

USSR/Medicine - Physiology

SAVCHUK, V. I.

FD-2713

Card 1/1 Pub. 33-22/28

Author : Golubykh, L. I.; Savchuk, V. I.

Title : An electric drop meter for recording conditioned salivatory re-
flexes

Periodical : Fiziol. zhur. 41, 116-118, Jan-Feb 1955

Abstract : Describes an electric drop meter, developed by the authors, for
recording salivation. The battery-operated device consists of a
glass funnel and a hemispherical screen mounted on a ring of
plexiglass and covered with a protective case. Photographs;
wiring diagram.

Institution : Laboratory of Physiology and Pathology of Higher Nervous Activity
of the State Scientific-Research Institute of Psychiatry, Ministry
of Health, RSFSR.

Submitted : June 14, 1954

SAVCHUK, V. I.

The action of aminazine on the higher nervous activity of the dog. S. D. Kaminski and V. I. Savchuk (State Sci. Research Inst. Psychiatry, Moscow). *Zhur. Nevropatol. i Psikhiiatrii im. Korsakova* 56, 104-15 (1953). — A total of 1800 expts. were performed on 10 dogs using the conditioned reflex method (motor-digestive secretory and defense reflexes testings). The reflex patterns of the dogs were detd. prior to the administration of the aminazine. The drug was administered intramuscularly twice at the rate of 1, 2, 3, 4, 5, 6, and 7 mg./kg. Reflexes were tested 0.5, 1, 2, and 3 hrs. after the administration of the drug. The fact that essentially similar results were obtained with a variety of conditioned reflex test procedures verifies the assumption that aminazine affects the conditioned reflex function of the nervous system as follows: there occurs a lowering of the stimulability of the cortical and subcortical regions of the central nervous system in proportion to the dose of aminazine administered and also depending on the type of the basic nervous pattern of the animal. The lowering of the cortical stimulability resulting from the administration of the aminazine is the result of two factors: (1) a lowering in the force of the process of stimulation in the cortical and subcortical regions, which expresses itself as a delay or as a complete disappearance of the conditioned reflexes in their phase states and a lowering in the magnitude of the unconditioned reflexes, and (2) an enhancement, depending upon the dose of the drug, of a variety of internal inhibitions. Results indicate that aminazine acts at different levels of the brain affecting the cortical regions first and the subcortical later.

B. S. Leylue

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SAVCHUK, V.I.

Unconditioned vascular reflexes in the presence of various functional states of the human cerebral cortex [with summary in English]. Zhur.vys.nevr. delat. 8 no.6:804-813 N-D '58

(MIRA 12:1)

1. Laboratory of Pathophysiology of the Higher Nervous Activity, Institute of Psychiatry Ministry of Public Health of the RSFSR, Moscow.

(CEREBRAL CORTEX, physiol.

eff. of various function states on unconditioned vasomotor reflexes (Rus))

(BLOOD VESSELS, physiol.

unconditioned vasomotor reflexes, eff. of various funct. states of cerebral cortex (Rus))

SAVCHUK, V.I., kand.med.nauk; MASHANOVA, G.A.

Disturbances in the conditioned reflex activity in patients with cerebral atherosclerosis with mental changes. Trudy Gos. nauchno-issl. inst. psikh. 22:287-302 '60. (MIRA 15:1)

1. Laboratoriya patofiziologii vysshey nervoy deyatel'nosti (zav. - laboratoriyey - prof. Yu.N.Uspenskiy) i klinika sosudistykh psikhozov (zav. klinikoy - prof. V.M.Banshchikov) Gosudarstvennogo nauchno-issledovatel'skogo instituta psikiatrii Ministerstva zdravookhraneniya RSFSR.

(CONDITIONED RESPONSE)

(CEREBRAL ARTERIOSCLEROSIS)

(MENTAL ILLNESS)

SAVCHUK, V.I.; GOLUBYKH, L.I.

Study of the mobility of cortical nerve processes in man by the method of vascular conditioned and nonconditioned reflexes. Zhur. vys. nerv. delat. 10 no. 3:386-394. My-Je '60. (MIRA 14:2)

1. Laboratory of Pathophysiology of Higher Nervous Activity, Institute of Psychiatry, R.S.F.S.R. Ministry of Public Health, Moscow.

(CONDITIONED RESPONSE) (REFLEXES) (BLOOD VESSELS)

SAVCHUK, V.I.

Effect of aminazine on various segments of the brain according to data of experimental studies. Zhur. nerv. i psikh. 60 no. 2:182-193 '60. (MIRA 14:4)

1. Laboratoriya patofiziologii vysshey nervnoy deyatel'nosti (zav. - prof. Yu.N. Uspenskiy) Nauchno-issledovatel'skogo instituta psikiatrii (dir. - prof. V.M. Banshchikov) Ministerstva zdravookhraneniya RSFSR, Moskva.
(CHLORPROMAZINE) (BRAIN)

SAVCHUK, V.I.

Mechanism of the action of aminazine on the central nervous system.
Trudy Gos.nauch.-issl.inst.psikh. 27:212:221 '61. (MIRA 15:10)

1. Gosudarstvennyy institut psikiatrii Ministerstva zdravookhrane-
niya RSFSR. Dir. - prof. V.M.Banshchikov. Nauchnyy rukovoditel'
prof. S.D.Kaminskiy [deceased].
(CHLORPROMAZINE) (NERVOUS SYSTEM)

073570 also 2322

39198
S/246/62/062/002/001/006
I015/I215

AUTHOR: Savchuk, V. I.

TITLE: Experimental data on the effect of tofranil on the higher nervous activity

PERIODICAL: Zhurnal nevropatologii i psikiatrii imeni S. S. Korsakova, v. 62, no. 2, 1962, 170-177

TEXT: The present study was initiated because no other studies about the effect of tofranil on the higher nervous activity had been reported. Chronic experiments were carried out on five dogs. The dosage, timing, and other technical data are given. The results indicated that even relatively small doses (1.0-5.0 mg/kg b.w.) of tofranil had a certain effect on basic nervous activities. The main effect of tofranil was an increase in excitability, causing an alteration in the inhibition-excitation relationship. Large doses (10-25 mg/kg b.w.) brought about, however, a decrease in the excitatory effect of the drug, and most of the positive conditioned reflexes disappeared. It was found that the psychic pattern of the animal influenced to a large extent the effect of tofranil. Thus, the greatest equilibration effect of tofranil was on the most excited dog. But even in this case, the effect was not a constant one, though the dose was adequate: the effect lasted only for 5-7 days. The author explains the above effect of tofranil in depressive states by the fact that the drug acts on the cortical processes. There are 2 tables and 2 figures.

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BANSHCHIKOV, V.M., prof.; SAVCHUK, V.I., starshiy nauchnyy sotrudnik

Dynamics of higher nervous activity and the state of neuro-vascular regulation in cerebral atherosclerosis. Trudy Gos. nauch-issl.inst.psikh. 25:169-194 '61. (MIRA 15:12)

1. Klinika sosudistykh psikhozov (zav. - prof. V.M.Banshchikov) i otdel patofiziologii vysshey nervnoy deyatel'nosti (zav. - prof. Yu.N.Uspenskiy) Gosudarstvennogo nauchno-issledovatel'skogo instituta psikiatrii Ministerstva zdravookhraneniya RSFSR. (NERVOUS SYSTEM) (CEREBRAL ARTERIOSCLEROSIS)

SAVCHUK, V.I., kand.med.nauk; GROMOVA, V.V., mladshiy nauchnyy sotrudnik;
ENTIN, G.M., mladshiy nauchnyy sotrudnik

Data from a clinical and pathophysiological study of the therapeutic action of dicoline in the treatment of vascular diseases of the brain with mental disorders; report No. 2. Trudy Gos.nauch-issl.inst.psikh. 25:352-367 '61. (MIRA 15:12)

1. Klinika sosudistyykh psikhozov (zav. - prof. V.M.Banshchikov) i otdel patofiziologii vysshey nervnoy deyatel'nosti (zav. - prof Yu.N.Uspenskiy) Gosudarstvennogo nauchno-issledovatel'skogo instituta psikiatrii Ministerstva zdravookhraneniya RSFSR.
(DICOLINE) (MENTAL ILLNESS) (CEREBROVASCULAR DISEASE)

KOSENKO, Z.V., doktor.med.nauk; SAVCHUK, V.I., kand.med.nauk

Clinical characteristics and disorders of higher nervous activity
in cerebral vasopathy. Trudy Gos.nauch-issl.inst.psikh. 25:518-
537 '61. (MIRA 15:12)

1. Klinika sosudistykh psikhozov (zav. - prof. V.M.Banshchikov)
i otdel patofiziologii vysshey nervnoy deyatel'nosti (zav. -
prof. Yu.N.Uspenskiy) Gosudarstvennogo nauchno-issledovatel'skogo
instituta psikiatrii Ministerstva zdravookhraneniya RSFSR.
(NERVOUS SYSTEM) (CEREBROVASCULAR DISEASE)

SAVCHUK, V.I.

