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KHEYFETS, Ye.M.; BUTKOV, N.A., red.; KIRZHNER, TS.Ya., tekhn.red.

[Present-day methods of obtaining toluene from petroleum] Sovremennye metody polucheniia toluola iz nefti. Moskva, Gostoptekhizdat, 1948. 55 p. (MIRA 12:10)
(Petroleum products) (Toluene)

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KHEYFETS, Ye. M.; KARZHEV, V. I.; and OROCHKO, D. I.

"Catalytic Aromatization of Gasolines", Transactions of the All-Union Scientific Research Institute of Synthetic Liquid Fuel and Gas, Moscow, Gostoptekhizdat, 1950, volume II.

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KHEYFETS, YE. M.

Novye metody opredeleniia khimicheskogo sostava topliv i masel. Moskva, Gostoptekhizdat, 1950. 63 p. diagrs.

Bibliography: p. 62-[64].

New methods of determining the chemical compound of fuel and oils.

DLC: TP691.K5

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress, 1953.

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KHEYFETS, Ye.M.

3

V1596. PRODUCTION OF STABLE HEAT-RESISTANT SYNTHETIC CHRESINE.
Kheifets, E.M. and Lipovskaya, K.G. (Nov. Mayt. Takh. [illegible]

[illegible] (Moscow), 1956, [illegible]

[illegible] of artificial inhibitors for [illegible]

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Khim. (Ref. J. Chem., Moscow), 1956, (24), 79052. Work is reported on the selection of artificial inhibitors for the production of synthetic ceresine with good dielectric properties. The best was inhibitor 70%, added at 145-12. C to the molten ceresine in the proportion of 0.005 to 0.2%.

USSR/Chemical Technology. Chemical Products and Their Application -- Treatment of natural gases and petroleum. Motor fuels. Lubricants, I-13

Abst Journal: Referat Zhur - Khimiya, No 2, 1957, 5554

Author: Kheyfets, Ye. M., Milovidova, N. V., Borukhova, M. S., Rapoport, I. B.

Institution: None

Title: Investigation of the Products of Synthesis from CO and H_2 Over Iron Catalysts

Original Publication: Khimiya i tekhnologiya topliva, 1956, No 5, 8-17

Abstract: Description o fthe results of an investigation of the products of synthesis from CO and H_2 over a Fe-Cu catalyst activated with borax and potash (K-1) and over a Fe catalyst activated with potash (K-2). Syntheses over K-1 and K-2 were conducted, respectively, at a pressure of 10 and 30 atmospheres, at temperatures of 200-250° and ~300°, space velocity of ~80 hour^{-1} and ~1,000 hour^{-1}, in a pilot-plant and in a semi-production scale unit, with reactors of different holding

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USSR/Chemical Technology. Chemical Products and Their Application -- Treatment of natural gases and petroleum. Motor fuels. Lubricants, I-13

Abst Journal: Referat Zhur - Khimiya, No 2, 1957, 5554

Abstract: capacity. It was found that the products obtained on synthesis over an iron base catalyst consist essentially of saturated and unsaturated hydrocarbons (H) of paraffin series, and oxygen-containing (OC) compounds, the saturated H being mostly of normal structure. The iso-compounds show little branching and contain, on the average, 1-1.5 branchings per molecule. Among the unsaturated H predominate trans-isomers and alpha-olefins. OC obtained in the synthesis over K-1 consist essentially of alcohols, those obtained over K-2 -- of ethers and alcohols. It is proposed to make provisions, in the system of processing of the products of synthesis from CO and H_2, for a separation of the alcohols and utilization of unsaturated H for the prepa-

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KHEYFETS, Ye. M.

65-1-10/14

AUTHORS: Kheyfets, Ye. M., Lipovskaya, K. S., Il'in, B.L., and Mukhina, A.V.

TITLE: Synthetic Ceresine, its Properties and Uses. (Sinteticheskiy tserezin yego svoystva i primeneniye).

