

L 3251-66 ENT(m)/ENP(t)/ETI IJF(c) RDM/JD/JG
ACC NR: AP6017058 (N) SOURCE CODE: UR/0233/65/000/004/0084/0089

AUTHOR: Veliyev, M. I.; Aliyev, G. M.

ORG: none

TITLE: Effect of sodium on the heat conductivity and density of selenium

SOURCE: AN AzerbSSR. Izvestiya. Seriya fiziko-tehnicheskikh i matematicheskikh nauk, no. 4, 1965, 84-89

TOPIC TAGS: selenium, heat conductivity, sodium

ABSTRACT: Density (δ) and heat conductivity (λ) measurements were made on Se (99.9999% purity) containing 0.034, 0.17, 0.34, 0.85, 2, 3.4 at % Na. The temperature function of λ is expressed by $\lambda \sim T^a$. For amorphous Se, λ has a maximum for 0.17 at % Na and for crystalline Se, λ has a minimum for 0.34 at % Na, after which the properties of both approach those of pure Se. The absolute values of α decrease with an increase in impurity content. With the addition of up to 0.034 at % Na, α increases to 0.153 g/cm³; further increase to 0.85 at % decreases α to 0.068 g/cm³. Measurements of x-ray and pycnometric densities of polycrystalline Se and the addition of Na confirm the assumption that the Se has vacancies and pores. Orig. art. has: 3 formulas, 2 tables, 2 figures.

SUB CODE: 11, 20/ SUBM DATE: 10Mar65/ ORIG REF: 010/ OTH REF: 002

Card 1/1 *AKB*

ACC NR: AP7003335

SOURCE CODE: UR/0076/66/040/012/3086/3089

AUTHOR: Mamudov, K. K.; Korimov, I. G.; Makhtiyev, M. I.; Veliyev, M. I.

ORG: Physics Institute, Academy of Sciences, AzerbSSR (Institut fiziki Akademii nauk AzerbSSR)

TITLE: Thermodynamic studies at low temperatures

SOURCE: Zhurnal fizicheskoy khimii, v. 40, no. 12, 1966, 3086-3089

TOPIC TAGS: selenium, heat capacity, entropy, enthalpy, *heat conductivity, thermodynamic analysis*

ABSTRACT: The heat capacity c_p of amorphous selenium was measured at 147 points in the range of 56-332°K. An anomalous increase of the heat capacity around the glass transition temperature was established, and it was found that $T_g = 303.4^\circ\text{K}$. In the 56-150°K range, the results obtained obey Tarasov's equation for noninteracting chains,

$$c_i = D_i(\theta_i/T) = 6R(T/\theta_i) \int_0^{\theta_i/T} \frac{x dx}{e^x - 1} - 3R(\theta_i/T) [\exp(\theta_i/T) - 1]^{-1}, \quad (1)$$

where $\theta_1 = h\nu_{\max}/k$ and $x = h\nu/kT$, with $\theta = 364^\circ\text{K}$. It was found that the hole part of the thermal conductivity is equal to 14.53 J/g atom deg, and depends on the cooling rate of the sample. The following quantities were determined:

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UDC: 541.11

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$$S_{0-298.16} = 48.40 \pm 0.80 \text{ J/g atom deg.}$$

$$H_{298.16} - H_{54} = 5340 \pm 10 \text{ J/g atom.}$$

Orig. art. has: 2 figures, 2 tables and 3 formulas.

SUB CODE: 07/ SUEM DATE: 17Nov65/ ORIG REF: 003/ OTH REF: 006

Card 2/2

VELIYEV, M.K.

Knife wound in the heart. Azerb.med.zhur. no.8:91 Ag '58 (MIRA 11:9)

1. Khirurg Khachnasskoy ob'yedinennoy bol'nitsy (glavvrach S.Abiullayev):
(HEART--WOUNDS AND INJURIES)

AVERBUKH, B.M.; VELIYEV, M.M.

Petroleum and gas potentials of the Neocomian sediments in
the Begimdar area of the Caspian Sea region. Neftgaz. geol.
i geofiz. no.7:8-11 '63. (MIRA 17:10)

1. Gosudarstvennyy trest geologo-razvedochnykh predpriyatiy
Azerbaydzhanskoy neftyanoy promyshlennosti.

GUSEYNOV, G.P.; VELIYEV, M.N.

Flow of gas from one horizon to another through barely permeable
cofferdams when working a deposit. Dokl. AN Azerb. SSR 19 no.12:
9-13 '63. (MIRA 17:4)

1. Azerbaydzhanskiy nauchno-issledovatel'skiy institut po dobyche
nefti. Predstavleno akademikom AN AzSSR S.M.Kuliyevym.

VELIYEV, M.V.

