA,
K.S., tekhn. red.

[Methods of polarographic and amperometric analysis] Metody
poliarograficheskogo i amperometricheskogo analiza. Moskva,
Izd-vo Mosk. univ., 1963. 298 p. (MIRA 16:12)

1. Chlen-korrespondent AN SSSR (for Alimarin).
(Polarography) (Conductometric analysis)

VINOGRADOVA, Ye.N., IOBST, K.

Removal of ultraminute quantities of heavy metal impurities
from solutions of neutral salts to be used as polarographic
background. Zav.lab. 26 no.7:796-797 '60. (MIRA 13:?)

1. Moskovskiy gosudarstvennyy universitet im. M.V. Lomonosova.
(Polarography) (Metals) (Salts)

VINOGRADOVA, Yevgeniya Nikolayevna; MARTINOV, Mikhail Stepanovich;
OHLOV, Viktor Grigor'yevich; POTAPOV, Vladimir Pavlovich;
BOROVAY, N.Ye., red.; KHITROVA, N.A., tekhn.red.

[Experience in the transportation of farm produce] Opyt perevozok
sel'skokhoziaistvennykh gruzov. Moskva, Vses.izdatel'sko-poligr.
ob"edinenie M-va putei soobshcheniya, 1960. 55 p.

(MIRA 13:10)

(Farm produce--Transportation)

VINOGRADOVA, Yevgeniya Nikolayevna; KONDRASHKOVA, S.F., redaktor; LOMILINA,
L.N., tekhnicheskiy redaktor

[Methods for determining the concentration of hydrogen-ions] Metody
opredeleniya kontsentratsii vodorodnykh ionov. Izd. 2-e, ispr. i
dop. [Moskva] Izd-vo Mosk. univ. 1956. 154 p. (MLRA 10:4)
(Hydrogen-ion concentration)

VASIL'YEVA, L.N.; VINOGRADOVA, Ye.N.

Determination of ultrasmall amounts of gallium, zinc, and cadmium in aluminum of high purity by the method of anodic voltamperometry on a stationary mercury electrode. Zhur.znal.khim. (MIRA 16:6) 18 no.4:454-459 Ap '63.

1. Moskovskiy gosudarstvennyy universitet imeni M.V.Lomonosova.
(Metals—Analysis) (Voltammetry)

VINOGRADOVA, Ye.N.; VASIL'YEVA, L.N.

Determination of ultrasmall amounts of tin, bismuth, and antimony
in high purity aluminum by the method of anodic volt-ampere
measurement on a stationary mercury electrode. Zhur.anal.khim.
17 no.5:579-584 Ag '62. (MIRA 16:3)

1. Gosudarstvennyy nauchno-issledovatel'skiy institut tsvetnykh
metallov, Moskva.
(Aluminum--Analysis) (Metals--Analysis)
(Electrochemical analysis)

L 28712-65 RWT(m)/RKG(m)/T/RDF(t)/(RDF(t)) LSP(c) RWH/JD

ACCESSION NR: AT5004073 S/3127 '63/000/05-/0062/0067

AUTHOR: Vinogradova, Ye. N.; Ignat'yev, Yu. N.; Vasil'yeva, I. N.

TITLE: Determination of trace amounts of cadmium

ISSUE BY: USSR Gosudarstvennyy Komitet po khimii Metody analiza khimicheskikh

1963 No. 4

ABSTRACT: The authors continued their investigation of a polarographic determination

Card No. 4

L 28712-65

ACCESSION NR: AT5004073

this electrode, the authors recorded the height of the cadmium peak versus the cadmium

ASSOCIATION: MGU

SUBMITTER: SeMaye2

PNT: SA

SUB CODE: IC