Effect of different doses of chlorpromazine on the higher nervous activity of dogs in experimental neurosis. Trudy Gos.nauch.-issl.inst.psikh. 35:145-157 '62. (MIRA 16:2)

1. Otdeleniye patofiziologii vysshey nervnoy deyatel'nosti (zav. otdeleniyem - kand.med.nauk V.I. Savchuk) Gosudarstvennogo nauchno-issledovatel'skogo instituta psikiatrii.
(CHLORPROMAZINE) (NEUROSES)

USPENSKIY, Yu.S., prof.; ZAVCHIN, V.I.; RABINOVICH, A.Ya.;
TIRPUL'YAN, Yu.I.; ZELENSKIY, G.V., red.

[Conditioned response analysis of the effect of psychotropic substances; essays on psychopharmacology] Uslovno-reflektorny analiz deistviia psikhotropnykh veshchestv; etiudy po psikhofarmakologii. Moskva, Meditsina, 1964.
143 p. (MIRA 17:6)

BANSHCHIKOV, V.M.; SAVCHUK, V.I.

Functional state of the higher regions of the brain (vascular
analysor) in cerebral atherosclerosis and vascular pathology.
Trudy 1-go MMI 34:473-493 '64. (MIRA 18:11)

1. Laboratoriya patofiziologii vysshey nervnoy deyatel'nosti
(zav. - V.I. Savchuk) Gosudarstvennogo nauchno-issledovatel'skogo
instituta psikhatrii Ministerstva zdravookhraneniya RSFSR
(dir. - prof. D.D. Fedotov) i kafedra psikhatrii (zav. - zaslu-
zhenny deyatel' nauki prof. V.M. Banshchikov) 1-go Moskovskogo
ordena Lenina meditsinskogo instituta imeni Sechenova.

L 31795-66

EWT(m)/ENP(j) EM

ACC NR: AP6021685

SOURCE CODE: UR/0079/66/036/003/0500/0506

AUTHOR: Meyryzhlova, A. A.; Savchuk, V. I.; Kmunyants, I. L.

ORG: none

TITLE: S-alkylthiophosphonic acids and their derivatives. I. Influence of induction and conjugation on the dissociation constants of the acids

SOURCE: Zhurnal obshchey khimii, v. 36, no. 3, 1966, 500-506

TOPIC TAGS: phosphonic acid, nonmetallic organic derivative, conjugate bond system, dissociation constant, substituent, organic sulfur compound, chlorinated organic compound

ABSTRACT: A series of thioesters of alkylthiophosphonic and arylthiophosphonic acids were produced for the first time by the action of water on benzene solutions of the corresponding thiolchlorophosphates. Acid thioesters of alkyl- and arylthiophosphonic acids are thermally unstable compounds, in contrast to their oxygen analogs; S-alkylalkyl- and S-alkylarylthiophosphonic acids are stronger acids than their oxygen analogs. The dissociation constants of the acids were determined and were found to depend not only on the inductive influence of substituents, but also on the ability of the atoms or groups of atoms bonded to the phosphorus to participate in conjugation with the vacant 3d-level of the phosphorus atom. The influences of induction and conjugation upon the dissociation constants of the acids are discussed. Orig. art. has: 6 tables. [JPRS]

SUB CODE: 07 / SUEM DATE: 19Apr65 / ORIG REF: 005 / OTH REF: 007

Card 1/1

UDC: 547.419.1+543.257.1

GOLUBYKH, L.L.; SAVCHUK, V.I.

Characteristics of study of vascular conditioned and non-conditioned reflexes in man by means of plethysmography. Zhur. vya. nerv. deiat. 10 no. 1:32-41 Ja-F '60. (MIRA 14:2)

1. Laboratory of Pathological Physiology of Higher Nervous Activity, Institute of Psychiatry, R.S.F.S.R. Ministry of Health.
(CONDITIONED RESPONSE) (PLETHYSMOGRAPHY)
(BLOOD VESSELS)

SAVCHUK, V.M.

I. Franko's criticism of capitalism and bourgeois liberalism.
Hank.nap.Kiev.un. 15 no.8:33-97 '56. (MLRA 10:7)
(Franko, Ivan, 1856-1916) (Capitalism) (Liberalism)

L 45584-66 EWT(d)/EWT(m)/EWP(w)/EWP(v)/T/EWP(t)/ETI/EWF(k)/EWP(r)
 ACC NR: AP6031410 (A) SOURCE CODE: UR/0135/66/000/009/0018/00
 AUTHOR: Slavin, G. A. (Candidate of technical sciences); Sekretareva,
 E. S. (Engineer); Savchuk, V. P. (Engineer)

47
 46
 8

ORG: none

TITLE: Automatic TIG welding of aluminum alloys in a vertical position

SOURCE: Svarochnoye proizvodstvo, no. 9, 1966, 18-20

TOPIC TAGS: ~~aluminum alloy~~ ^{metal} welding, aluminum alloy, TIG welding, alloy pulsed power welding, vertical position alloy welding / AMg6 aluminum alloy

ABSTRACT: AMg6 aluminum alloy specimens 3-20 mm thick were TIG welded in vertical position with a conventional continuous-power welder or with an IPDI-1000 experimental pulsed-power welder producing pulse currents up to 900 amp. Results showed that pulsed-power welding offers a number of advantages: metal parts up to 6-8 mm thick can be welded without preparation of edges (for heavier parts at least one side should be beveled); 10-mm thick parts can be joined in one pass with satisfactory weld formation; parts over 10 mm thick can be joined with a satisfactory penetration of the root weld. Pulsed-power welding yields dense, fine-grained welds with no porosity and a tensile strength of 29-35.6 kg/mm² vs. 35.7 kg/mm² of the base metal. The advantages of

UDC: 621.791.754:546.29:669.715

Card 1/2

SAYCHUK, E. K.

Hydrolysis of esters of aromatic sulfonic acids. II. Effect of substituents in the benzene ring on the rate of hydrolysis of ethyl sulfonates and aromatic sulfonyl chlorides. R. V. Virzser and E. K. Saychuk (Polytech. Inst. Lvov). *Zhur. Obshchei Khim.* **36**:2307 (1968); cf. C.A. **50**, 218c. — Rates of hydrolysis in 70% aq. dioxane were studied for arylsulfonyl chlorides with H₂O, and aromatic Et sulfonates with NaOH (except the *m*-NO₂ deriv. which was hydrolyzed with H₂O and with NaOH), studies being made mainly at 30° and 60°, in some cases at 70° for the esters, and 30°, 50°, and in some cases 0° and 15° for sulfonyl chlorides. The following 2C₆H₄SO₂Cl were examd. (Z given): *p*-Cl, *p*-Br, *p*-Me, *p*-MeO, *p*-NO₂, *m*-NO₂, *o*-NO₂, *p*-MeCONH, 3,5-(O₂N)₂, 2,5-Cl₂. The following EtO₂SC₆H₄Z were studied: *p*-Cl, *p*-Br, *p*-NO₂, *p*-Me, *p*-MeO, *m*-NO₂, *o*-NO₂, 3,5-(O₂N)₂, and 2,5-Cl₂. The substituents in *p*-position have the same effect on reaction rate in the sulfonyl chlorides as in sulfonate esters; *o*-substituents decrease the rate of hydrolysis in comparison with *p*- or *m*-groups in the sulfonyl chloride series, and increase the rate of hydrolysis of the sulfonate esters in this respect. Hydrolysis of arylsulfonyl chlorides thus occurs at the reactive center S of the SO₂ group, while in the esters the attack occurs at C of the alc. radical. The following descending order of influence on reaction rates is found for the groups: *p*-NO₂, *p*-Cl, *p*-Br, H, *p*-MeCONH, *p*-Me, *p*-MeO. In the nitro derivs. the descending order is *p*-, *m*-, *o*-. In the hydrolysis of sulfonyl chlorides: for Et esters the order is *o*-, *p*-, *m*-, H.

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3,5-Disposition of 2 nitro groups greatly accelerates hydrolysis of both types; 2,6-disposition of 2 Cl groups results in great acceleration of hydrolysis of the ester, but has very little effect on that of the sulfonyl chloride. The following rate consts. were found in hydrolysis of sulfonyl chlorides: at 60° *p*-MeO 23.0×10^{-3} , *p*-Me 24.5, *p*-MeCONH 28.75, *H* 34.5, 2,6-Cl₂ 31.17, *p*-Br 49.1, *p*-Cl 40.7, *o*-NO₂ 45.3, *m*-NO₂ 128.7, *p*-NO₂ not detd., 2,5-(NO₂)₂ not detd.; at 30° 5.0, 5.9, 7.7, 8.67, 9.1, 13.3, 14.0, 12.4, 41.3, 123.3, not detd.; at 15° —, —, —, —, —, —, —, —, 50.0, 175.0. Activation energies (cal./mole) were calcd. as: 14,550, 13,810, 13,030, 13,430, 12,870, 12,310, 12,310, 13,680, 11,000, 10,350, 9,110. In the series of Br sulfonates the rate consts. were: at 30° *p*-MeO not detd., *p*-Me not detd., *H*, not detd., *p*-Cl 0.210×10^{-3} , *p*-Br 0.220, *p*-NO₂ 1.0, *m*-NO₂ 0.833, *o*-NO₂ 2.08, 3,5-(NO₂)₂ not detd. (at 15° 1×10^{-3}), 2,6-Cl₂ 0.909; at 50° 0.248, 0.291, 0.569, 1.445, 1.440, 6.52, 3.45, 14.08, —, 5.925; at 70° 1.655, 1.816, 3.210, —, —. Activating energies (cal./mole) were calcd. as: 20,380, 20,150, 19,070, 18,800, 18,270, 17,710, 18,270, 18,580, —, 18,240. The *P_s* factor was calcd. and estd. in the sulfonyl chloride group to range from 8.9 to 8.2, while in the ester group it ranged from 9.5 to 10.72. III. Hydrolysis of phenyl esters of substituted benzenesulfonic acids. *Ibid.* 2268-73.—Ph esters of substituted aromatic