NASIROV, A.B.; ASHUMOV, G.G.; VELIYEV, M.V.

Research on the hydrocarbon content of medium fractions of
Siazan petroleum [in Azerbaijani with summary in Russian].
Azerb.neft.khoz. 36 no.3:38-39 Mr '57. (MLRA 10:5)
(Hydrocarbons)

VELIYEV, N.A.

Basic features in the development of the hydrographic net of
Nagornyy Karabakh [in Azerbaijani with summary in Russian].
Izv.AN Azerb.SSR no.6:81-93 Je '57. (MIRA 10:10)
(Nagorno-Karabakh Autonomous Province--Rivers)

VELIYEV, N. A.

Variability of the average yearly discharge of rivers in Nagorny Karabakh [in Azerbaijani with summary in Russian]. Dokl. AN Azerb. SSR 13 no.10:1095-1098 '57. (MIRA 10:12)

1. Institut geografii AN AzerSSR.
(Nagorno-Karabakh Autonomous Province--Rivers)

VELIYEV, N.A.

Principal factors determining river discharges in the Nagorno-Karabakh Autonomous Province [in Azerbaijani with summary in Russian]. Izv.AN Azerb.SSR. Ser.geol.-geog.nauk no.2:131-148 '58. (MIRA 11:12)
(Nagorno-Karabakh Autonomous Province--Rivers)

VELIYEV, N.A.; KISIN, I.M.

Some characteristics of snow cover in the Dzhurmut basin
[in Azerbaijani with summary in Russian]. Dokl. AN Azerb. SSR
14 no.11:863-867 '58. (MIRA 11:12)

1. Institut geografii AN AzerSSR.
(Dzhurmut Valley--Snow)

VELIYEV, N. A.: Master Geogr Sci (diss) -- "The rivers of the Karabakh and the basic factors affecting their flow". Baku, 1958, published by the Acad Sci Azerb SSR. 20 pp (Min Higher Educ, Azerb State U im S. M. Kirov), 150 copies (KL, No 14, 1959, 118)

VELIYEV, N.A.

Special features in the annual distribution of the discharge of
rivers in the Karabakh area. Izv. AN Azerb. SSR. Ser. geol.-geog.
nauk no.1:131-137 '60. (MIRA 13:11)
(Karabakh Range--Rivers)

GASANOV, M.M.; VELIYEV, N.A.; DZHAFAROV, B.S.

Thermal regime of the rivers of the Lesser Caucasus.
(Azerbaijan S.S.R.). Uch.zap.AGU.Geol.-geog.ser. no.3:79-89
'60. (MIRA 14:6)
(Azerbaijan--Rivers--Temperature)

HUSTAMOV, S.G.; VELIYEV, N.A.

Annual distribution of the river discharge in the southern slope
of the Greater Caucasus. Izv. AN Azerb. SSR. Ser. geol.-geog.
nauk no.3:105-116 '60. (MIRA 13:10)
(Caucasus--Runoff)

VELIYEV, N.A.

Factors influencing maximal runoff of Karabakh rivers [in Azerbaijani
with summary in Russian]. Dokl. AN Azerb.SSR 16 no.8:781-784 '60.
(MIRA 13:9)

(Nagorno-Karabakh Autonomous Province--Runoff)

KISIN, I.M.; GASANOV, M.M.; VELIYEV, N.A.

Alimentation of glaciers in the eastern Caucasus. Uch.
zap. AGU. Ser. geol. geog. nauk no.1:63-67 '61.
(MIRA 16:8)

VELIYEV, N.A.

Annual runoff regime of Karabakh rivers and their source
regions feeding them. Uch. zap. AGU. Ser. geol. geog. nauk
no.1:85-92 '61. (MIRA 16:8)

VELIEV, N.A.

Minimum runoff of the Karabakh rivers and its vertical zonal
distribution. Trudy Inst. geog. AN Azerb. SSR 10:141-160

'61.

(MIRA 14:12)

(Karabakh--Rivers)

RUSTAMOV, S.G.; VELIYEV, N.A.

Average perennial discharge of the Kishchav Basin. Izv,AN
A Azerb.SSR. Ser.geol.nauk i nefti no.5:148-154 '61. (MIRA 15:1)
(Kishchay Valley--Hydrology)

VELIYEV, N.A.

Role of snow waters in the formation of the spring runoff in rivers
of the Karabakh Range. Trudy Tbil.NIGMI no.9:175-177 '61.

