

GOLIK, A.Z. [Holyk, O.Z.]; SHIMANSKIY, Yu.I. [Shymans'kyi, IU.I.]; KOBIYCHUK, N.M.
[Kobiichuk, N.M.]

Compressibility of isoviscous substances [with summary in English].
Ukr.fiz.zhur. 3 no.4:537-541 J1-Ag '58. (MIRA 11:12)

1. Kiyevskiy gosudarstvennyy universitet.
(Compressibility)

GOLIK, A.Z.; MOCHARNYUK, R.F.

Physical properties and structure of normal alcohol solutions
in acetone. Ukr. khim. zhur. 24 no.1:29-32 '58. (MIRA 11:4)

L.Kiyevskiy gosudarstvennyy universitet im. T.G. Shevchenko.
(Alcohols) (Acetone) (Solution (Chemistry))

KOTORLENKO, L.A.; GOLIK, A.Z.; KOVNERISTAYA, A.S.

Viscosity and electric conductivity of lithium chloride solutions in
alcohols. Ukr.khim.zhur. 24 no.5:618-625 ' 58. (MIRA 12:1)

1. Kiyevskiy gosudarstvennyy universitet imeni T.G. Shevchenko.
(Lithium chloride) (Solution (Chemistry))

GOLIK, A.Z.; SOLOMKO, V.P.

Investigation of the physical properties of the water - acetone -
alcohol system. Part 1: Water - acetone-ethanol system. Ukr.khim.zhur.
24 no.6:734-740 '58.
(MIRA 12:3)

1. Kiyevskiy gosudarstvennyy universitet im. T.G. Shevchenko.
(Acetone) (Ethyl alcohol) (Systems (Chemistry))

GOLIK, A.Z. [Holyk, O.Z.

Viscosity and electrical conductivity of zinc and cadmium
amalgams. Part 2. Ukr.fiz.zhur. 4 no.4:421-426 J1-Ag '59.
(MIRA 13:4)

1. Kiyevskiy gosudarstvennyy universitet im. P.O. Shevchenko.
(Amalgams) (Zinc) (Cadmium)

GOLIK, A.Z. [Holyk, O.Z.]; SHIMANSKAYA, Ye.T. [Shymanska, O.T.]

Investigation of the critical state of substances by Isoperic method. Part 2. Temperature dependence of the density of hexane near the critical point. Ukr.fiz.zhur. 4 no.6:769-788 1959. (MIRA 14:10)

1. Kiyevskiy gosudarstvennyy universitet im. I.I. Shevchenko.
(Hexane--Thermal properties)

GOLIK, A.Z.; SOLOMKO, V.P.

Investigation of the physical properties of the system water-
acetone-alcohols. Part 2: System water-acetone-butanol. Ukr.
khim.zhur. 25 no.1:40-44 '59. (MIRA 12:4)

1. Kiyevskiy gosudarstvennyy universitet in. T.G. Shevchenko.
(Water) (Acetone) (Butyl alcohol)

RUSSIAN BIBLIOGRAPHY 207/5469

Sovetskaniye po kriticheskim yavleniyam i flyuktuatsiyam v rastvorakh. Moscow, 1960.

Kriticheskiye yavleniya i flyuktuatsii v rastvorakh; teziy i doklady, yanvar' 1960 g. (Critical Phenomena and Fluctuations in Solution; Transactions of the Conference, January 1960) Moscow, Izd-vo AN SSSR, 1960. 190 p. 2,500 copies printed.

Sponsoring Agencies: Akademiya nauk SSSR. Otdeleniye khimicheskikh nauk. Moskvozkiy gosudarstvennyy universitet im. M. V. Lomonosova. Izdaticheskii fakul'tet.

Responsible Ed.: M. I. Shakhparonov, Doctor of Chemical Sciences, Professor; Ed. of Publishing House: E. S. Dragunov; Tech. Ed.: S. G. Tikhomirova.

PURPOSE: This collection of articles is intended for scientific personnel concerned with chemistry, physics, and heat power engineering.

Card 1/9

Critical Phenomena and Fluctuations

SOV/5-83

CONTENTS. The book contains 8 of the 23 reports read at the Conference on Critical Phenomena and Fluctuations in Leningrad organized by the Chemical Division of the Soviet State University, January 20-23, 1980. The reports deal in general with investigations carried out in recent years by Soviet scientists in the fields of criticality and heat pump operation. The Organizing Committee of the Conference was composed of Professor Kh. I. Akhmedov, A. L. Golik, I. R. Kiselevsky (Chairman), V. K. Sokolovskoy, A. V. Storonkin, I. L. Fisher, and M. I. Shaldparenov (Deputy Chairman). References accompany individual articles.

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Belokobyl, G. P., and N. V. Chikolodov [Laboratory of the Physical Chemistry of Solutions, Chemistry Division, Moscow State University named L. V. Lomonosov]. Raylovskaya
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Kolchakovskiy, I. R., and N. Ye. Kuzmanova [Laboratoriya vysokikh davleniy, VNIIP -- Laboratory of High-Pressure [Studies], Moscow State Design and Planning Scientific Research Institute of the Nitrogen Industry]. Diffusion of Liquid and Gaseous Solutions in the Critical Region

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Krichevskiy, I. R., and Yu. V. Tseldhanskaya [Laboratory of

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Department of Experimental Physics, Belarusian State University].
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Radlov, M. V., and I. V. Kirich [Department of Physical and
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nitskiy obshchestvenno-pedagogicheskiy institut -- Pedagogical Insti-
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Institute of Engineering]. Concerning the Diffusion in
the Critical Stratification Region

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Critical Phenomena and Fluctuations

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Critical Phenomena and Fluctuations

1971/1/09

Shkvarukhina, Ye. T., Ya. I. SMYKALOVA, and A. E. Golik (Laboratory of Molecular Physics, Division of Physics, Moscow State University imeni M. V. Sholokhovskiy). Investigation of the Critical State of Pure Substances by Taylor's Method

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Resolution of the Conference on Critical Phenomena and Fluctuations in Solutions

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62/612/14
10-15-61

Card 9/9

15.8500

25577
S/185/60/005/002/012/022
D274/D304

AUTHORS: Golyk, O.Z. and Cholpan, P.P.
TITLE: Molecular structure, compressibility, surface tension and viscosity of certain polysiloxanes
PERIODICAL: Ukrayins'kyy fizychnyy zhurnal, v. 5, no. 2, 1960, 242-250

TEXT: Polymethyl- and polyethylsiloxanes with linear molecules are experimentally studied, this article being a continuation of one of the authors previous works: O.Z. Golyk (Ref. 2: UkhZh, 23, no. 2, 139, 1957, and 2 articles in collaboration with others). From intensity curves of X-ray scattering, electron-density curves were constructed; these were used for determining the valence angles, the length of the chemical bond, and the packing of the molecules in the liquid state. The intensity curves, plotted on figures, show that polymethyl- and polyethylsiloxanes with linear molecules have a similar structure in the liquid state. The density, surface tension, compressibility and viscosity of these substances were

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D274/D304

Molecular structure...