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Vizpert, A. V., Savchuk, E. K.,

followed by titration to phenolphthalein with NaOH gave from the org. layer 50.8% $1-C_6H_5SiMe(OH)_2$, m. 106-7° (from C_6H_5). Slow addn. at 0° of 0.25 mole III to 0.5 mole $AcONa$, 0.25 mole MgO , and 125 g. H_2O with 125 ml. Et_2O gave from org. layer the same silanediol, m. 106-7°. Shaking IV with ice- Et_2O and titrating with NaOH as above gave from org. layer 50% $1-C_6H_5Si(OH)_2$, m. 89-90° (from C_6H_5 -petr. ether). VI: Preparation of secondary dialkyl(aryl)chlorosilanes, dialkyl(aryl)silanols, and some of their transformallons. M. F. Shostakovskii, D. A. Kochkin, and V. M. Rogov. *Ibid.* 1062-9; cf. C.A. 49, 1541k. Addn. of $EtMgBr$ from 24 g. Mg and 109 g. $EtBr$ in Et_2O (14 g. Li ma / replace the Mg , and $EtLi$ be used) to 120.8 g. $EtSiHCl_2$ with cooling, followed by refluxing 5 hrs. gave 44.8% Et_2SiHCl , b₉₀ 97-9°. This (40.8 g.) in 300 ml. Et_2O was treated at 5° 4 hrs. with NH_3 , filtered and distd. yielding 83.5% $(Et_2SiH)_2NH$, b₉₀ 102-3°, b₉₀ 183-8°, n_D²⁰ 1.4340, d₄ 0.8035. This (18.9 g.) hydrolyzed by stirring in 130 ml. Et_2O with 45 ml. H_2O in the presence of methyl orange with cooling, by slow addn. of 68.9 ml. 0.41N HCl (3-4 hrs.) gave on fractionation 34.0% Et_2SiHOH , b₉₀ 50-3°, n_D²⁰ 1.4170, d₄ 0.820, a liquid with camphor-like odor; $(Et_2SiH)_2O$, b₉₀ 91-2.5°, d₄ 0.8153, n_D²⁰ 1.4154, obtained from other fractions; reduces $AgNO_3$ and $KMnO_4$. This substance is obtained in 80.1% yield when 49.2 g. chlorosilane in 200 ml. Et_2O is treated with cooling with $N-NaOH$ until alk. to 1/5

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phenolphthalein. Similarly, PhMgBr , from 157 g. PhBr and 129 g. EtSiHCl_2 gave 58% EtPcSiHCl_2 , b_p 204-7.5°, d_4 1.0505, n_D^{20} 1.5206, which explodes on strong heating or under action of light; its decompn. upon distn. at atm. pressure is noticeable. On hydrolysis, as above, with N. NaOH it gave 18.9% EtPcSiHOH , b_p 62.3-4°, n_D^{20} 1.5090, d_4 0.9496, which heated in sealed tube with aq. HCl 8 hrs. at 100° gave 80.8% $(\text{EtPcSiH})_2\text{O}$, b_p 140.5°, n_D^{20} 1.5230, d_4 0.9884. iso-BuMgBr , from 137.03 g. RBr and 129 g. EtSiHCl_2 gave 48.7% iso-BuSiEtHCl_2 , b_p 140°, d_4 0.9829, n_D^{20} 1.4250, which hydrolyzed with N. NaOH to 24.2% iso-BuSiEtHOH , b_p 53-5°, d_4 0.8237, n_D^{20} 1.4172, and 84% $(\text{iso-BuSiEtH})_2\text{O}$, b_p 80.5-3.9°, d_4 0.8969, n_D^{20} 1.4195. The silanol heated with aq. HCl in a sealed tube to 100° 2.5 hrs. gave 73.1% $(\text{iso-BuSiEtH})_2\text{O}$, identical with above. Mixing at -3° 19.7 g. iso-BuEtSiHOH , 10.8 g. $\text{EtOCH}_2\text{CH}_3$, and 1 drop HCl and heating this in a sealed tube 5 hrs. at 50° gave a range of products contg. $(\text{EtO})_2$

CHMe and 4.5 g. EtOCHMeOSiEtCl_2 , CHMe , b_p 93°, b_{714} 181°, n_D^{20} 1.410, d_4 0.8138, along with 4.2 g. $(\text{iso-BuSiEtH})_2\text{O}$. Pure EtSiHCl_2 , b_p 97-0°, d_4 0.8731, n_D^{20} 1.4114. VI. Reaction of hydrogen containing alkyl(aryl) dichlorosilanes with alcohols. M. F. Shostakovskii, D. A. Kochkin, V. L. Vinogradov, and V. A. Neterman. *Ibid.* 1269-71. —Addn. of 79.04 g. BuOH to EtSiHCl_2 with ice- NaCl followed by heating until HCl evolution ceased, gave 85% EtSiH(OBu)Cl , b_p 60°, n_D^{20} 1.4126, d_4 0.9285. MeSiHCl_2 (115 g.) with 143 g. BuOH gave 50.2% MeSiH(OBu)Cl , b_p 80°, 1.4040, 1.8485, 11.4 g. MeSi(OBu)_2 , b_p 141.5°, 1.4135, 0.8771, and 51.5 g. high-boiling prod-

Vizgert A.V., Sotnikov E.M.

sulfonic acids were hydrolyzed in 70% aq. dioxane with NaOH at 30°, 50° and 70°. The esters are not hydrolyzed by H₂O. *o*-Substituents decrease the rate of hydrolysis of Ph esters to a greater degree than *m*- or *p*-substituents. The results indicate that hydrolysis takes place with removal of an OPh group, possibly through the intermediate addn. of OH⁻ to the central S atom. The following values were obtained for rate constants ($\times 10^3$) and activation energy (kcal./mole) for XC₆H₄SO₂Ph (X: k₁₀, k₅₀, k₇₀, and activation energy, resp. given): *p*-MeO (m: 58-7°), —, 0.076, 0.437, 19,280; *p*-Me (m: 94-5°), —, 0.145, 0.790, 18,660; *H* (m: 36-6°), 0.039, 0.274, 1.897, 17,860; *p*-Cl (m: 82-3°), 0.191, 1.120, —, 17,190; *p*-Br (m: 115-16°), 0.195, 1.128, —, 17,080; *p*-NO₂ (m: 113-14°), 6.79, 26.3, —, 13,160; *m*-NO₂ (m: 94°), 3.4, 11.44, —, 15,200; *o*-NO₂ (m: 57°), 1.35, 7.34, —, 16,340; *o*-NO₂ (m: 101°), 5.8 (at 15°), —, —, 4.5-Cl₂ (m: 91-2°), 0.518, 2.97, —, 17,030.

G. M. Kosolapoff

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PM MK

SAVCHUK, Ye. K.

VIZGERT, R.V.; SAVCHUK, Ye. K.

Hydrolysis of aromatic sulfonic acid esters. Part 3: Hydrolysis of phenyl esters of substituted benzenesulfonic acids. Zhur. ob. khim. 26 no.8:2268-2273 Ag '56. (MLRA 10:11)

1. L'vovskiy politekhnicheskii institut.
(Benzenesulfonic acid)

Saychuk, E.K.

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/Hydrolysis of esters of aromatic sulfonic acids. II. Effect of substituents in the benzene ring on the rate of hydrolysis of ethyl sulfonates and of aromatic sulfonyl chlorides. R. V. Vizgert and E. K. Saychuk. *J. Gen. Chem. U.S.S.R.* 26, 2520-38 (1956) (English translation). III. Hydrolysis of phenyl esters of substituted benzenesulfonic acids. *Ibid.* 2637-42. — See *C.A.* 51, 4984d. B. M. R.

VIZGERT, R.V.; SAVCHUK, Ye.K.

Hydrolysis of aromatic sulfonic esters. Part 6: Alkaline and aqueous hydrolysis of nitro substituted arylsulfonates. Zhur. ob. khim. 28 no. 8:2114-2119 Ag '58. (MIRA 11:10)

1. L'vovskiy politekhnicheskiy institut.
(Sulfonic acids)

5(2)

AUTHORS:

Vizgert, R. V., ~~Savchuk, Ya. K.~~,
Ponomarchuk, M. P.