(MIRA 15:3)

1. Institut geografii AN Azerbaydzhanskoy SSR.
(Karabakh Range--Runoff)

VELIYEV, N.A.; GADZHIBEKOV, N.G.

Calculating elements of spring and summer floods of the rivers
of the northeastern slope of Lesser Caucasus in the limits of
Azerbaijan. Za tekhn. prog. 3 no.10:34-37 O '63. (MIRA 16:12)

VSTIVLV--h-V

VELIYEV, Sh.V.

Alkylation of 1,2,4-benzene trioxane in the presence of sulfuric acid. Yu. V. Melnikova, *Dokl. Akad. Nauk SSSR*, 1962, 176, 1111-1113.

The alkylation of 1,2,4-benzene trioxane (I) with alkyl bromides in the presence of sulfuric acid was studied. It was found that the reaction proceeds most rapidly at 100°C. The yield of the alkylated product increases with increasing alkyl chain length. The product obtained with longer alkyl chains (about 1 hr). The product, upon oxidation with potassium dichromate in a mixture of H_2SO_4 and CH_2Cl_2 , yields a mixture of CO_2 and HCl . The residue, after distillation, is a colorless liquid with a boiling point of 100°C. The refractive index is 1.452. The density is 1.0310. Upon oxidation with potassium dichromate in a mixture of H_2SO_4 and CH_2Cl_2 , the residue yields a mixture of CO_2 and HCl . The residue, after distillation, is a colorless liquid with a boiling point of 100°C. The refractive index is 1.452. The density is 1.0310.

VETIVER SIV

VELIYEV Sh V

MAMEDALIYEV, Yu.G.; VELIYEV, SH.V.

[Preparation of halogenated alkylbenzenes and their transformation into halogenated styrenes.] Poluchenie galoidalkilbenzolev i prevrashchenie ikh v galoidztiroly; doklady na IV Mezhdunarodnom nefitianem kongresse v Rime. Moskva, Izd-vo Akad.nauk SSSR, 1955. 29 p. (MLRA 8:9)
(Benzene) (Styrene)

MAMEDALIYEV, Yu.G.; VELIYEV, Sh.V.

Alkylation of chloroventzene by ethylene in the presence of sulfuric acid and aluminosilicates. Uch.zap.AGU no.4:7-12 '55. (MLBA 9:12)
(Alkylation) (Benzene)

VELIYEV, Sh. V.
ASHUMOV, G.G., kandidat khimicheskikh nauk; VELIYEV, Sh.V., kandidat khimicheskikh nauk.

Results of the chemical study of condensates from wells having a high formation pressure. Azerb.neft.khoz. 35 no.10:31-33 0 '56.
(MIRA 10:1)

(Condensate oil wells)

Vel'iyev, Sh.V.

627/01-59-10-36435

Translation from: Referativny Zhurnal. Khimiya, 1959, Nr 10, p 443 (235R)

AUTHORS: Asburov, G.G., Kulliyev, R.Sh., Anzurov, K.I., Nigmatov, F.S., Ritushina, Ye.M., Vel'iyev, Sh.V.

TITLE: An Investigation of Kalina Petroleum of the Upper Formation With the Aim of Obtaining Aircraft Oil

PERIODICAL: Sb. tr. Azerb. n.-i. in-t neftepererabot. prom-sti, 1958, Nr 2, pp 99-105 (Azerbaydzhaniyan summary)

ABSTRACT: The results of experiments are cited on the elucidation of the possibility of using masut from Kalina petroleum of the upper formation with the aim of finding additional resources for the production of aircraft oil. The investigation was carried out with regard to obtaining MK-22 oil by industrial technology as well as with the application of the process of deasphaltation of the initial concentrate, and also with regard to obtaining MS-20 aircraft oil with the application of deasphaltation and selective purification by phenol. It has been shown that MK-22 oil can be obtained by both methods with all indices corresponding to the standard with exception of density; the oil yield in comparison with the yield from Buzahany choice

Card 1/2

petroleum is twice lower. MS-20 oil from Kalina petroleum in its principal indices satisfies the demands of the technical standards.

V. Zel'tsov

VELIYEV, S.A.
ASHUMOV, G.G., kandidat khimicheskikh nauk; VELIYEV, Sh.V., kandidat khimicheskikh nauk; EYVAZOVA, S.A., kandidat khimicheskikh nauk.

Study of oils in the Neftechala region. [in Azerbaijani with summary in Russian]. Azerb.neft.khoz.36 no.2:25-27 F '57.
(MLRA 10:4)

(Neftechala--Petroleum)

VELIYEV, Sh.V.; GRIGORYAN, Kh.A.; SARKISOVA, L.G.