investigated for a wide temperature range; figures and tables are given with the results of these investigations. For polymethylsiloxanes, the polytherms of surface tension and of viscosity are the higher, and those of compressibility - the lower, the higher the potential of intermolecular forces, and the higher the critical temperature of the substance. The surface tension is also in direct proportion with the size of the molecules. Adiabatic compressibility of polymethylsiloxanes was studied by means of an ultrasonic interferometer. The temperature dependence of viscosity follows an exponential law. The polytherms of surface tension and of viscosity in the case of polyethylsiloxanes, are also the higher, the higher the potential of intermolecular forces and the higher the critical temperature. The activation energy too, is in direct proportion with intermolecular potential and critical temperature. The viscosity of binary solutions of polymethylsiloxanes was also studied, and isoviscous substances were obtained; both the activation energy and also compressibility of the isoviscous substances is practically the same. This study gives additional proof of the correspondence between structure and intermolecular forces on the

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D274/D304

Molecular structure...

one hand, and surface tension, compressibility, and viscosity on the other. There are 9 figures, 4 tables and 3 references: 2 Soviet-bloc and 1 non-Soviet-bloc. The reference to the English-language publication reads as follows: H.S. Green, The molecular theory of fluids, Amsterdam, 1952; I.J. Kirkwood a. F.P. Buff, J. Chem. Phys., 17, 338, 1949; I.J. Kirkwood, F. P. Buff, H.S. Green, J. Chem. Phys., 17, 998, 1949.

ASSOCIATION: Kyvvs'kogo ordena Lenina universytetu im. T.G. Shevchenka (Kiyev Order of Lenin University im. T.G. Shevchenko), Department of Molecular Physics

SUBMITTED: October 1, 1959

Card 3/3

GOLIK, A.Z. [Holyk, O.Z.]; CHOLPAN, P.F. [Cholpan, P.P.]

Molecular structure and physical properties of some polysiloxanes. Part 2: Structure and physical properties of isoviscous polysiloxanes. Ukr. fiz. zhur. 5 no.6:843-849 N-D '60.
(MIRA 14:3)

1. Kiyevskiy ordena Lenina gosudarstvennyy universitet in. I.G. Shevchenko.

(Siloxanes)

GOLIK, A.Z. [Holyk, O.Z.]; CHOLPAN, P.F. [Cholpan, P.P.]

Molecular structure and physical properties of some polysiloxanes.
Part 3: Viscosity, compressibility, and structure of liquid cyclic
polysiloxanes. Ukr. fiz. zhur. 5 no.6:850-856 N-D '60.
(MIRA 14:3)

1. Kiyevskiy ordena Lenina gosudarstvennyy universitet in. T. G.
Shevchenko.

(Siloxanes)

SKRYSHEVSKIY, Anton Frantsevich; GOLIK, A.Z., prof., otv. red.;
DROZHZHIN, E.V., red.; OKOITAYA, Ye.D., tekhn. red.

[Diffraction of X rays, electrons, and neutrons in gases and
the molecular structure]Difraktsiia rentgenovskikh luchei,
elektronov i neutronov v gazakh i stroenie : molek. Kiev, 1^{zd-}
vo Kievskogo univ., 1961. 84 p. (MIRA 15:9)
(X rays--Diffraction) (Electron diffraction examination)
(Neutrons--Diffraction)

GOLIK, A.Z.; CHOLPAN, P.F.

Speed of ultrasound in some polysiloxanes. Akust.zhur. 7 no.1:33-39
'61. (MIRA 14:4)

1. Kiyevskiy gosudarstvennyy universitet.
(Siloxanes)
(Ultrasonic waves)

5/68: 6 /000/0217070/094
E-02/B158

AUTHORS: Shimanskaya Ye. T., Shimansky I. I., Golik A. B.

TITLE: Investigation of the critical state of pure substances by Tepler's method

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 11, 1961, 43, abstract 21B347 (Sb. "Kritich. yavleniya i flyuktuatsii v rastvorakh"; M., AN SSSR, 1960, 171 - 188)

TEXT: A method has been developed for the investigation of critical states, by means of which the density ρ of a substance can be measured in any point in a chamber (by the optical Tepler method) with long-time thermostating. The apparatus is described in detail. Heptane and hexane were examined. Density has a concentration gradient with respect to the chamber height Z and has a maximum at the meniscus. This maximum increases as the temperature approaches the point T_m at which the meniscus vanishes. With a steady temperature change rate, regular the $d\rho/dZ$ maximum is present on heating and absent on cooling (i. e., a hysteresis is observed). With irregular changes in temperature and long-time Card 1/1

Investigation of the critical

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E-02/B-18

(15 20 hr) thermostating, the $d\rho/dZ$ maximum is however present on heating as well as cooling; the maxima are then lower than in the case of steady heating. The $\rho(Z)$ curves are found by integrating $d\rho/dZ = f(Z)$. For $T > T_m$ they are S-shaped. In the lower part of the chamber density is higher, and in the upper part lower than critical. This is in full agreement with classical representations regarding the existence of a critical point and not a region, when allowing for the effect of gravitational field. The critical state is realized only in a narrow layer at the point where the meniscus vanishes. Above and below this layer the substance is not in a critical state although its temperature is critical. As the density difference throughout the chamber corresponds at the critical temperature to the equilibrium state then it must be assumed that displacement sometimes occurs, levelling the density and removing the system from the state of equilibrium. [Abstracter's note: Complete translation.]

Card 2/2

GOLIK, A.S.; BUKHOVSKIY, V.Ye.

Heat of vaporization, composition of vapors, and surface tension
of solutions of paraffins and alcohols. Ukr.khim.zhur. 27 no.5:
574-577 '61. (MIRA 14:9)

L. Kiyevskiy gosudarstvennyy universitet im. T.G. Shevchenko.
(Paraffins) (Alcohols)

GOLIK, A.S.; BABONOVSKIY, V.Ye.

Latent heat of vaporization of alcohols in acetone solutions.
Ukr.Khim.zhurn. 27 no.5:577-580 '61. (MIRA 14:9)

1. Kiyevskiy gosudarstvennyy universitet im. T.G. Shevchenko.
(Alcohols) (Heat of vaporization)

15 870

S/073/6/1017/06/001/20
R110/B117

AUTHORS: Golik, A. Z., Cholpan, P. F., Ivanova, L. I.

TITLE: Investigation of some physical properties of polymers of phenyl siloxane

PERIODICAL: Ukrainskiy khimicheskij zhurnal, v. 27, no. 1, 1971, pp. 754 - 759

TEXT: This work is an investigation of viscosity, adiabatic speed of sound and adiabatic compressibility of 1,5-dimethylphenyl-3-methylphenyltrisiloxane $(CH_3)_2C_6H_4SiOSi(C_6H_4CH_3)OSiC_6H_4(CH_3)_2$, 1,5-dimethyl-3-methylphenyltrisiloxane $(CH_3)_3SiOSi(C_6H_4CH_3)OSi(CH_3)_2$, 1,5-dimethyl-3-methylphenyltetrasiloxane $(CH_3)_3Si[OSiCH_2C_6H_4]_2OSi(CH_3)_2$, polymer 1 (P1) $(CH_3)_3Si[OSiCH_2C_6H_4]_3OSi(CH_3)_2$, polymer 2 (P2) $(CH_3)_3Si[OSiCH_2C_6H_4]_4OSi(CH_3)_2$, polymer 3 (P3) $(CH_3)_3Si[OSi(C_6H_4)]_3OSi(CH_3)_2$.