SOV/20-125-6-22/61

TITLE:

Use of O^{18} in the Investigation of the Mechanism of the
Hydrolysis of the Nitrosubstituted Aryl Sulphonates
(Issledovaniye mekhanizma gidroliza nitrozameshchennykh
arilsul'fonatov s pomoshch'yu O^{18})

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 125, Nr 6, pp 1257-1259
(USSR)

ABSTRACT:

The hydrolysis reactions of the esters may proceed either according to an acyl-oxygen- (Refs 1-3) or according to an alkyl-oxygen reaction (Ref 4), or finally, according to both mechanisms at the same time (rare)(Ref 5). The electric

negativity of the radicals R and R' in an ester $R-C \begin{matrix} // O \\ \backslash OR' \end{matrix}$

(Ref 6) as well as the substituents influence the hydrolysis mechanism considerably if the latter produce spatial hindrances at the place of reaction (Refs 7-9). The question as to the place of rupture and for the hydrolysis mechanism (whether it proceeds as reaction S Nr 1 or as S Nr 2) of the aryl esters of

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Use of O^{18} in the Investigation of the Mechanism of SOV/20-125-6-22/61
the Hydrolysis of the Nitrosubstituted Aryl Sulphonates

aromatic sulfo acids was decided after a long time in favor of the acyl-oxygen mechanism (Ref 21) (for phenyl-n-toluene-sulphonate). The authors' investigations (Refs 22-24) confirm the method mentioned (S Nr 2) for the aryl sulphonates. If it is taken into account that the aryl sulphonates (as well as the alkyl sulphonates) react in the above mentioned reactions under the rupture of the O-Ar-bond, it was interesting to investigate the alkaline and neutral hydrolysis of the nitrosubstituted aryl sulphonates by means of H_2O^{18} . This was to explain the place of rupture in the hydrolysis. In the present paper phenyl-4-nitrobenzosulphonate (1), 4-nitrophenyl-benzene-sulphonate (2), 2,4-dinitrophenyl-2-nitrobenzosulphonate (3), and 2,4-dinitrophenyl-p-toluene-sulphonate (4) were subjected to an alkaline hydrolysis with H_2O^{18} , furthermore the esters of the substances (3) and (4) as well as 2,4-dinitrophenyl-benzosulphonate. A dioxane-water medium (70% dioxane) served for this purpose. Ester and alkali (1:3) were hydrolyzed for six hours at 80° with a recoling agent. Both hydrolysis products, phenol and the sulfo acid salt were analyzed for their O^{18} -

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Use of O^{18} in the Investigation of the Mechanism of the Hydrolysis of the Nitrosubstituted Aryl Sulphonates SOV/20-125-6-22/61

content. The phenols contained practically no excess of heavy oxygen. The salts mentioned, however, contained a quantity of O^{18} very similar to that expected in the case of the transition of an oxygen atom into the molecule of these salts. Thus, all investigated aryl sulphonates are hydrolyzed according to the acyl-oxygen mechanism (see scheme). It may be assumed that hydrolysis takes place in consequence of a nucleophile attack of the OH-ion on a positively charged sulphur atom. A neutral hydrolysis of the ester of the 2,4-dinitrophenyl-2-nitrobenzo-sulfo acid and of the 2,4-dinitrophenyl-p-toluene-sulfo acid was not fully carried out in order to clarify the intermediate stages of the mechanism mentioned. The determined acyl-oxygen mechanism of the esters investigated here corresponded to the arylating effect of several of these esters. Finally it was proved by experiments that no undesired reactions of the isotopic exchange occur under the given experimental conditions. There are 31 references, 6 of which are Soviet.

ASSOCIATION: L'vovskiy politekhnicheskij institut (L'vov Polytechnic
Card 3/4

Use of O^{18} in the Investigation of the Mechanism of the Hydrolysis of the Nitrosubstituted Aryl Sulphonates SOV/20-125-6-22/61

Institute) Institut fizicheskoy khimii im. L. V. Pisarzhevskogo
Akademii nauk USSR (Institute of Physical Chemistry imeni
L. V. Pisarzhevskiy of the Academy of Sciences Ukr SSR)

PRESENTED: January 15, 1959, by M. I. Kabachnik, Academician

SUBMITTED: January 15, 1959

Card 4/4

VIZGERT, R.V.; SAVCHUK, Ye.K.

Effect of the structure and polarity of the medium on the rate
and mechanism of hydrolysis of aromatic sulfochlorides. Dokl.
LPI 5 no. 1/2:29-33 '63. (MIRA 17:6)

VIZGERT, R.V.; SAVCHUK, Ye.K.

Mechanism of reactions involved in nucleophilic substitution at the sulfur atom in benzenesulfonyl chloride. Ukr.khim.zhur. 29 no.3:307-314 '63.
(MIRA 16:4)

1. L'vovskiy politekhnicheskii institut.
(Benzenesulfonyl chloride) (Substitution (Chemistry))

VIZGERT, R.V.; SAVCHUK, Ye.K.

Effect of the polarity of the medium on the hydrolysis of aromatic sulfochlorides. Zhur. ob. khim. 34 no.10:3396-3402 0 '64.

(MIRA 17:11)

1. L'vovskiy politekhnicheskii institut.

VIZGERT, R.V.; SAVCHUK, Ye.K.; PRIB, O.A.

Reactions of esters of aromatic sulfonic acids. Part 11: Alkaline
and neutral hydrolysis of nitro substituted phenyl benzoyl sulfonates.
Zhur. ob. khim. 31 no.1:194-198 Ja '61. (MIRA 14:1)

1. L'vovskiy politekhnicheskiy institut.
(Sulfonic acid)

SAVCHUK, Ye.V. (Bikinskiy rayon, Khabarovskogo kraya); KORKISHKO, N.V.

Readers' letters. Zashch. rast. ot vred. i bol. 6 no.7:19 JI
'61. (MIRA 16:5)

(Plants, Protection of)

L 23690-66 EWT(1)/EWT(m)/EPF(n)-2/EWP(t) IJP(c) JD/WW/JG/AT

ACC NR: AR6005197

SOURCE CODE: UR/0058/65/000/009/DO07/DO07

SOURCE: Ref. zh. Fizika, Abs. 9D53

AUTHORS: Palyukh, B. M.; Savchyn, L. S. ²⁷ ¹⁶

48
B

TITLE: Resonance charge exchange in zinc vapor

REF SOURCE: Rezonansna Perezaryadka v pari tsynku. Visnyk L'vivs'k. un-tu. Ser. fiz. L'viv, 1964, 83-86

TOPIC TAGS: zinc, charge exchange, ion neutralization, resonance scattering, scattering cross section

TRANSLATION: The authors investigate the process of resonance charge exchange of atoms and ions of zinc. The measurements were made for ions with energy 64-400 ev. The values obtained for the effective cross sections are close to those calculated by the formula of O. B. Firsov.

SUB CODE: 20

X

Card 1/1 ✓

SAVDUCHENKO, P.A.
KOVALENKO, Georgiy Mikhaylovich, kuznets; SAVDUCHENKO, P.A., redaktor;
DUGINA, N.A., tekhnicheskiy redaktor.

[Efficient forging methods] Proizvoditel'nye metody kovki. Izd.2-oe.
dip. i perer. Moskva, Gos.nauchno-tekh. izd-vo mashino-stroitel'nyy, lit-ry,
1956, 44 p. (MIRA 10:4)

1. Uralmashzavod (for Kovalenko)
(Forging)

KURMAZ, I., inzh.-podpolkovnik; SAVDUR, I., inzh.

Analysis of the performance of the hydraulic system of a helicopter.
Avi kosm. 45 no.5:61-64 My '63. (MIRA 16:5)
(Helicopters—Hydraulic equipment)

SAVEANU, L.

Problems connected with the application of nuclear energy in machinery construction. p. 85.

METALURGIA SI CONSTRUCTIA DE MASINI

Vol. 8, no. 1, Jan. 1956

Rumania

Source: EAST EUROPEAN LISTS Vol. 5, no. 10 Oct. 1956

SAVRANU, L.

SAVRANU, L.

SAVRANU, L. The calculation of the fatigue of the tothing of gear in conditions of its flexion stress. p. 23.

Vol. 8, no. 2, Feb. 1956.
METALURGIA SI CONSTRUCTIA DE MASINI.
TECHNOLOGY
ROMANIA

So: East European Accession, Vol. 6, no. 5, May 1957

SAVEANU, R.; TOPALA, E.V.

For the improvement of the works in designing capital constructions.
Probleme econ 14 no.6:34-48 Je '61.

CA

23

Bisulfite residues. Gh. Alexa and T. Saveanu. *Bull. Colegiul Politeh. Jassy* 3, 435-42 (1948) (in French). --The fermentation of the sulfite waste liquor from 2 Rumanian plants, Letea and Cehulzoa, gave 1 and 0.8% alc. by vol., resp. Attempts to decrease foam during fermentation by sterilizing the neutralized liquor at 80-5° for 5 min., resulted in a 10.9 to 11.5% decrease in yield. C. W. G.