Investigation of gas and condensate of the Karadag field. Sbor.
trud.Az NII NP no.4:201-217 '59. (MIRA 15:5)
(Karadag region--Condensate oil wells)

VELIYEV, Sh.V.; GRIGORYAN, Kh.A.; VLADIMIRSKAYA, G.I.

Investigation of gas and petroleum of the Siazan' field. Sbor.
trud.Az NII NP no.4:218-228 '59. (MIRA 15:5)
(Siazan' region--Gas, Natural--Analysis)
(Siazan' region--Petroleum--Analysis)

MUSAIEV, M.R.; VELIYEV, Sh.V.; KOSYKHIN, A.S.; MEKHTIYEV, S.D.

Composition of pentenes obtained in the dehydration of amyl
alcohols on aluminum oxide. Azerb.khim.zhur. no.6:29-36. '63.
(MIRA 17:3)

ALIYEV, A.M.; VELIYEV, Sh.V.

Composition and rectification purification of vinyl chloride.
Nefteper. i neftekhim. no.3:29-32 '65. (MIRA 18:5)

1. Institut neftokhimicheskikh protsessov AN AzorSSR, Baku.

VELIYEV, S.M.

Azerbaijan is competing with Bashkiria. Neftianik 1 no.1:22-24 Ja
'56. (MIRA 9:7)

1.Chlen prezidiuma Tsentral'nogo komiteta profsoyuza rabochikh neftya-
noy promyshlennosti.
(Bashkiria—Oil fields)

62/1401
GLIN, T

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Azerbaydzen SSR-nin Kend Teserrufaty Altybdzgt Beshillikde (Agriculture of
the Azerbaydzen SSR in the sixth Five-Year Plan) Baky, Azerneshr, 1957.
50 P.
Bibliographical Footnotes.

VELIYEV, T.T.

Industrial silk production in Nukha District at the beginning
of the 20th century. Dokl. AN Azərb. SSR 21 no.5:89-92 '65.
(MIRA 18:9)

VELIYEVA, N. I.: Master Agric Sci (diss) -- "The productivity of mixtures of lucerne with annual fodder crops sown in the spring". Kirovabad, 1958. 18 pp
(Min Agric USSR, Azerb Agric Inst), 150 copies (KI, No 10, 1959, 127)

MIKHAILOV, G.; VELIZAROV, A.; PELOVA, N.

Causes of postoperative deaths. Khirurgia, Sofia 8 no.1:
4-9 1955.

1. Visssh meditsinski institut V. Chervenkov - Sofia. Institut
po obshcha patologiya i patologichna anatomia, zav. katedrata:
prof. B. Kurdzhiev.
(SURGERY, OPERATIVE,
postop.mortal.causes)

KIRCHEV, P.; LAZAROV, B.; VELIZAROV, A.

Multiple malignant tumors; two cases with multiple tumors. Suvrem. med.,
Sofia 9 no.2:102-110 Feb 58.

1. Iz Katedrata no patologiczna anatomia pir VMI; Sofia (Zav. katedrata:
prof. B. Kurdzhnev). i Katedrata po fakultetska terapiia pri VMI; Sofia
(Zav. katedrata: prof. M. Rashev)
(NEOPLASMS, case reports
multiple primary cancers (Bul))

VELIZAROV, A.

Clinico-anatomical analysis of 76 bone tumors (clinical and histological discrepancies in the diagnosis). Khirurgia, Sofia 14 no.2/3:282-284 '61.

1. Katedra po patologiczna anatomia pri Viashia meditsinski institut, Sofia.

(BONE AND BONES neopl)

SIVCHEV, S.; VELIZAROV, A.; PELOVA, N.; PETRINSKA, S.; UZUNOV, P.; TAKOV, R.
VULKOV, Iv.

Pathomorphology in the influenza epidemic of 1959. *Suvrem med.*,
Sofia no.7:61-67 '61.

1. Katedra po patologiczna anatomia pri Visshia meditsinski institut,
Sofia. Rukov. na katedrata prof. B. Kurdzhiev.

(INFLUENZA pathol)

VELIZAROV, A.

ANTONGYA, V.

Bulgaria

Academic Degree not given

Chair for Children Diseases at the Higher Medical
Institute in Sofia (Katedra po detski bolesti pri
VMI -- Sofia); director: Prof. L. RACHEV.

Chair for Pathological Anatomy at the Higher Medical
Institute in Sofia (Katedra po patologichna anatomiya
pri VMI -- Sofia); director: Prof. B. KURDZHIEV.