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E11/011

Investigation of some physical...

$-\text{OSi}(\text{CH}_3)_3$; polymer 1 (P1) $(\text{CH}_3)_3\text{Si}[\text{OSi}(\text{CH}_3)_2]_n\text{OSi}(\text{CH}_3)_3$

structure of the polymethyl phenyl siloxane was determined and their molecular weight was determined. The rate of flow of the polymer with temperature according to the experimental data. The polymers of the viscosities of P1 and P2 showed a similar behavior. Only the first three substances correspond to the formula of the polymer.

$\eta = C/(V \cdot t)$ (Table 1) Between 10 and 100°C, the viscosity of the polymer is increasing temperature. Ultrasonic speed was measured using an interferometer by I. G. Mikhalov (Siberian Federal University). The speed of sound was calculated according to the formula $\lambda = v \cdot t$, where λ is the wavelength of ultrasonic wave, v - generator frequency, t - time. The length of the trimer with 3 C_2H_5 groups (A), of the tetramer with 4 C_2H_5 groups (B), of the methyl trimer (C) and of the tetramer (D) were determined. The length of the tetramer with two C_2H_5 groups determined according to the literature with the polymer of A. Using the data of the literature...

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Investigation of some physical...

polytherm of D lies above that of E. In P1, P2, and P3, a slight deviation from linearity was found at 40°C (near their solidification point). Adiabatic compressibility was calculated by; $\beta = 1/a^2 \rho$ (a = ultrasonic speed, ρ = density, β = adiabatic compressibility. It is inversely proportional to the number of phenyl radicals. From the linear dependence; $\ln \beta = f(t)$, $\beta = \beta_0 \exp(T/C)$ is derived; T = experimental temperature, β_0 = adiabatic compressibility at $T = 0$, C = constant (Table 2). There are 10 figures, 2 tables, and 3 Soviet references.

ASSOCIATION: Kiyevskiy gosudarstvennyy universitet im. T. G. Shevchenko
(Kiyev State University imeni T. G. Shevchenko)

SUBMITTED: September 29, 1960

Card 3/5

GOLIK, A.Z.; KLASSEN, I.F.; KUCHAR, G.M.

Speed of propagation of ultrasonic waves in certain zinc and cadmium
amalgams. Akust.zhur. 7 no.2:258-260 '61. (MIRA 14:7)

1. Kiyevskiy gosudarstvennyy universitet.
(Ultrasonic waves--Speed) (Zinc amalgam)
(Cadmium amalgam)

GOLIK, A.Z., prof., otv. red.; ROSECHINA, G.P., dots., otv. red.;
MIRONETS, Ye.M., red.; KHCHENKOVSENA, T.I., tekhn. red.

[Structure and physical properties of matter in the liquid
state; materials] Stroenie i fizicheskie svoistva veshche-
stva v zhidkom sostoianii; materialy. Kiev, Izd-vo Kievskogo
univ., 1962. 146 p. (MIRA 15:9)

1. Soverchcheniye posvyashchennoye probleme zhidkogo sostoyaniya
veshchestva. 4th, Kiev, 1959.

(Liquids)

GOLIK, A.Z.

STRUCTURE AND PHYSICAL PROPERTIES OF MATTER IN A LIQUID STATE
reports read at the 4th Conference convened in KIEV from 1 to 5 June
1969, published by the Publisher House of KIEV University, KIEV,
USSR, 1962

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GOLIK, A.Z.

STRUCTURE AND PHYSICAL PROPERTIES OF MATTER IN A LIQUID STATE
reports read at the 4th Conference convened in KIEV from 1 to 5 June
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USSR, 1969

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ROSHCHINA, Galina Petrovna; GOLIK, A.Z., prof., otv. red.; VERNIG,
V.I., red.; ~~POKREKOV, T.I.~~, tekhn. red.

[Molecular scattering of light in gases] Molekuliarnoe ras-
seyaniye sveta v gazakh. Kiev, Izd-vo Kievskogo univ., 1972.
37 p. (MIRA 15:11)
(Raman effect) (Scattering (Optic.)) (Light--Scattering)

GOLIK, A.Z., prof., otv. red.; LOSHCINA, G.F., dotr., otv. red.;
- MIRONETS, Ye.M., red.; KHOKHANGVSKAYA, T.I., tekhn.red.

[Structure and physical properties of matter in the liquid
state; materials] Stroenie i fizicheskie svoistva veshchestva
v zhidkom sostoianii; materialy. Kiev, Izd-vo Kievskogo univ.,
1962. 146 p. (MIRA 15:9)

1. Soveshchaniye posvyashchennoye probleme zhidkogo sostoyaniya
veshchestva. 4th, Kiev, 1959.

(Liquids)

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S/645/62/000/000/006/010
D207/D308

AUTHOR: Golik, A.M. and Klanson, I.F.

TITLE: Relationship of the viscosity and electrical conductivity with the structure of zinc and cadmium amalgams

SOURCE: Stroeniye i fizicheskiye svoystva veshchestva v zhidkoy sostoyanii; materialy IV soveshch. po probl. zhidkogo sost. veshchestva, v Kiyeve 1959 g. Kiev, Izd-vo Kiev. univ., 1962, 96-100

NOTE: The purpose of this work was to check the hypothesis that both the first (shear) viscosity and the electrical conductivity of liquid metals and their solutions are related to the short-range order. The viscosity, density and electrical conductivity of zinc and cadmium amalgams were measured at temperatures up to 350°C in a wide range of compositions. Amalgams with the same viscosity had the same short-range order but different electrical conductivities. Amalgams with the same electrical conductivity had practically the

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Relationship of the viscosity ...

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D207/0308

same density but different viscosities. The results confirm the hypothesis cited above. There are 4 figures and 1 table.

ASSOCIATION: Kiyevskiy gosudarstvennyy universitet (Kiev State University)

Card 2/2

GOLIK, A.Z.; RYNDICH, N.A.; KUCHINKA, M.Yu.; ANDRIYENKO, S.S.

Thermomechanical properties of cord made from polycaprolactam.
Khim.volok. no.2:23-25 '62. (MIRA 15:4)

1. Kiyevskiy gosudarstvennyy universitet im. Shevchenko.
(Textile fibers, Synthetic) (Azepinone)

GOLIK, A.Z., [Holyk, O.Z.]; CHOLPAN, P.F. [Cholpan, P.P.]

Molecular structure and physical properties of certain siloxanes.
Part 4. Density of two-component solutions of liquid siloxanes.
Ukr.fiz.zhur. 7 no.5:549-553 My '62. (MIRA 16:1)

1. Kiyevskiy gosudarstvennyy universitet im. Shevchenko.
(Siloxanes)

GOLIK, A.Z. [Holyk, O.Z.]; CHOLPAN, P.F. [Cholpan, P.P.]

Molecular structure and physical properties of certain siloxanes.
Part 5. Surface tension and molecular interaction of liquid
siloxanes. Ukr.fiz.zhur. 7 no.5:554-558 My '62. (MIRA 16:1)

1. Kiyevskiy gosudarstvennyy universitet im. Shevchenko.
(Siloxanes)

GOLIK, A.Z. [Holyk, O.Z.]; CHOLPAN, P.F. [Cholpan, P.P.]