1ST AND 10TH ORDERS 100 AND 10TH ORDERS
PROCESSES AND PROPERTIES INDEX

28

CA

Common ELEMENTS
Common VARIABLES INDEX

Practical method of calculating water evaporated in the evaporator of a sugar refinery. T. Saverani. *Succ. belge* 68. 255-6; *Hull. inst. polytech. Jassy* 3, 731-3(1948).
—A method is given for calcg. the amount of water evapd. in from sugar juice from the Brix values of the juice entering and leaving each body of the evaporator. H. F. Pool

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

MATERIALS INDEX COMMON ELEMENTS
MATERIALS INDEX COMMON VARIABLES INDEX

1ST AND 10TH ORDERS 100 AND 10TH ORDERS
2ND LETTER 1ST AND 10TH ORDERS

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA	BB	BC	BD	BE	BF	BG	BH	BI	BJ	BK	BL	BM	BN	BO	BP	BQ	BR	BS	BT	BU	BV	BW	BX	BY	BZ	CA	CB	CC	CD	CE	CF	CG	CH	CI	CJ	CK	CL	CM	CN	CO	CP	CQ	CR	CS	CT	CU	CV	CW	CX	CY	CZ	DA	DB	DC	DD	DE	DF	DG	DH	DI	DJ	DK	DL	DM	DN	DO	DP	DQ	DR	DS	DT	DU	DV	DW	DX	DY	DZ	EA	EB	EC	ED	EE	EF	EG	EH	EI	EJ	EK	EL	EM	EN	EO	EP	EQ	ER	ES	ET	EU	EV	EW	EX	EY	EZ	FA	FB	FC	FD	FE	FF	FG	FH	FI	FJ	FK	FL	FM	FN	FO	FP	FQ	FR	FS	FT	FU	FV	FW	FX	FY	FZ	GA	GB	GC	GD	GE	GF	GG	GH	GI	GJ	GK	GL	GM	GN	GO	GP	GQ	GR	GS	GT	GU	GV	GW	GX	GY	GZ	HA	HB	HC	HD	HE	HF	HG	HH	HI	HJ	HK	HL	HM	HN	HO	HP	HQ	HR	HS	HT	HU	HV	HW	HX	HY	HZ	IA	IB	IC	ID	IE	IF	IG	IH	II	IJ	IK	IL	IM	IN	IO	IP	IQ	IR	IS	IT	IU	IV	IW	IX	IY	IZ	JA	JB	JC	JD	JE	JF	JG	JH	JI	JJ	JK	JL	JM	JN	JO	JP	JQ	JR	JS	JT	JU	JV	JW	JX	JY	JZ	KA	KB	KC	KD	KE	KF	KG	KH	KI	KJ	KK	KL	KM	KN	KO	KP	KQ	KR	KS	KT	KU	KV	KW	KX	KY	KZ	LA	LB	LC	LD	LE	LF	LG	LH	LI	LJ	LK	LL	LM	LN	LO	LP	LQ	LR	LS	LT	LU	LV	LW	LX	LY	LZ	MA	MB	MC	MD	ME	MF	MG	MH	MI	MJ	MK	ML	MM	MN	MO	MP	MQ	MR	MS	MT	MU	MV	MW	MX	MY	MZ	NA	NB	NC	ND	NE	NF	NG	NH	NI	NJ	NK	NL	NM	NN	NO	NP	NQ	NR	NS	NT	NU	NV	NW	NX	NY	NZ	OA	OB	OC	OD	OE	OF	OG	OH	OI	OJ	OK	OL	OM	ON	OO	OP	OQ	OR	OS	OT	OU	OV	OW	OX	OY	OZ	PA	PB	PC	PD	PE	PF	PG	PH	PI	PJ	PK	PL	PM	PN	PO	PP	PQ	PR	PS	PT	PU	PV	PW	PX	PY	PZ	QA	QB	QC	QD	QE	QF	QG	QH	QI	QJ	QK	QL	QM	QN	QO	QP	QQ	QR	QS	QT	QU	QV	QW	QX	QY	QZ	RA	RB	RC	RD	RE	RF	RG	RH	RI	RJ	RK	RL	RM	RN	RO	RP	RQ	RR	RS	RT	RU	RV	RW	RX	RY	RZ	SA	SB	SC	SD	SE	SF	SG	SH	SI	SJ	SK	SL	SM	SN	SO	SP	SQ	SR	SS	ST	SU	SV	SW	SX	SY	SZ	TA	TB	TC	TD	TE	TF	TG	TH	TI	TJ	TK	TL	TM	TN	TO	TP	TQ	TR	TS	TT	TU	TV	TW	TX	TY	TZ	UA	UB	UC	UD	UE	UF	UG	UH	UI	UJ	UK	UL	UM	UN	UO	UP	UQ	UR	US	UT	UU	UV	UW	UX	UY	UZ	VA	VB	VC	VD	VE	VF	VG	VH	VI	VJ	VK	VL	VM	VN	VO	VP	VQ	VR	VS	VT	VU	VV	VW	VX	VY	VZ	WA	WB	WC	WD	WE	WF	WG	WH	WI	WJ	WK	WL	WM	WN	WO	WP	WQ	WR	WS	WT	WU	WV	WW	WX	WY	WZ	XA	XB	XC	XD	XE	XF	XG	XH	XI	XJ	XK	XL	XM	XN	XO	XP	XQ	XR	XS	XT	XU	XV	XW	XX	XY	XZ	YA	YB	YC	YD	YE	YF	YG	YH	YI	YJ	YK	YL	YM	YN	YO	YP	YQ	YR	YS	YT	YU	YV	YW	YX	YZ	ZA	ZB	ZC	ZD	ZE	ZF	ZG	ZH	ZI	ZJ	ZK	ZL	ZM	ZN	ZO	ZP	ZQ	ZR	ZS	ZT	ZU	ZV	ZW	ZX	ZY	ZZ
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Săveanu, Teodor

✓ Method for the determination of the behavior of a high solids-content suspension upon filtration. Teodor Săveanu, I. Ibrănescu, and Radu Tudose. *Bul. inst. politeh. Iași* 2, No. 3-4, 129-32 (1956) (in Romanian) (Russian and French summaries).—Math. A method is developed for detg. the behavior of any suspension upon filtration. The correct filtration conditions for any given vol., filtration time, and pressure (within a pressure interval which can be used for practical purposes) can be selected after 2 experimental tests at different pressures have been made, by use of a graph which is presented. The math. results are tested for the case of an $Pc(OH)_2$ suspension and found to be correct.
Werner Jacobson

SAVEANU, T.

"Sowing on the eve of winter and treating the seeds of coriander and anise in order to speed up the germination"

p. 1047 (Comunicarile, Vol, 7, No. 12, Dec. 1957, Bucharest, Rumania)

Monthly Index of East European Accessions (EEAI) LC, Vol. 8, No. 1,
Jan. 58.

SAVEANU, T.

Practical training of chemical engineers in laboratories and factories.

P. 418 (REVISTA DE CHIMIE) (Bucuresti, Rumania) Vol. 8, no. 6, June 1957

SO: Monthly Index of East European Accessions (EEAI) LC Vol. 7, No. 5. 1958

SAVEANU, Th.; IBANESCU, I.; VASILIU, Mariana

Influence of the nature of material upon the mass transfer in the pellicular flow of the waves of a liquid. Studii chim Iasi 11 no.1: 139-148 '60. (EEAI 10:3)

1. Institutul politehnic Iasi, Laboratorul de procese si aparate.
(Film coefficients (Physics)) (Mass transfer)
(Wave mechanics) (Liquids)

SAVEANU, T.; DUMITRESCU, Gh.; GEORGESCU, E.; EDUARD, H.

Contribution to the epidemiological study of inframicrobial hepatitis
in the region of Ploiesti. Stud. cercet. inframicrobiol. 13 no.3:297-
312 '62.

(HEPATITIS, INFECTIOUS) (MORBIDITY) (MORTALITY)

SAVEANU, Th.; IBANESCU, I.; VASILIU, Mariana

About the critical Reynolds number in pellicular flow. Rev chimie Min
petr 13 no.10:589-592 0 '62.

SAUEANLU, TR.

1. "Occupational Cancer of the Integuments Caused by Tar, Bitumen and Its Derivatives," Prof. P. WARTZ; pp 1-11.
2. "Pollution of the Atmosphere in the Vicinity of an Electrical Thermopower Station," M. ZAPPELSON, S.I. ZVIRGA-SHELESKY, Dr. V. BARINA, Dr. F. SAVERNYI, E. IMBICU, E. MIDIO and St. DIMONAKOVA; pp 1-17.
3. "Notes on the Supply of Drinking Water in Rural Areas by Means of Small Central Supply Units (Water-Central Units)," Dr. T. STOFFER and Dr. SALLIA ORLANDINI; pp 19-25.
4. "Experimental Investigations on the Toxicity of Certain Chemical Substances Used in the Manufacture of Orange Glass Packaging for Milk," Dr. Silvia BARBI, Dr. C. BILGNER, Mrs. E. BOK and Mrs. G. DIETZ; work performed at the RFR Institute of Hygiene and Public Health (Instituto de Higiene e Saude Publica RFR), Sanj Branch (Filial de Sanj); pp 27-30.
5. "Investigations Concerning Influences of Ionizing Radiations on the Nutritive Value of Proteins and Lipids in Canned Pork," Dr. A. SORZI, Dr. H. RAGOVIC, Dr. Indigna GRIENBERG-CALIKOVA; work performed at the RFR Institute of Hygiene and Public Health (Instituto de Higiene e Saude Publica RFR), Budapest; pp 31-39.
6. "New Aspects Upholding the Use of Clostridium welchii bacterium as Sanitary Indicator for Food Producers," Dr. Corina ISTRITA; pp 41-48.
7. "The Use of Plant Tests in Food Toxicology," Elena ZVIRGA-SHELESKY, Dr. A. SPURJ and Silvia GIBLIN; RFR Institute of Hygiene and Public Health (Instituto de Higiene e Saude Publica RFR), Bucharest; pp 49-53.
8. "A Few Observations on Tube Collimetry," Dr. H. ZARBA and Dr Radu-Mihai EMERI; pp 55-60.
9. "Radioactive Pollution of Natural Water Reservoirs," Dr. Gh. ZAFIRI; pp 61-65.