Sofia, Pediatrics, supplement of Sovremenna Medicina,
No 3, 1962, pp 51-54.

"Inborn Stenosis of the Duodenum and Pneumato-Cystoids
in the Stomach"

Co-author: VELIZAROV, A. The same affiliation as
above.

NIKOLOV, P.; VELIZAROV, A.; BOIADZHIEV, TSv.

Morphological myocardial and parenchymal changes produced by cardiac glycosides in chronic experiments in dogs. Izv. inst. fiziol. (Sofia) 6:35-51 '63.

(HEART) (STROPHANTHIN)

TANEV, Iv.; KHAITOV, A.; TODOROV, M.; PODVURZACHOVA, A.; VELIZAROV, At.

Cholestatic hepatitis. Suvr. med. (Sofia) 15 no.5:11-16 '64

VELIZAROV, At.

MIKHAILOV, G. professor; VELIZAROV, At.; PELOVA, N.

Causes of postoperative mortality. Khirurgiia, Sofia 8 no.2:
97-110 1955.

1. Vissh meditsinski institut v Chervenkov-Sofia institut po
obshcha patologiya i patologichna anatomia zav.katedrata:
prof. B.Kurdzhiev.

(THORAX, surgery,
postop. mortal.)

(NECK, surgery,
postop. mortal.)

(SURGERY, OPERATIVE, complications,
fatal)

VELIZAROV, At.; GEORGIEV, A.

A case of congenital valves in the posterior urethra. *Khirurgia*
(Sofia) 18 no. 4: 489-492 '65

1. Katedra po patologichna anatomia, Vissh meditsinski institut,
Sofia (rukovoditel - prof. B. Kurdzhiev).

AVRAMOV, A.; KOSHEV, I.; VELIZAROV, S.; GRUEV, G.; TAGAROV, D.

Apropos of the etiopathogenesis of acute appendicitis in children. *Khirurgiia (Sofia)* 18 no.3:320-327 '65.

1. VMI, Sofia, Katedra po bolnichna khirurgiia (rukovoditel: prof. St. Dimitrov), Katedra po patologichna anatomiia (rukovoditel: prof. B. Kurdzhiev).

GEORGIEV, Zdr.; RASHKOV, R.; ANATKOV, At.; VELIZAROVA, K.; IORDANOVA, Evg.;
DIMITROV, TSV.; GIGOVA, D.

The frequency and the distribution of leukoses in Bulgaria. (Preliminary
communication). Suvrem med., Sofia no.4:3-15 '60.

1. Iz Hauchnoizsledovateliskii institut po khematologii i krvopreli-
vane (Direktor: kand. med. nauki V.Serafimov-Dimitrov)
(LEUKEMIA statist.)

(GEORGIEV, Z.; ANATKOV, At.; GIGOVA, D.; VELIZAROVA, K.; GORANOV, Em.;
TANKOVSKI, Iv.; DOEREVA, An.; NOEV, K.

On clinico-hematological forms of neoplastic leukemia. Suvr.
med. (Sofia) 15 no.12:13-22 '64.

ZHERDEVA L.G.; SIDLYARONOK, F.G.; VELIZAR'YEVA' N.I.

Nature of aromatic compounds and tars contained in high-boiling
petroleum fractions. Khim. i tekhn. no.1:17-26 Ja '56.
(Petroleum) (Hydrocarbons) (MIRA 9:7)

VELIZAR'YEVA, N.I.

AUTHORS: Moshkin, P.A., Velizar'yeva, N.I., Rapoport, I.B.,
Klapishevskaya, Z.B., Makhnenko, G.Kh., and Soskin, M.A.

TITLE: Paraffins from sulphurous crude oils as a raw material for
the production of synthetic fatty acids. (Parafiny
serinstykh neftey kak syr'ye dlya proizvodstva sintetichesk-
ikh zhirnykh kislot). 65-6-7/13

PERIODICAL: "Khimiya i Tekhnologiya Topliva i Masel" (Chemistry and
Technology of Fuels and Lubricants) 1957, No.6, pp.41-47
(USSR).