Density and short-range coordination of certain liquids. Ukr.
fiz.zhur. 7 no.5:559-562 My '62. (MIRA 16:1)

1. Kiyevskiy gosudarstvennyy universitet im. Shevchenko.
(Liquids)

GOLIK, A.Z.

Present stage and problems of the physics of liquids. Ukr.fiz.
zhur. 7 no.7:685-686 J1 '62. (MIRA 15:12)
(Liquids)

S/185/62/007/008/001/008
D234/D303

3.7

AUTHOR: Golik, A.Z.

TITLE: Connection of compressibility and sheer viscosity
with the structure of liquid state of matter

PERIODICAL: Ukrayins'kyy fizychnyy zhurnal, v. 7, no. 8, 1962,
806 - 811

TEXT: The author gives the experimental values of compressibilities and shear viscosities of several paraffins, methylsiloxanes and alcohols, obtained by him in collaboration with P.F. Cholpan and I.I. Ivanova. Graphs of temperature dependence of these quantities are given for all substances mentioned. The compressibility was determined from data on density and ultrasound velocity, the latter being measured by I.T. Mikhaylov's interferometer. The empirical formula for the temperature dependence of the compressibility $\beta = \beta_0 \exp[\alpha T]$ is found to agree with experiment better than the expression given by the cell theory. The temperature dependence of viscosity is described by Ya.I. Frenkel's formula $\eta = A \exp$
Card 1/2

Connection of compressibility and ...

S/185/52/007/008/001/008
D234/D308

[B/RT]. A table of critical temperatures and the values of β_0 , α , β and A is included. It is found that there is a correlation between β and α . Properties of isoviscous substances for each group were studied. The author gives as an example the graph of intensity of scattered X-rays, plotted against the scattering angle, for $(\text{CH}_3)_{10}\text{Si}_4\text{O}_3$ and the solution consisting of 48.73% of $(\text{CH}_3)_8\text{Si}_3\text{O}_2$ and 51.27% of $(\text{CH}_3)_{12}\text{Si}_3\text{O}_4$, isoviscous with the former. All experimental points are situated on the same curve, which indicates that the isoviscous substances have the same structure. There is 1 table and 8 figures.

ASSOCIATION: Kiyevskiy universitet (Kiev University)

Card 2/2

BARANOVSKIY, V.Ye.; SHIMANSKIY, Yu.I.; GOLIK, A.Z.

Heat of evaporation of the ternary system ethyl alcohol-butyl alcohol - acetone. Ukr.khim.zhur. 28 no.4:484-486 '62,

(MIRA 15:8)

1. Kiyevskiy gosudarstvennyy universitet imeni T.G.Shevchenko.
(Ethyl alcohol) (Butyl alcohol) (Acetone)
(Heat of evaporation)

GOLIK, A.Z.; RYNDICH, N.A.; NUZHNYI, V.M.; GALAGAN, Yu.

Velocity of ultrasound and the compressibility of alcohol -
acetone - water solutions. Ukr.khim.zhur. 28 no.4:506-510 '62.
(MIRA 15:8)

1. Kiyevskiy gosudarstvennyy universitet imeni T.G.Shevchenko.
(Alcohols) (Acetone) (Ultrasonic waves—Speed)

GOLIK, A.Z.; IVANOVA, I.I.

Molecular structure, density, compressibility, and shearing
viscosity of n.paraffins in the liquid state. Zhur.fiz.khim. 36
no.8:1768-1770 Ag '62. (MIRA 15:3)

1. Kiyevskiy gosudarstvennyy universitet.
(Liquids) (Paraffins)

GOLIK, A.Z. [Holyk, O.Z.]; KUCHINKA, M.Yu. [Kuchynka, M. IU]

Temperature-time dependence of the strength of polymers at a
constant tension rate. Ukr. fiz. zhur. 8 no.4:479-486 Ap '63.
(MIRA 16:8)

1. Kiyevskiy gosudarstvennyy universitet im. Shevchenko,
(Polymers--Testing)

BARANOVSKIY, V.Ye., COLIK, A.E.

Latent heat of vaporization of water-alcohol solutions, Ukr.
khim. zhur. 29 no.2:133-141, 1953. (MIRA 16:5)

1. Kiyevskiy gosudarstvennyy universitet im. T.G. Shevchenko.
(Heat of evaporation) (Alcohols)

GOLIK, A.Z.; ADAMENKO, I.I.; SHOLPAN, P.F.

Effect of molecular interaction on the compressibility and
viscosity of liquids. Ukr. fiz. zhur. 9 no.4:413-416 Ap '64.
(MIRA 17:8)

1. Kiyevskiy gosudarstvennyy universitet.

1. The first part of the document discusses the importance of maintaining accurate records of all activities and the need for a systematic approach to data collection and analysis. It emphasizes the role of the analyst in identifying and interpreting patterns in the data.

2. The second part of the document describes the various methods used to collect and analyze data, including interviews, surveys, and the use of statistical techniques. It also discusses the importance of maintaining the confidentiality of the data and the need for a secure environment for analysis.

3. The third part of the document discusses the importance of maintaining accurate records of all activities and the need for a systematic approach to data collection and analysis. It emphasizes the role of the analyst in identifying and interpreting patterns in the data.

ALL INFORMATION CONTAINED
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L 51442-65 EWT(m)/EPF(c) Pr. A RM

ACCESSION NR: AP5011070

UR/0185/65/010/004/0443/0449

AUTHOR: Holyk, O. Z. (Golik, A. Z.); Adamenko, I. I.

TITLE: Compressibility and molecular structure of liquids. I. Compressibility of n-paraffins and of their mutual solutions

SOURCE: Ukrayins'kyi fizychnyy zhurnal, v. 10, no. 4, 1965, 443-449

TOPIC TAGS: n-paraffin, molecular structure, compressibility, liquid state, activation energy, viscous flow, intermolecular force

ABSTRACT: The authors investigate the compressibility of liquids having an identical molecular structure and the same type of intermolecular forces (the n-paraffins: n-heptane, n-octane, n-nonane, n-undecane and n-dodecane). It is shown that the compressibility polytherms of these liquids lie the lower the deeper the potential well on the molecular interaction curve and the larger the activation energy of viscous flow. It is also shown that under certain conditions it is possible to attain coincidence of the polytherms of compressibility of solutions of paraffins and pure substances or other solutions of paraffins of different composi-

Card 1/2

L 51442-65

ACCESSION NR: AP5011070

tions (these substances are called iso-compressible). Iso-compressible substances have identical activation energy of viscous flow and identical energy of intermolecular interaction. The adiabatic compressibility polytherms of the investigated normal paraffins are well described by the empirical formula $\beta_{ad} = \beta_0 \exp \alpha T$ in which the constant α is inversely proportional to the viscous-flow activation energy. The dependence of the adiabatic compressibility on the potential of the intermolecular interaction is in good agreement with modern statistical and model theories of liquids. Orig. art. has: 5 figures, 6 formulas, and 4 tables.