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— 1/2 —

SAVEDOFF, M.

SPITZER, L.; ~~SAVEDOFF, M.~~ PIKEL'NER, S.B.

"The temperature of interstellar matter"[in English]. Abstract
by S.B.Pikel'ner. Vop.kosm. 3:319-320 '54. (ML3A 8:3)
(Gases, Interstellar) (Temperature)

SAVED'YEVA, Z. D., ORLOVA, V. G.

"The Problem of Disturbances in the Suprarenal Cortical Function in Clinically Healthy Women with the Symptom of Sterility."

Theses of the Proceedings of the Annual Scientific Sessions 23-26 March 1959
(All-Union Institute of Experimental Endocrinology)

From the Scientific Research Institute of Obstetrics and Gynecology (Director--
Docent L. G. Stepanov) of the Ministry of Health RSFSR

5 (3)

SOV/79-29-3-25/61

AUTHORS:

Shuykin, N. I., Bel'skiy, I. F., Savekina, O. N.

TITLE:

Hydrogenation of Silvan on Nickel Catalysts in the Liquid Phase
(Gidrirovaniye sil'vana na nikelevykh katalizatorakh v zhid-
koy faze)

PERIODICAL:

Zhurnal obshchey khimii, 1959, Vol 29, Nr 3, pp 869-874 (USSR)

ABSTRACT:

In the present paper the authors investigated the hydrogenation capability of the skeleton-Ni-Al- and -Ni-ZnO-catalyst in the liquid phase to determine the influence of the phase conditions in carrying out the reaction upon the hydrogenation of the furan ring. The experimental data obtained were compared with the rules which were earlier found by the authors on hydrogenation of the furan homologues on the same catalysts in the vapor phase. These data led to the conclusion that the hydrogenation of the furan ring can proceed on one and the same catalyst in different directions, according to the reaction in the liquid or vapor phase; Silvan and α -propenyl furan were hydrogenated in the autoclave at 120-150° under a hydrogen pressure of 50-150 atmospheres excess pressure on the skeleton-Ni-Al-catalyst. The principal reaction products were, accord-

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SOV/79-29-3-25/61

Hydrogenation of Silvan on Nickel Catalysts in the Liquid Phase

and on the phase conditions of the reaction. There are 1 table
and 9 references, 7 of which are Soviet.

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

SUBMITTED: December 20, 1957

Card 3/3

SHUYKIN, N.I.; BEL'SKIY, I.F.; SAVEKINA, O.N.

Catalytic reduction of furan carbonyl- and hydroxyl-containing
compounds. *Izv. AN SSSR. Ser.khim.* no.3:534-537 Mr '64.
(MIRA 17:4)

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

SAVEL, J

SDELOVACI TECHNIKA (Communication Engineering, Czechoslovakia)
Vol 2, No. 9, September, 1954

Electrical contacts in telecommunication engineering.
The electrical characteristics of various types of contacts are discussed and the measurements on 20 different contact materials are reported. It is concluded that: Pt, Pd, Au + 5% Ni and Pt + 10% Ir are suitable for very low currents and voltages; Ag and Ag + 30% Pd or Ag + 30% Pt are adequate for small loads; for medium loads with inductive circuits W is the best material, Pt + 8.5% Ni and Pt + 5% W, pure Pt or Pt + 10% Ir being suitable for capacitive circuits. Some circuits for the testing of contacts are shown and spark-quenching circuits are mentioned.

By J. Savel,

M 81

SAVEL, J.

CZECH

621.315.5066.6

2710. Contacts and contact materials for very low voltages and currents. [1] J. SAVEL. *Slabopromy Obzor*, 15, No. 11, 531-8 (1954) in Czech.

The experiments reported aimed at determining the most suitable contact materials, the requirements to be fulfilled being: low resistance, stability at low pressures and under variable chemical conditions, and absence of semiconducting layers. Six groups of materials were investigated: Ag, Au, Pt, Pd and their alloys, W and sintered materials with W as a predominant element, and sintered materials with Ag predominant. The contacts had the form of a rivet head with diameter 2mm, height 0.6mm and radius of curvature 1.5mm. Resistances of 44 different materials were measured under a variety of conditions, namely: (1) resistance of new contacts, R_0 , as a function of pressure P , $R_0 = f(P)$, the current being $I = 50$ mA; (2) $R_0 = f(I)$ at a pressure of 15g; (3) resistance of the contacts aged artificially in an atmosphere of H_2S as a function of pressure, $R_1 = f(P)$, at $I = 50$ mA and (4) $R_1 = f(I)$ at $P = 15$ g. The results are reported in four graphs and two tables. R. S. Smorowicz

[Handwritten initials]

SAVEL, J



2711. Contacts and contact materials for very low voltages and currents. [2]. J. SAVIL. *Stiboprousky Oheor*, 15, No. 12, 579-86 (1964) in Czech.

For Pt 1, see previous abstract. The following additional measurements are reported: (1) noise voltages across the contacts caused by mechanical vibration of the contact springs; the measurements were made on artificially aged contacts under conditions of constant current and pressure; (2) cleaning voltages, i.e. the voltages necessary to break down the insulating layers on the contact surfaces and (3) resistances of aged contacts at very low direct and alternating (100 kc/s) currents. The results are indicated in three additional tables, the methods of measurement being described and illustrated by diagrams. It is concluded that only Au, Pt and Pd are suitable for the contacts; the maximum amount of non-precious metals which can be added to Au, Pt and Pd without causing adverse effects should not exceed 30%.

R. S. SIDOROWICZ

B7 D

SAVEL, J.

Contacts and contact materials for very small potentials and currents. Pt. 1.
Measurement and testing of contacts p. 579.
SALPOPCUDY OBZOR, Vol. 15, No. 12, Dec. 1954, Prague.

SO: Monthly List of East European Accessions, (EEAL), LC, No. 5, No. 6, June 1956 Uncl.

SAVEL, J.

Contacts and contact materials for very low voltages and currents. Pt. 2.
Properties of contacts, sliding contacts, and materials. (Conclusion) p. 331.
(SLABOPROUDY OBZOR, Vol. 17, No. 6, June 1956, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, No. 12, Dec 1957. Uncl.

SAVEL, J.

A review of ferromagnetic materials.

P. 302, (Sdelovaci Technika, Vol. 5, no. 10, Oct. 1957, Praha, Czechoslovakia)

Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 2,
February 1958

SAVEL, Josef, inz.

British Radio and Electronic Component Show in London, 1961. Slabo-
proudny obzor 22 no.12:756-762 D '61.

(Radio) (Electronics)

SAVEL, Jozef

Improving the cooperation of technicians in work standardization.
Drevo 17 no.5:150 My '62.

1. Mier, n.p., Topoleany.

SAVEL, Josef, inz.

Microminiaturization. Slaboproudy obzor:Suppl.:Priloha pro
mlade inzenyry 24 no.5:P21-P24 My '63.

SAVEIJ, Tone; NOVAK, Meta

Our views on the treatment of perforated gastroduodenal ulcer.
Zdrav. vestn. 33 no.1:16-17 '64

1. Kirurški oddelek splosne bolnisnice v Novem Mestu (Pred-
stojnik: prim. dr. Oton Bajc).

KOSHELEV, V.; SHCHEGOLEV, M.; SAAN, Kh.; KIRILYUK, P.; IVANOV, A.; SAVELENKO, I.;
KRUPETS, A.; KONYAYEV, A.; BARMAKOV, V.; NIKOLAYENKO, A.; LUKASHOV, A.

Our strength resides in collective labor. Mast. ugl. 8 no.8:14-15
Ag '59. (MIRA 12:12)

1. Pyatyy uchastok shakhty "Novodruzheskaya" tresta Lisichanskugol'.
(Lisichansk--Coal miners)

SAVELEVA, A.A., dotsent, kand.tekhn.nauk; LUKICHEV, D.M., dotsent, kand.
tekhn.nauk; MUSATOV, A.K., starshiy prepodavatel'; NIKONOROV,
V.A., kand.tekhn.nauk; RESHETOV, L.N., doktor tekhn.nauk, prof., red.

[Theory of mechanisms and machines; lecture course] Teoriia mekha-
nizmov i mashin; kurs leksii. Moskva, Kafedra teorii mekhanizmov
i mashin. No.3. ["Dynamics of mechanisms and machines."] Razdel
"Dinamika mekhanizmov i mashin." 1959. 101 p.

(MIRA 14:7)

(Machinery, Kinematics of)

SAVEL'ÉVA, L. A.

OSINOV, V. V., SAVVIN, V. I., and SAVALÉVA, I. A.

"The Blood Vessels of the Heart in Norm and Pathology," Moscow, Medgiz
1954, 118 pp.

Comments : B 3,102,723, 18 Apr 58

SAVELIN, Z.

~~When the Hamburg fog lifts. Sov.profscluzny 5 no.7:84-87 J1 '57.~~
(Germany, West--Stock ownership) (MLRA 10:8)

AVELLI, L.

"Inclusion of Purchasing and Sales Departments in the Organization in Charge of Standardizing an Enterprise", P. 153, (SZABVANYOSITAS, Vol. 5, No. 10/11, Oct./Nov. 1953, Budapest, Hungary)

SC: Monthly List of East European Accessions (BEAL), LC, Vol. 4, No. 3, March 1955, Uncl.