ABSTRACT: This investigation was carried out under the direction of
Prof. L.G.Zherdeva and Candidates of Chem.Sc., E.V.Voznes-
enskaya and A.A. Karaseva. The object of the work was to
investigate the possibility of producing fatty acids suit-
able for soap making by the oxidation of paraffin obtained
from sulphurous crude oils (1.5-1.6% of sulphur). Data on
the raw materials used are given in table 1. The experi-
ments were carried out on a VNII-NP pilot plant (a column
3000 mm high and 280 mm in diameter, the weight of the
charge about 30 kg) which was used for the oxidation of
paraffin from Drogobych crude. Samples of fresh paraffin
and its mixtures with so called 1st and 11nd non-saponified
products were oxidised. The process consisted of: low tem-
perature oxidation (108-110 C) in the presence of potassium

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Paraffins from sulphurous crude oils as a raw material for the production of synthetic fatty acids. (Cont.)
permanganate as a catalyst (0.2-0.3%) by air (120 l/kg/hr);
washing of the oxidation products with water, saponification with NaOH; separation of unsaponified product I (unsaponified in an autoclave at 180-185 C and 9 atm), separation of unsaponified product II (thermal treatment at a high or low pressure: $t = 320-330$ C, $p = 120-130$ atm, or $t = 360-375$ C; $p = 3-5$ atm) the decomposition of soaps with sulphuric acid, washing with water and distillation. Results of oxidation of paraffin from a distillate (370-500 C) from a mixture of sulphurous crudes are given in table 2, characteristics of fatty acids produced - table 3; yield of oxidation products - table 4, results of oxidation of paraffin at a higher temperature (125-107 C) - table 5. It was established that purified paraffin (containing up to 2% of oil and up to 0.1% of sulphur) produced from a distillate boiling at 370-500 C from a mixture of sulphurous crude oils is suitable for oxidation into synthetic fatty acids which can be used in soap making. Technical fatty acids produced leave up to 43-45% of residue on distillation which is about 24% of the starting material as against 15.5% for corresponding fatty acids from the Drogobych paraffin. The yield of the

Card 2/3

Paraffins from sulphurous crude oils as a raw material for the production of synthetic fatty acids. (Cont.)^{65-6-7/13}
fraction of fatty acids suitable for soap making, i.e., C₁₀ - C₂₀, was 25-28% of the paraffin reacted as against 33.3% for the corresponding Drogobych paraffin. In order to increase the yield of the above acids the use of paraffin similar in composition to that obtained from Groznyy crude oil is recommended. The oxidation should be carried out at 106-108 C as under these conditions the formation of oxyacids is negligible (up to 1%). The temperature of distilling off unsaponified product II in an evaporator should be 360-375°. On oxidation of paraffin containing above 2% of oil, oxyacids are also formed, the yield of which increases with increasing oil content.

There are 5 tables.

ASSOCIATION: NNII NP.

AVAILABLE:
Card 3/3

VELIZAR'YEVA, N.I.

MOSHKIN, P.A.; VELIZAR'YEVA, N.I.

Obtaining synthetic fatty acids by oxidation of paraffin.
Khim. i tekhn. topl. i masel no.8:20-23 Ag '57. (MIRA 10:10)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut po pererabotke
nefti i gaza i polucheniyu iskusstvennogo zhirkogo toplica.
(Acids, Fatty) (Paraffins) (Oxidation)

VELIZAR'YEVA, N. I., SHENDEVA, L. G.

"Physicochemical Study of Asphaltic-Resinous Substances From Eastern Crudes"
p. 266

Composition and Properties of the High Molecular Weight Fraction of
Petroleum; Collection of Papers, Moscow, Izd-vo AN SSSR, 1956. 370pp. (anta nefti)
2nd Collection of papers publ. by AU Conference, Jan 56. Moscow.

Propane treatment yields products with a high hydrogen content and high molecular weight. Phenol treatment gives products of lower molecular weight, high density, and high S, N and O content. Resins from Tuymazy and Emba crudes are composed of polycyclic compounds containing S, N, and O, with average molecules of 4 - 6 cycles. The average molecule contains not only aromatic cycles, but also considerable amounts of naphthenic (sometimes up to 50%) and paraffinic (40 - 50%) cycles, basically short. There are 7 tables, 3 figures, and 13 references of which 12 are Soviet and 1 German.

VELIZAR'YEVA, N.I.; MOSHKIN, P.A.; PAPOPORT, I.B.; KLAPISHEVSKAYA, Z.B.

Comparative data for obtaining synthetic fatty acids from
paraffins of different fractional composition from sulfur-
bearing crudes. Trudy VNII NP no.7:344-352 '58.
(MIRA 12:10)

(Paraffins) (Acids, Fatty)

2-3 to 1-2. The cyclic fraction of gums contains more aromatic than

MOSHKIN, P.A.; KOBZOVA, R.I.; VELIZAR'YEVA, M.I.; SOSKIN, M.A.; KARZHEV,
V.I.; RAPOPORT, I.B.