ASSOCIATION: Kyivskyy derzhuniversitytet im. T. G. Shevchenka [Kiyevskiy gosudarstvennyy universitet im. T. G. Shevchenko] (Kiev State University)

SUBMITTED: 21 Nov 64

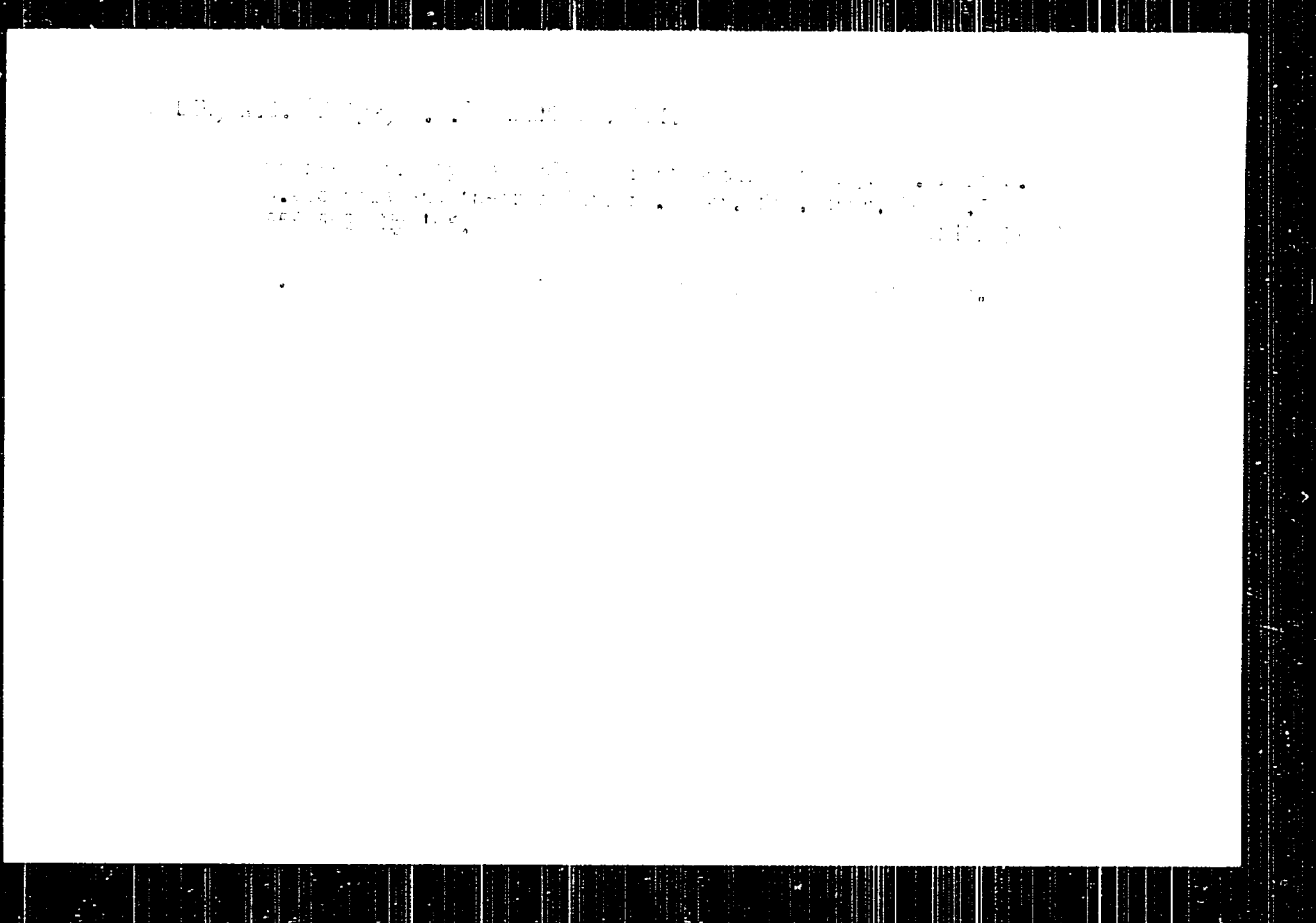
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NR REF SGV: 003

OTHER: 003

me
Card 2/2



ACC NR: AP7004553

SOURCE CODE: UR/0185/66/011/007/0797/9801

AUTHOR: Golik, A. Z.; Chelpan, P. P.; Tarasenko, O. V.

ORG: Kiev State University Im. T.H. Shevchenko (Kyivs'kyy derzhunivorsytet)

TITLE: Velocity of ultrasonic vibrations and compressibility of liquid siloxanes

SOURCE: Ukrayins'kyy fizychnyy zhurnal, v. 11, no. 7, 1966, 797-801

TOPIC TAGS: siloxane, temperature dependence, ultrasonic vibration

ABSTRACT: The authors investigated the temperature dependence (within the range of 0 - 200°C) between the velocity of ultrasonic vibrations and the adiabatic compressibility of linear methylsiloxanes - octamethyltrisiloxane, decamethyltetrasiloxane, dodecamethylpentasiloxane, cyclic methylsiloxanes - octamethylcyclotetrasiloxane, decamethylcyclopentasiloxane, and methylphenylsiloxanes - heptamethylphenyltrisiloxane, pentamethyltriphenyltrisiloxane, octamethyldiphenyltetrasiloxane.

It is determined that the temperature dependence of ultrasonic velocity at high temperatures deviates from the linear dependence. The adiabatic compressibility obeys an exponential law over a small range of temperatures only. It is shown that the compressibility of siloxanes decreases with the increase of the intermolecular force potential and the co-ordination number.

Orig. art. has: 4 figures, 3 formulas and 2 tables. [JPRS: 57.333]

SUB CODE: 20,07 / SUBM DATE: 11Dec65 / ORIG REF: 009

Card 1/1

GOLIK, P.K., vrach

Simplified apparatus for the simultaneous injection of oxygen
and solutions. Zdrav.Kazakh. 17 no.9:48-50 '57.

(MIRA 12:6)

1. Iz oblastnogo kozhno-venerologicheskogo dispansera Severo-
Kazakhstanskoy oblasti Kazakhstoy SSR.

(MEDICAL INSTRUMENTS AND APPARATUS) (INJECTIONS, HYPODERMIC)

65-58-6-4/43

AUTHOR: Golik, G., Senior Inspector-Pilot, DCSAAF Republic Committee of the Ukraine (Kyiv) (Respublikanskiy komitet DCSAAF Ukrainy)

TITLE: Model-airplane Builders Prepared for Sports Combat (Avtomodelisty gotovy k sportivnoy bor'be)

PERIODICAL: Vyzhiv. model., 1958, No. 6, p. 2 (USSR)

ABSTRACT: The author states that teams of some 270,000 model airplane builders are now being trained by 4,000 public instructors in DCSAAF primary organizations in the Ukraine. Personalities mentioned include: USSR champion Ye. Kondratenko, N. Dem'yachenko, Ye. Kucherenko, Yu. Usik, M. Chernikasskiy, V. Sheremet. In June and July (1958), 22,000 model airplane builders will compete at the Spontaneous Games.

ASSOCIATION: DCSAAF Republic Committee of the Ukraine

1. Airplane-model building

Card 1/1

GOLIK, G.

At gatherings. Kryl. rod. 14 no.2:18 F 163.