SAVELIO, YE. K.

"Intraorganic lymphatic vessels under normal conditions and in certain diseases (clinical-roentgenological-anatomical investigation).# Dnepropetrovsk State Medical Inst. Dnepropetrovsk, 1955. (Dissertations for the Degree of Candidate in Medical Science)

So: Knizhaya letopis', No. 16, 1956

PHASE I BOOK EXPLOITATION

SOV/4497

Savelov, Aleksey Aleksandrovich

Ploskiye krivyye; sistematika, svoystva, primeneniya; spravocnoye rukovodstvo
(Plane Curves; Systematization, Properties, Application; Reference Book)
Moscow, Fizmatgiz, 1960. 293 p. 10,000 copies printed.

Ed. (Title page): A.P. Norden; Ed. (Inside book): Yu. I. Levin;
Tech. Ed.: S.S. Gavrilov.

PURPOSE: This book is intended for instructors and students of schools of higher education, for engineers, and for general readers acquainted with the fundamentals of mathematical analysis on the level of schools of higher technical education.

COVERAGE: The book contains a general theory of curves, discusses specific algebraic and transcendental curves, and presents diversified material in analysis and differential geometry. In particular the author discusses: transformation of curves, third-order, fourth-order, and higher-order curves, Steiner's curves, slip curves, and transcendental curves. The author claims that his book is the

Card 1/9

Plane Curves (Cont.)

SOV/4497

only encyclopedic textbook on plane curves in Soviet literature. The author thanks Professor A.P. Norden and Yu. I. Levin for their assistance. There are 13 references: 8 Soviet and 5 German.

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1. Notes from the history of the development of the study of curves	9
2. Methods of curve formation	13
3. Systematization of curves. General theorems	17
1. Algebraic and transcendent curves (17). 2. General theorems for algebraic curves (18) 3. Class of algebraic curve. Plücker's formulas (20) 4. Type of algebraic curve. Circular curves (22) 5. Focuses, diameters, center. Poles and polar lines (24) Newton's, Cotes' and Schall's theorems (25)	
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Card 2/9

SAVELOV, A.V.

Case of reno-intestinal fistula. Urologiia no.6361-62 '60.
(MIRA 15:5)

1. Iz rentgeno-radiologicheskogo otdeleniya (zav. - dotsent
A.A. Smirnov) i khirurgicheskogo otdeleniya (zav. - prof. G.G.
Dubinkin) Smolenskoy oblastnoy klinicheskoy bol'nitsy.
(FISTULA)

SAVELOV, A.V.

X-ray diagnosis of renal-intestinal fistulas. Vest. rent. i rad. 36.
no.6:66 N-D '61. (MIRA 15:2)

1. Iz rentgeno-radiologicheskogo otdeleniya (zav. - dotsent A.A.Smironov)
i khirurgicheskogo otdeleniya (zav. - prof. G.G.Dubinkin) Smolenskoy
oblastnoy klinicheskoy bol'nitsy (glavnyy vrach A.A.Tarasov).
(FISTULA) (KIDNEYS - RADIOGRAPHY)
(INTESTINES - RADIOGRAPHY)

STARSHINOV, B.N., kand.tekhn.nauk. SAVELOV, N.I., inzh., TARASOV, D.A.,
inzh., SUPRUN, I.Ye., inzh., GORBANEV, Ya.S., inzh., ELISKANOVSKIY,
S.T., inzh.

Adopting a blast furnace with a useful capacity of 1719 m³.
Metallurg 5 no.7:7-9 J1 '60. (MIRA13:7)
(Blast furnaces)

STARSHINOV, B.N., kand.tekhn.nauk; LEBEDEV, A.Ye., kand.tekhn.nauk;
LUKASHOV, G.G., inzh.; SAVELOV, N.I., inzh.; TARASOV, D.A., inzh.;
SUPRUN, I.Ye., inzh.; TIKHOMIROV, Ye.N., inzh.; SINITSKIY, V.D.,
inzh.; GORBANEV, Ya.S., inzh.; FRIKHODKO, L.D., inzh.

Operation of a blast furnace with a capacity of 1513 m³. Biul.
'TSIICHM no.9:1-6 '60. (MIRA 15:4)

(Blast furnaces)

SAVEL'Y, B.I., inzh.; TABASOV, D.I., inzh.; PIKHOMIROV, Ye.N., inzh.;
SINOV, B.V., kand. tekhn. nauk; SUPRUN, I.Ye., inzh.;

... of blast damages with horse removal in the liquid
... Biol. ... (MIRA 14:10)
(...)

VOLOSHIN, A.I.; BOGOYAVLENSKIY, K.A.; AKHTYRCHENKO, A.M.; TURIK, I.A.;
ZHIDKO, A.S.; LYALYUK, V.S.; GABAY, L.I.; ONOPRIYENKO, V.P.;
STARSHINOV, B.N.; BABIY, A.A.; SAVELOV, N.I.; Primali
uchastiye: TORIANIK, E.I.; VASIL'YEV, Yu.S.; SHEMEL', T.I.;
SENYUTA, V.I.; BONDARENKO, I.P.; AMSTISLAVSKIY, D.M.;
ANDRIANOV, Ye.G.; SERGEYEV, G.N.; ZAMAKHOVSKIY, M.A.;
LYUKIMSON, M.O.; IVONIN, V.K.; TSIMBAL, G.I.; SEN'KO, G.Ye.;
KONAREVA, N.V.; SOLODKIY, Yu.L.; LUKASHOV, G.G.; TARASOV, D.A.;
GORBANEV, Ya.S.; SUPRUN, I.Ye.; TIKHOMIROV, Ye.I.; KONONENKO, P.A.;
PROKOPOV, V.N.; GULYGA, D.V.; PLISKANOVSKIY, S.T.; PONOMAREVA, K.Ye.

Effect of the length of coking on coke quality and the performance
of blast furnaces. Koks i khim. no.12:26-32 '61.

(MIRA 15:2)

1. Ukrainskiy uglekhimicheskiy institut (for Voloshin,
Bogoyavlenskiy, Akhtyrchenko, Turik, Zhidko, Lyalyuk, Torianik,
Vasil'yev, Shemel'). 2. Zhdanovskiye koksokhimicheskiy zavod
(for Gabay, Senyuta, Bondarenko, Amstislavskiy, Andrianov,
Sergeyev, Zamakhovskiy, Lyukimson, Ivonin, Tsimbal). 3. Ural'skiy
nauchno-issledovatel'skiy institut chernykh metallov (for
Onopriyenko, Starshinov, Babiy, Sen'ko, Konareva, Solodkiy).
4. Zavod "Azovstal'" (for Savelov, Lukashov, Tarasov, Gorbanev,
Suprun, Tikhomirov, Kononenko, Prokopov, Gulyga, Pliskanovskiy,
Ponomareva).

(Coke)

(Blast furnaces)

LUKASHOV, G.G., inzh.; SAVELOV, N.I., inzh.; FLISKANOVSKIY, S.T., inzh.

Blast furnace operation with air tuyeres of varying diameter.
Stal' 23 no.3:198-201 Mr '63. (MIRA 16:5)
(Blast furnaces--Design and construction)

STARSHINOV, B.N.; SIMITSKIY, V.D.; SEN'KO, G.Ye.; GULYGA, D.V.; BABIY, A.A.;
KHORUZHIY, A.G.; Primali uchastnye: OSTROUKHOV, M.Ya.; SVELOV,
N.I.; PLISKANOVSKIY, S.T.; MOISEYEV, Yu.G.; LAVRENT'YEV, M.L.;
TARASOV, F.P.; ZAGREBA, A.V.; KAMENEV, R.D.; TKACHENKO, A.A.;
FREYDIN, L.M.; LUKIN, P.G.; POPOV, Yu.A.; MISHIN, P.P.; KARACHENTSEV,
M.D.; DOLMATOV, V.A.; AYUKOV, A.S.; PALAGUTA, V.P.; VYAZOVSKIY, Yu.V.;
SOLODKIY, Yu.A.; KONAREVA, N.V.; SAPRONOV, Yu.V.; SINITSKAYA, S.K.;
SAPRONOV, B.V.; LEKAREV, V.L.; STOLYAR, V.V.; PROKHORENKO, Z.A.;
BANDINA, Ye.Ye.

Results of the first year of operation of large capacity blast
furnaces. Sbor. trud. UNIIM no.11:34-46 '65.

(MIRA 18:11)

TIMOFEYEV, N.S., polkovnik med. sluzhby, dots.; SAVELOV, V.M., mayor med. sluzhby

Extensive pneumonectomy (regional resection) in unilateral lung suppurations. Voen.-med. zhur. no.6:28-31 Je '58. (MIRA 12:7)

(PNEUMONECTOMY, in various dis unilateral, suppurative lung dis. (Rus))

(LUNG DISEASES, surg. pneumonectomy in unilateral suppurative dis (Rus))

L 13055-63

EWT(1)/BDS AFFTC/ASD

ACCESSION NR: AT3002994

57
55
S/2927/62/000/000/0131/0135

AUTHOR: Gordiyenko, T. I.; Grotte, A. M.; Ivanchenko, I. A.; Savelov, V. N.; Yanovich, V. S.