Higher alcohols of the aliphatic series from oxidation products
of solid paraffins. Khim.nauka i prom. 4 no.6:811-812 '59.
(MIRA 13:8)

1. Nauchno-issledovatel'skiy institut po pererabotke nefi i
gaza i polucheniyu iskusstvennogo zhidkogo topliva.
(Alcohols) (Paraffins)

VELIZAR'YEVA, N.I.; RAPOPORT, I.B.; MAN'KOVSKAYA, N.K.; BARSEGYAN, I.B.;
SHIMAN, A.M.; BABAYEV, V.I.; SUKHOTERIN, I.S.

Industrial experience in the oxidation of paraffins from sulfur-bearing crudes. Khim.i tekh.topl.i masel 5 no.7:11-16 JI '60.

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(Paraffins)

(Oxidation)

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(MIRA 19:1)

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VALICHANIN, A. A.

121-122 183.

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USPENSKIY, S.M.; BEME, R.L.; VELIZHANIN, A.G.

Avifauna of Wrangel Island. Ornitologiya no.6:58-67 '63.
(MIRA 17:6)

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Distribution of crested auklet in the Kurils Islands. Ornithologia
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VELIZHANINA, K. A. -- "Investigation of a New Form of Resonant Sound Absorber." Sub 13 Feb 52, Moscow Order of Lenin State University. I. Lomonosov. (Dissertation for the Degree of Candidate in Physico-mathematical Sciences).

SO: Vechernaya Moskva January-December 1952

AUTHOR: Velizhanina, K.A. and Rzhhevkin, S.N. 46-1-3/20

TITLE: Investigation of the sound absorbing structure of the Anechoic Chamber of the Faculty of Physics of the Moscow State University. (Issledovaniye zvukopogloshchayushchikh konstruktsey dlya zvukomernoy kamery fizicheskogo fakulteta Moskovskogo Gosudarstvennogo Universiteta.)

PERIODICAL: "Akusticheskiy Zhurnal" (Journal of Acoustics) 1957, Vol. III, No. 1, pp. 23 - 28 (U.S.S.R.)

ABSTRACT: Project and constructional details of the Anechoic Chamber for the new Faculty of Physics of the Moscow State University are given. It is an irregular parallelogram, 100 m² and about 7.5 m in height, the ceiling being inclined at about 10°. Total volume is 650 m³. The absorption chamber is insulated from the building walls with rubber spacers. The project involved an investigation into the best sound-absorbing types of constructions and of materials. The usually adopted construction methods are those given by E. Meyer, J. Buchman and A. Schoch 1) and by Beranek and Harvey P. Sleeper 2). These were used for the construction of the Anechoic Chamber of the Academy of Communications imeni Budenny (Akademiya Svyazi imeni Budennogo) with the absorbing material based on asbestos yarn. To improve low frequencies absorption, the Chamber of the Institute of Radio-communication and of Acoustics (Institut Radioveshchatelnogo Priema i Akustiki) in Leningrad, 3) the lining was changed to "MIPOR" foam plastic with a spec.grav. of

Card 1/2

Investigation of the sound-absorbing structure of the
Anechoic Chamber of the Faculty of Physics of the Moscow State
University. (Cont.) 46-1-3720

0.011-0.017 g/cm³ forming a resonant sound sink, as suggested
by Bibishev, Velizhanina and Sokolov, 4). This was achieved
by using segments of "MIPOR" with a bad absorption character-
istic and experimentally finding the best positioning of them
inside resonator cavities in the wall. As expected, this gave
good results at one particular frequency only, since for a
given resonator the segment should be chosen so as to meet
specific requirements as pointed out by Rzhevkin, S.V., 5). It
was decided, therefore, to use, in the present chamber glass
wool as absorbing material for segment lining with
s.g. = 0.12 g/cm³. It gave satisfactory results down to
80 c.p.s.

Two drawings of a straight and of a combined resonator
systems and 7 graphs relating the coefficient of reflection
against frequency for various materials and shapes of the
lining segments are included. There are 5 references, of which
3 are Russian.

Card 2/2

VELIZHANINA, K.A.

46-2-1/23

AUTHOR: Baranova, Z.N. and Velizhanina, K.A.

TITLE: Acoustical properties of certain sound-absorbing materials.
(Akusticheskiye parametry nekotorykh zvukopogloshchayushchikh materialov)PERIODICAL: "Akusticheskiy Zhurnal" (Journal of Acoustics), 1957,
Vol. 5, No.2, pp. 99-103 (U.S.S.R.)