(MIRA 16:4)

1. Nachal'nik otdela aviatsionnoy podgotovki respublikanskogo komiteta Dobrovol'nogo obshchestva sodeystviya armii, aviatsii i flotu.

(Ukraine--Parachuting)

ACC NR: AP601131

SOURCE CODE: UR/0079/66/036/009/1636/1639

AUTHOR: Shtokol, V. A.; Golik, S. A.; Libman, B. Ya.; Derkach, G. I.

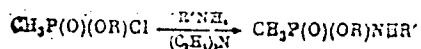
ORG: Institute of Organic Chemistry, Academy of Sciences, USSR (Institut organicheskoy khimii Akademii nauk UkrSSR)

TITLE: Monoalkylamides of alkyl methylphosphonates

SOURCE: Zhurnal obshchey khimii, v. 36, no. 9, 1966, 1636-1639

TOPIC TAGS: insecticide, monoalkylamine-alkyl methylphosphonate, ORGANIC AMIDE, PHOSPHONATE, PHOSPHORIC ACID

ABSTRACT: In a search for new insecticides, a series of monoalkylamides of alkyl methylphosphonates was obtained by the reaction of methylphosphonic acid chloride with primary amines in the presence of triethylamine in an ether solution at room temperature:



Composition and properties of the amides are given in the table.

Card 1/4

UDC: 547.26'118

ACC NR: AP6031382 Table 1. Monoalkylamides of alkyl methylphosphonates

CH ₃ P(O)(OR)NHR'					
R	R'	yield, %	bp (p, mm)	d ₄ ²⁰	n _D ²⁰
CH ₃	CH ₃	a, 37	72-73° (0.02)	1.4288	1.4423
CH ₃	C ₂ H ₅	a, 58	78-79 (0.02)	1.0779	1.4402
CH ₃	н _п о-C ₃ H ₇	a, 42	81-83 (0.03)	1.0402	1.4573
CH ₃	н-C ₄ H ₉	a, 36	95-96 (0.1)	1.0192	1.4424
C ₂ H ₅	CH ₃	б, 82 (69)	86-88 (0.5)	1.0885	1.4560
C ₂ H ₅	C ₂ H ₅	б, 72	91-93 (0.4)	1.0482	1.4572
C ₂ H ₅	н _п о-C ₃ H ₇	б, 78 (62)	86-87 (0.03)	0.9935	1.4317
C ₂ H ₅	н-C ₄ H ₉ **	a, 54 (11)	100-101 (0.1)	0.9971	1.4470
iso-C ₃ H ₇	CH ₃	б, 81 (58)	73-75 (0.06)	1.0372	1.4350
iso-C ₃ H ₇	C ₂ H ₅	б, 79	69-71 (0.03)	1.0109	1.4535
iso-C ₃ H ₇	н _п о-C ₃ H ₇	б, 63	85-87 (0.07)	0.9863	1.4318
Card 2/4	iso-C ₃ H ₇	а, 54 (13)	138-139 (1)	0.9712	1.4376

ACC NR: AP000000

(Cont.)

mg		PART, %		Formula	calculated
FOUND	CALC.				
28.89	29.13	N	11.43	C ₂ H ₁₃ NO ₂ P	N 11.56
33.54	33.65	CH ₃ O	22.53	C ₄ H ₁₂ NO ₂ P	CH ₃ O 22.53
38.12	38.36	CH ₃ O	20.65	C ₂ H ₁₄ NO ₂ P	CH ₃ O 20.55
42.92	42.98	CH ₃ O	18.74	C ₆ H ₁₆ NO ₂ P	CH ₃ O 18.74
33.32	33.65	N	10.21	C ₄ H ₁₂ NO ₂ P	N 10.22
37.92	38.36	N 9.22; P 20.53		C ₅ H ₁₄ NO ₂ P	N 9.27; P 20.49
43.08	42.98	P	18.59	C ₆ H ₁₆ NO ₂ P	P 18.75
47.39	47.60	N	7.58	C ₇ H ₁₃ NO ₂ P	N 7.61
38.03	38.36	N	9.34	C ₂ H ₁₄ NO ₂ P	N 9.27
42.53	42.98	N	8.43	C ₆ H ₁₃ NO ₂ P	N 8.43
47.11	47.60	N 7.99; P 17.34		C ₇ H ₁₃ NO ₂ P	N 8.01; P 17.26
52.13	52.22	N 7.28; P 16.04		C ₈ H ₂₀ NO ₂ P	N 7.25; P 16.05

Card 3/4

ACC NR: AP6031382

These amides have strong insecticidal properties but are very toxic to domestic animals. Monoalkylamides of alkyl methylphosphonates react with tert-butyl hypochlorite to form N-chloro-N-alkylamides of alkyl methylphosphonates. The reaction takes place in chloroform at 20—30°C. [WA-50; CBE No. 12]

SUB CODE:06,07/ SUBM DATE: 17Jul65/ ORIG REF: 003/ OTH REF: 014/

Card 4/4

KHODCHENKO, L.P., inzhener; GOLIK, G.I., inzhener.

Standard metallic edge fittings for construction yards.
Shakht.stroi. no.4:25-27 Ap '57. (MKRA 10:7)
(Building materials industry--Equipment and supplies)

GOLIK, G.K., student IV kursa; WEDGATES, I.P., student V kursa

Professor Petr Ivanovich Shatilov, founder of the original
Russian school of therapeutics. Klin.med. 36 no.8:87-91
Ag '56. (MIRA 12:8)

1. Iz kafedry propedavтики vnutrennikh bolezney (zav. -
zasluzhennyy iatel' nauki prof. V.M.Kozan- Yasnyy) lechebnogo
fakul'teta Khar'kovskogo meditsinskogo instituta i 26-v klini-
cheskoy bol'nitsy (glavnyy vrach M.M.Gorodnichenko).