TITLE: Peculiarities in obtaining a high-gain triode structure [Report of the All-Union Conference on Semiconductor Devices held in Tashkent from 2 to 7 October 1961]

SOURCE: Elektronno-dy*rochny*ye perekhody* v poluprovodnikakh. Tashkent, Izd-vo AN UzSSR, 1962, 131-135

TOPIC TAGS: germanium phototriode, high-gain germanium phototriode

ABSTRACT: Some peculiarities of the manufacturing process of high-sensitivity (1-10 amp/lum) Ge phototriodes with a gain of 100-300 and 40-50 per cent output efficiency are reported. Temperature conditions observed in the postalloyed diffusion process (formation of p-n-p structure) are reported: maximum temperature 760C, 2-hr annealing at 620C, cooling at the rate of 10C per min within 760-620C. A method of calculating the base thickness (6.5 microns) is set forth. Selection of the resistivity of source material (Ge with 3 ohm.cm and 0.7-mm diffusion

Card 1/2

L 13055-63

ACCESSION NR: AT3002994

length) is discussed. In conclusion, an electrolytic method for cutting Ge is recommended: anode dissolution of Ge in water of 200-500 kohms with a 100-micron W filament as cathode. Orig. art. has: 1 figure and 9 formulas.

ASSOCIATION: Institut avtomatiki Gosplana UkrSSR (Institute of Automation, Gosplan, UkrSSR); Akademiya nauk SSSR (Academy of Sciences SSSR); Akademiya nauk Uzbekskoy SSR (Academy of Sciences UzSSR); Tashkentskiy gosudarstvennyy universitet (Tashkent State University)

SUBMITTED: 00

DATE ACQ: 15May63

ENCL: 00

SUB CODE: 00

NO REF SOV: 000

OTHER: 000

Card 2/2

L 22131-65 EWT(d)/EWT(1)/EWG(k)/EEG(k)-2/T/EEG(b)-2/EWA(h) Pz-4/Pz-6/Peb/
Po-4/Pq-4/Pg-4/Pk-4/P1-4 IJP(c)/RAEM(a)/ESD(dp) BC

ACCESSION NR: AP5001745

S/0302/64/000/004/0054/0056

AUTHOR: Gorbach, T. Ya.; Krolevets, K. M.; Savelov, V. N. B

TITLE: Position-sensitive photodiodes for servo systems 15

SOURCE: Avtomatika i priborostroyeniye, no. 4, 1964, 54-56

TOPIC TAGS: photodiode, servo system, position sensitive photodiode

ABSTRACT: A new composite photodiode (see Enclosure 1) essentially consists of a 4x4-mm np-junction Ge or Si plate cross-cut by 0.1-0.3-mm-wide incisions into four equal parts. The photodiode is connected into a 2-bridge circuit with a reverse bias voltage E applied to all of its parts. When the light spot is in the center, the output signal is zero. When the spot leaves the center, output signals U_x and U_y proportional to the travel along the axes appear. Characteristics obtained with an illumination of 4,500 luxes, a spot of 1.5-mm diameter, a load resistance of 22 kohms (Ge) or 90 kohms (Si), and $E = 5.75$ v are reported for 6

Card 1/3

L 22131-65

ACCESSION NR: AP5001745

specimens; values of the dark current, sensitivity, and slope of characteristic are given. Zero-point drift was found to be within ± 0.4 microns in a test of a few dozen photodiodes for 15-20 hrs. Orig. art. has: 3 figures, 1 formula, and 1 table.

ASSOCIATION: none

SUBMITTED: 00

ENCL: 01

SUB CODE: EC

NO REF SOV: 000

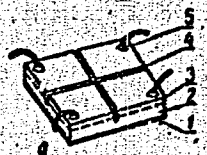
OTHER: 000

Card 2/3

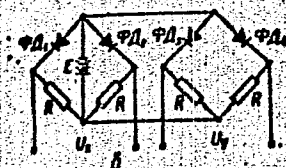
L 22131-65

ACCESSION NR: AP5001745

ENCLOSURE: 01



A 4-part position-sensitive photodiode for servo systems



Card 3/3

DREMLYUGA, P.I., inzh.; BURDEYNYUK, I.A., inzh.; SAVELOV, V.P., inzh.;
TABORISKIY, M.L., inzh.

Experience in the installation of the first model of the TP-100
boiler. Elek. sta. 33 no.6:39-42 Je '62. (MIRA 15:7)
(Boilers)

BAKANOV, R.A.; BURYAKOV, Yu.F.; VAKHMISTROV, V.V.; VOLODIN, N.V.;
KUROCHKIN, V.D.; SAVELOV, V.P.; SUDZILOVSKIY, G.A.;
MARCHENKO, V.G., red.; BALASHOVA, M.V., red.-leksikograf;
BERDNIKOVA, N.D., red.-leksikograf; CHAPAYEVA, R.I.,
tekhn. red.

[Concise English-Russian and Russian-English military
dictionary] Kratkii anglo-russkii i russko-angliiskii voen-
nyi slovar'. Moskva, Voen.izd-vo M-va oborony SSSR, 1963.
560 p. (MIRA 16:4)

(Military art and science--Dictionaries)
(English language--Dictionaries--Russian)
(Russian language--Dictionaries--English)

PROKOP'YEV, V.I., doktor tekhnicheskikh nauk; SAVELOVA, A.A., kandidat tekhnicheskikh nauk.

The part of Moscow Technical College in the development of the theory of mechanisms and machines. [Trudy] M V T U no.65:5-10 '55. (MLBA 9:8)

(Mechanics, Analytic)

PETROV, G.N., kand.tekhn.nauk; SAVELDVA, A.A., kand.tekhn.nauk

Balancing unit for checking the unbalance of assembled electric motors.
Izv.vys.ucheb. zav.; machinostr. no.3:82-96 '60. (MIRA 14:3)

1. Moskovskoye vyssheye tekhnicheskoye uchilishche imeni Baumana.
(Balancing of machinery)

SAVELOVA, A.A., kand.tekhn.nauk, dotsent

Dynamic balancing of standard rotors at operating speeds. (MIRA 11:9)
[Trudy] MVTU no.77:117-125 '58.
(Balancing of machinery)

SAVELOVA, K.A.

MYSYUTKINA, M.V., kandidat sel'skokhozyaystvennykh nauk; SAVELOVA, K.A.,
kandidat sel'skokhozyaystvennykh nauk.

Changes in the chemical composition of the body and increase in
weight of Kholmogory heifers as influenced by age and type of
feeding. Trudy VNIIEK 3:24-34 '56. (MLRA 10:4)
(Calves--Feeding and feeding stuffs)

SAYELOVA, K.A.

MYSYUTKINA, M.V., kandidat sel'skokhozyaystvennykh nauk; SAYELOVA, K.A.

Substance and energy metabolism in Kholmogory heifers as influenced
by age and type of feeding. Trudy VNIIR 3:71-110 '56.
(Cows-Feeding and feeding stuffs) (Metabolism) (MLHA 10:4)

~~МЫСЮТКИНА, М.В.~~ SAVELOVA, K.A.

MYSYUTKINA, M.V., kandidat sel'skokhozyaystvennykh nauk; SAVELOVA, K.A.

Protein-vitamin paste is a valuable calf feed. Trudy VNIIK 3:279-
299 '56. (MLRA 10:4)

(Calves--Feeding and feeding stuffs)

ZAKHAROV, Ye.D.; PETROVA, A.A.; ZHIKHAREV, Yu.V.; SAVELOVA, N.M.

Effect of chemical composition on the hardenability of the V95
alloy. Metalloved. i term. obr. met. no.12:16-21 D'63.
(MIRA 17:2)

SAVELOVA, V. A. Cand Med Sci -- (diss) "Experimental basis for ~~the~~ ^{ing} determination
of the maximum permissible concentration of caprolactam ~~in~~ in the water
of reservoirs." Mos, 1957. 10 pp (1st Mos Order of Lenin ~~Med~~ Med Inst
im I. M. Sechenov), 200 copies (KL, 5-58, 103)

SAVELOVA, V.A.; RUSSKIKH, V.V.

Experimental data for the hygienic permissibility of nitrocyclohexane
in water reservoirs. Gig. i san. 26 no.5:9-14 My '61. (MIRA 15:4)

1. Iz Moskovskogo nauchno-issledovatel'skogo instituta gigiyeny
imeni F.F.Erismana Ministerstva zdravookhraneniya RSFSR.
(WATER---POLLUTION) (CYCLOHEXANE)

SAVELOVA, V.A.; BRUK, Ye.S.; KLIMKINA, N.V.; RUSSKIKH, V.V.

Experimental basis for the permissible concentration of cyclohexanol
in bodies of water. San.okhr.vod.ot zagr.prom.stoch.vod no.5:
78-93 '62. (MIRA 17:6)

1. Moskovskiy nauchno-issledovatel'skiy institut sanitarii i
gigiyeny imeni F.F.Erismana.

SAVELOVA, V.A.; RUSSKIKH, V.V.

Experimental basis for standardizing the concentration of
nitrocyclohexane in bodies of water. San.okhr.vod.ot zagr.prom.
stoch.vod no.5:348-355 '62. (MIRA 17:6)

1. Moskovskiy nauchno-issledovatel'skiy institut gigiyeny imeni
F.F.Erismana.