ABSTRACT: The sound energy losses in sound-absorbing materials are due to viscous drag, thermal conductivity and to the non-ideal rigidity of the material body, the latter producing losses of relaxation character. While the Kirchhoff-Helmholz theory may be applied (2) in the case of a porous material with ideally cylindrical pores of equal diameter and with a perfect body rigidity; in the case of non-homogeneous material the theoretical evaluation of losses becomes practically impossible and the authors consider that experimental evaluation of acoustical properties of certain materials is necessary. They have experimentally measured the properties of cotton wool (0.014 g/cm³ and 0.044 g/cm³ density), of starch-bonded fibreglass, glass wool, (fibre diameter $d = 20 \mu$, density 0.14 g/cm³) and "mypor" ("solid foam" consisting of 72.2% formaldehyde, 27.3% urea and 0.5% sodium acetate), using the method suggested by Zwicker and

Card 1/4

Costain (1): the impedance of a layer of the thickness l on a

46-2-1/23

Acoustical properties of certain sound-absorbing materials (Cont.)
on a non-resilient base is:

$$z_r = W \coth \gamma l \quad (1)$$

and that of a layer with a $\lambda/4$ thick air gap behind it
(where λ is the wavelength) is:

$$z_a = W \tanh \gamma l \quad (2)$$

hence:

$$\tanh \gamma l = \sqrt{\frac{z_a}{z_r}} \quad (3)$$

where γ is the propagation constant. From the above formulae, the volumetric elasticity modulus is found to be:

$$K = j\omega \frac{W}{\gamma} \quad (4)$$

Card 2/4 and the acoustical density:

46-2-1/23

Acoustical properties of certain sound-absorbing materials.
(ont)

$$\rho = \frac{W\gamma}{j\omega} \quad (5)$$

The Z_1 layer impedance can be measured using the acoustical interferometer method from the position of the first standing wave minimum and from the SWR.

Since results of measurements depend on the sample thickness, the optimum thickness has been evaluated experimentally and found to be 2 to 3 cm. The following notation has been adopted:

$W = W_R + jW_i$ = complex wave impedance ; $\gamma = \beta + ja$ = propagation constant; $\rho = \rho' + j\rho''$ = complex acoustical density;

$K = K_R + jK_i$ = complex coefficient of volumetric elasticity;

c = sound velocity, as found from $c = \frac{\omega}{\alpha}$. The results have

been tabulated. It has been found that for cotton-wool the wave impedance decreases with frequency while the damping coefficient and sound velocity increase. For fibreglass the real part of

Card 3/4

the wave impedance has been found to be 7 to 8 times larger than that of air (at low frequencies), for the glass wool it being only twice as large and approaching it at high frequencies.

46-2-1/23

Acoustical properties of certain sound-absorbing materials.
(Cont.)

Combined with the very large damping coefficient, these properties make glass wool a very good sound absorbing material.

There are 5 tables of experimental results and 7 references, 2 of which are Slavic.

ASSOCIATION: Chair of Acoustics of the Moscow State University
(Kafedra Akustiki Moskovskogo Gosudarstvennogo
Universiteta)

SUBMITTED: July 17, 1956.

AVAILABLE: Library of Congress
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Ver. 2001, 11/1

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VELJANOVIC, JOVAN (Ing.)
SOURCE (in caps); Given Names

(1)

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Academic Degrees:

Affiliation: / not given /

Source: Belgrade, Jugoslovensko pronalazastvo, No 7, July 1961, pp 6-9.

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"Oral Treatment of Pernicious Anemia"

Belgrade, Srpski Arhiv za Tselokupno Lekarstvo, Vol 94, No 6, 1966, pp 535-540

Abstract: [Authors' English summary modified] The article describes the cases of 12 patients suffering from pernicious anemia who were orally treated with vitamin B¹² and the intrinsic factor (Biofac). The diagnosis was confirmed by clinical, cytological, and biochemical methods, and the oral treatment was the first therapy employed. Total recovery was achieved in 11 out of 12 patients, this being similar to other recoveries obtained by parenteral use of vitamin B¹². The control examinations of the patients speak in favor of the preparations used. The remission of one patient which lasted already 19 months and the experiences obtained in Denmark with Biofac give hopes of the permanent effect of oral treatment of pernicious anemia. The patient who failed to recover even with the parenteral use of vitamin B¹² led to doubts of the existence of a true pernicious anemia. As the patient refused further examination, the proper diagnosis of the disease could not be established. There are 2 Yugoslav and 19 Western references. (Manuscript received, 18 Feb 66.)

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