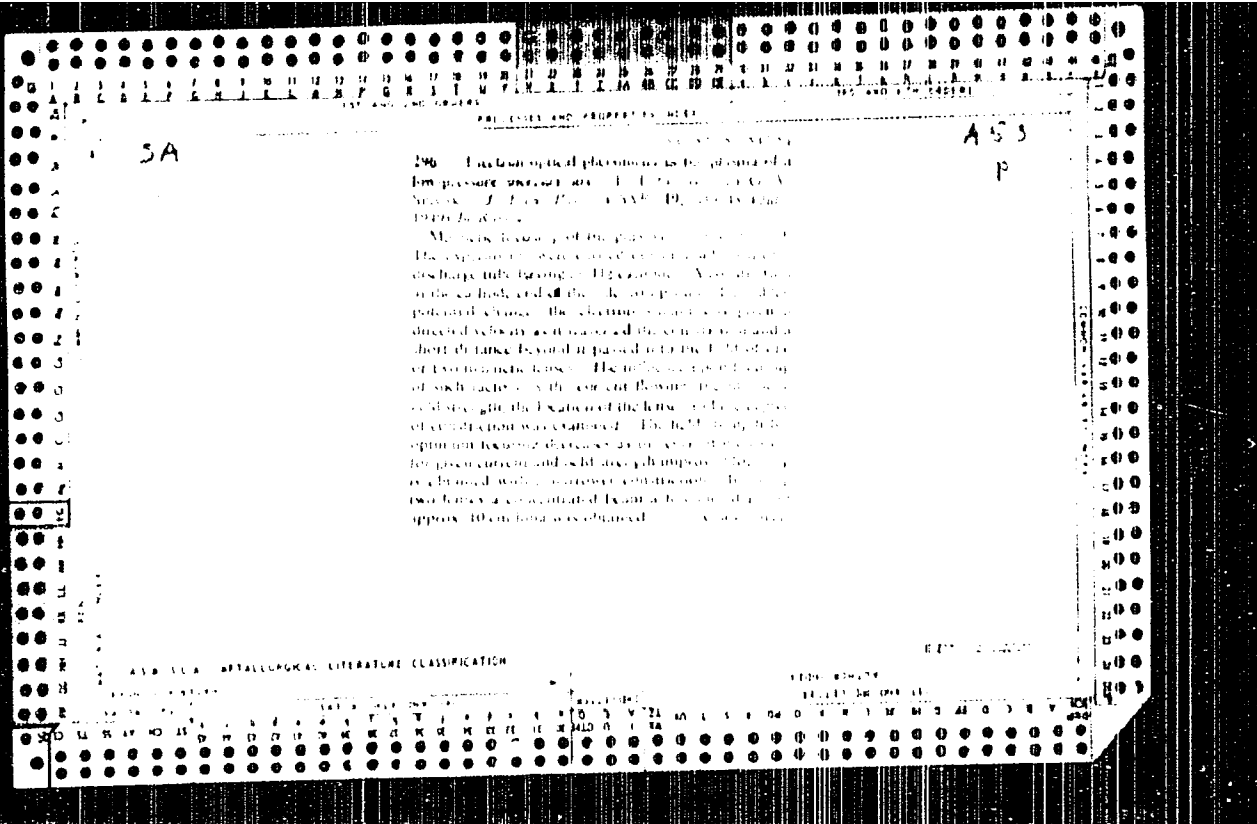
(BIOGRAPHIES

Shatilov, Petr I.)

СОЛК, Т.Н., Инд. (Совхозинд.) КОШКАВ, И.И. Индустриализация (Новосибирск).

Униформная логика организации и управления. Индустриализация.
45 no.9.02-84 S '83. (Инд. 1448)

1. Доставка грузов (Новосибирск-Кемерово) (Инд. 1448).
(Фрахт и фрахт)



WILK, K.N. [Holak, K.N.]

Diurnal and seasonal dynamics of the intensity of photosynthesis in
the sweet cherry, cherry, plum and apricot. Ukr. bot. zhur. 19 no.3:
20-27 '6 . (MIRA 15:7)

1. Institut botaniki AN USSR, otdel fotosintaza.
(Photosynthesis) (Fruit trees)

GOLIK, I.M. [Goliz', I.M.]

Intensity of photosynthesis and transpiration in the leaves of different sides of the crown of the sweet cherry, sour cherry, plum and apricot depending on the light. Ukr. bot. zhurn. 20: no. 3: 49-53, 1975. (U.S.S.R. 1713)

1. Institut fiziologii rastenii, AN SSSR, otdel fotosintezy.

GOLIK, K.N. [Holyk, E.M.]

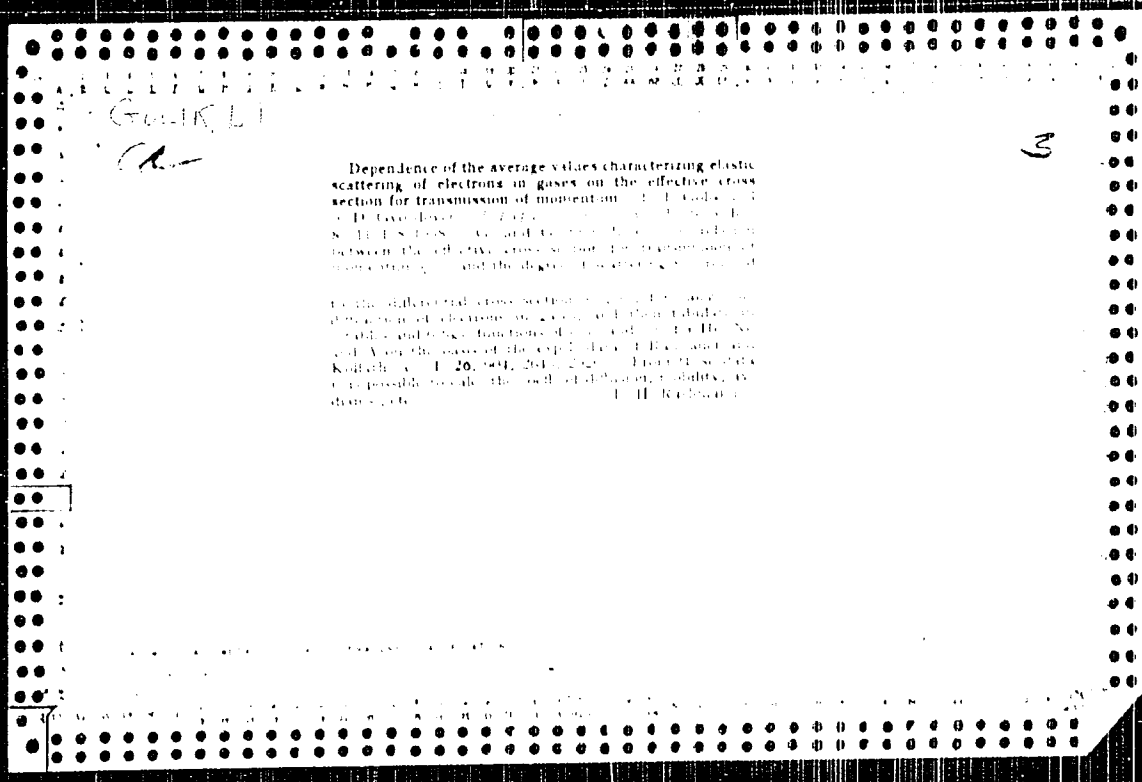
Effect of shade on the intensity of photosynthesis and
transpiration in the representatives of Prunaceae. Ukr. bot.
zhur. 21 no. 1:18-24 1964. (SCLBA 1733)

1. Otdel fotosinteza Instituta botaniki AN UkrSSR.

Handwritten notes and stamps, including a date stamp "1967" and a signature.

(HL 13-87, 114)

[Faint, mostly illegible text from a document scan, possibly containing a list or report content.]



NIK, L. I.

USSR/Physics
Electron Microscope
Arce, Mercury

Jul 49

Electronic Optical Phenomena in the Plasma of a Mercury Arc Under Low Pressure, " L. I. Golik, G. V. Spirak, Phys Faculty, Moscow State U Imeni M. V. Lomonosov, 9 pp

"Zhur Tokh Fiz" Vol XIX, No 7

Shows that in the field of a magnetic lens setting on a stationary plasma, contractions of two types develop: (1) diffusive-plasmatic, and (2) electronic optic. Second case develops for a rapid change in potential and an artificial contraction in plasma. Measured distribution in- charges along radius of ray and clarified focusing; fluence of discharge current influences focusing; Magnitude of discharge current influences field in as it does all effects of the magnetic field in the plasma. Decrease in contraction with increase in current is due to increase in proportion in com- speed of chaotic motion of the electrons in com- parison with direction. Submitted 29 Jun 48.

51/49759

GOLIK, L. I.

USSR/Physics - Plasma

Oct 53

"Electron Optical Phenomena in Focusing and Stationary Plasma in Mercury Vapors," L.I. Golik (deceased) and G.V. Spivak, Chair of Electron Optics

Vest Mos Univ, Ser Fizikomat i Yest Nauk, No 7, pp 117-123

In their previous works (see Zhur Ekst Teor Fiz, Vol 23, 1953) at their lab the authors established the presence of the phenomena of plasma focussing, which occurs under the action of external and internal electrical and magnetic fields. Their purpose here is to study the phenomena of contraction

273T97

(necking) of stationary plasma toward the axis of symmetry in a strong and concentrated external magnetic field.

GOLIK, L. I., MORACHENSKY, I. I., and SHEVYCHOV, B. I.

"Application of a Differential Thermo-Couple for the Investigation of Mass Transfer at Drying Cellulose Materials."

Report submitted for the Conference on Heat and Mass Transfer, Minsk, USSR, June 1961.

(S)

S/001, 111, 001 015/023
2131 8101

Central Laboratory of... (faint text)

In the investigation... (faint text paragraph)

X

ASSOCIATION: ... (faint text)

PRESENTED: ... (faint text)

SUMMARY: ... (faint text)

СОВЕТ, М., ул. Дзержинский, МЛВЛ. В. У., 1941.

estimate more precisely the mechanical damage of sets coral.
Mikroelek. prom. 79 no. 12:15-16 6 '63. (MERA 17.5)

1. Vsesoyuznyy nauchnyy institut pishlevoy promyshlennosti.

GOLIK, M. G.

"Scientific Principles Underlying the Storage of Ear and Shelled
Corn and Their Practical Application." Dr Agr Sci, Khar'kov Agri-
cultural Inst, Moscow, 1953. (RZhBiol, No 6, Nov 54)

Survey of Scientific and Technical Dissertations Defended at USSR
Higher Educational Institutions (11)

SO: Sum. No.521, 2 Jun 55

1954, No. 4.

Chemical Abstr.
Vol. 48 No. 8
Apr. 25, 1954
Fats, Fatty Oils, Wax, and
Detergents

A method is described for the determination of the hydrolytic quality of rapeseed (needs).
The method is described in the paper, *Chem. Abstr.*, 1954, No. 11.
The method is described in the paper, *Chem. Abstr.*, 1954, No. 11.
The method is described in the paper, *Chem. Abstr.*, 1954, No. 11.
The method is described in the paper, *Chem. Abstr.*, 1954, No. 11.
Mikhail N. Kuzovkov

GOLIK M.G.

VORONTSOV, O.S.; GOLIK, M.G.; DELIDOVICH, V.N.; KLEYEV, I.A.; KOK'-
MINA, N.P., doktor biologicheskikh nauk, professor; SOSEDOV, N.I.
FESTA, N.Ya.; CHUKHAR'KO, Z.T.; GEL'MAN, D.Ya., redaktor; LA-
BUS, G.A., tekhnicheskii redaktor.

[Grain storage; management and equipment] Organizatsiia i tekhnika
khraneniia zerna. Moskva, Izd-vo tekhn. i ekonomicheskoi lit-ry.
1954. 358 p. [Microfilm] (MLBA 7:10)
(Grain--Storage)

Golik, M.G.

И С С Р

Accumulation of fat and its distribution in the corn grain.
M. G. Golik. *Russk. Zerno. Akad. Nauk S.S.S.R.*
~~(1954)~~. -- In the course of vegetation corn
grain contains much fat, reaching 1.87% at ripeness. Embryo tissues contain more fat than do other parts of the grain. The embryo also bears the greater proportion of enzyme systems, which are of importance in storability of corn. Thus the state of the embryo is more important than storability factor in corn than in other grains. G. M. K...

BAUM, A., kandidat tekhnicheskikh nauk; GOLIK, M., kandidat sel'eko-
khozyaystvennykh nauk.

Transference of moisture in stored grain. Muk.-elev.prom. 20
no.3:3-6 Mr '54. (MIRA 7:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut zerna i
produktov ego pererabotki.
(Grain-Storage)

GOLIK, M. G.

Changes in the enzymic activity of ripening corn seeds.
M. G. Golik. *Izvy Vsesoyuz Nauch Issledovatel Inst.*
Zerna 1954, No. 27, 66-72; *Referat Zhur. Khim., Est.*
Khim. 1954, No. 11792. The activity of dehydrases, α -
and β amylase, and of lipase in the corn seeds during the
period of milk formation is high. As the seeds ripen the
activity of such enzymes gradually recedes until at the stage
of complete ripening enzymic activity is not detected. It is
suggested that the possible persistence of amylase may be
one of the factors responsible for the easy spoilage of corn
harvested before its full maturity. B. S. Levin...

GOLIK, M. G.

Golik, M. G.: Fiziolozhiko-biokhimiicheskie osnovy khraneniya kukuruzy (Physiological-Biochemical Bases for the Storage of Corn). Moscow: Izdatel. Akad. Nauk S.S.S.R., 1965. 223 pp.

GOLIK, M., doktor sel'skokhozyaystvennykh nauk.

Particular aspects of corn storage. Muk.-elev.prom. 21 no.10:4-7
0 '55. (MLBA 9:1)

1.Vysshaya zagotovitel'naya shkola.
(Corn (Maize)--Storage)

GOLIK, Mikhail Grigor'evich, doktor sel'skokhozyaystvennykh nau, professor;
KRETOVICH, V.L., professor, doktor biologicheskikh nauk, redaktor;
GEL'MAN, D.Ya., redaktor; GOLUBKOVA, L.A., tekhnicheskiy redaktor

[Storage of corn: scientific principles] Khraneniye kukuruzy; nauchnye osnovy. Pod red. V.L.Kretovicha. Moskva, Izd-vo tekhn. i ekon. lit-ry po voprosam mukomol'no-krupianoj, kombikormovoj promysl. i elevatorno-skadskogo khoziajstva. Khleboizdat, 1956. 115 p.
(Corn (Maize)--Storage) (MLRA 10:3)

GOLIK, M. G.

V Dehydrogenases of developing grain of maize. M. G. Golik. *Bizhivn. Zerna, Sbornik* 1936, No. 3, 166-67. During maturation of maize grain there is a gradual decrease in the rate of respiration of the grain. Along with this decrease in rate of respiration there was observed a decrease in the activity of dehydrogenases, indicating that the lowering of the respiratory gas metabolism is connected with the lowering of the activity of the oxidation-reduction enzymic systems, mainly of dehydrogenases. L. A. Sokolov

GOLIK, M., doktor sel'skokhozyaystvennykh nauk, prof.; RYAZANTSEV, P.

Effectiveness of drying ear seed corn with hot air in Krasnodar Territory. Muk.-elev. prom. 24 no.8:14-16 Ag '58. (MIRA 11:10)

1. Nachal'nik Kraanodarskogo upravleniya khleboproduktov (for Ryazantsev).

(Kraanodar Territory--Corn (Maize)--Drying)

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