PERIODICAL: Khimiya i Tekhnologiya Topliv i Masel, 1958, No.1. pp.52-57. (USSR).

ABSTRACT: During the catalytic hydrogenation of carbon monoxide, products are obtained which contain mainly paraffin hydrocarbons e.g. methane, and also high-molecular hard paraffins (Refs.1-3). The fraction of synthetic hydrocarbons, boiling above 450°C, is called ceresine. This compound is obtained by synthesizing it over a cobalt-thorium catalyst. It consists mainly of n-paraffin hydrocarbons with a small amount of mixtures of oxygen-containing compounds (about 5%). Synthetic ceresine does not contain naphthenic or aromatic hydrocarbons but asphaltenes, resinous and sulphur containing compounds which are characteristic for high-molecular products obtained from crude oil. Industrial ceresine has a molecular weight of about 900, but hydrocarbons with a molecular weight up to 23,000 have been prepared

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Synthetic Ceresine, its Properties and Uses. 65-1-10/14

under laboratory conditions, by using different catalysts (Ref.4). The synthetic ceresine is dark brown. The colour is due to admixtures, which can be separated by an absorption process, using bleaching earths, or by treating it with sulphuric acid. Data in Table 1 show that a small change in the molecular weight of synthetic ceresine causes a sharp increase in the density and the viscosity of the material. At 20°C the density varies between 0.91 - 0.92 and the viscosity between 105°C - 110°C varies between 2.80 - 6.20 centistokes. Experiments show that at low concentrations (up to 1%) synthetic ceresine samples, when heating them to a temperature between 60°C - 70°C, can be dissolved in benzene, carbon tetrachloride, toluene, xylene and in synthol fractions (boiling between 80°C - 300°C). The diagram in Fig.1 shows the relationship between the melting point, the molecular weight and the number of carbon atoms in the molecule of a number of n-hydrocarbons. The hardness of synthetic ceresine can be increased by distilling the fraction boiling below 450°C. When synthetic ceresine is added to very soft natural ceresine

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Synthetic Ceresine, its Properties and Uses. 65-1-10/14

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Synthetic Ceresine, its Properties and Uses. 65-1-10/14

The frost-resisting and anti-corrosive properties of the compound were investigated by NII and VIAM. Synthetic ceresine is used in the form of its alloys in various branches of industry, e.g. in the textile industry, in the paper, timber and leather industries. There are 7 Tables, 1 Figure and 7 References: 4 Russian, 3 German.

ASSOCIATION: VNII NP.

AVAILABLE: Library of Congress.

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"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722010012-6

SOV/65-58-9-10/16

AUTHORS: Kheyfets, Ye. M; Milovidova, N. V. Zel'vyanskaya, Ye. B; Il'in, B. I; Yudakova, R. N; Rapoport, I. B.

TITLE: The Preparation of Detergents From Olefins. (Polucheniye moyushchikh veshchestv iz olefinov)

PERIODICAL: Khimiya i Tekhnologiya Topliv i Masel, 1958, Nr 9, pp 48 - 54, (USSR)

ABSTRACT: C_8 - C_{18} olefins are used as raw materials in the preparation of secondary alkyl sulphates. These compounds are marketed in the West under the trade name "Teepol". More raw materials become available when C_5 - C_8 unsaturated hydrocarbons are utilized. The latter are obtained in considerable quantities during the Fischer-Tropsch process and during the cracking of paraffin. These olefins can be polymerised to di- and trimers over Mo-and Ni-catalysts. Preliminary investigations confirmed literature data on the possibility of preparing olefins boiling between 150° - 300°C by dehydrogenation of paraffins boiling within the same limits. Thus it was possible to use paraffin obtained during the carbamide deparaffination of diesel oil for the preparation of "Teepols". Olefins obtained in this way occur in a mixture with saturated paraffins and are treated with sulphuric acid.

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During this process dialkyl sulphates and polymerised olefins are formed (Ref.18). The yield and quality of the products is influenced by the concentration of H_2SO_4, by the molar ratio H_2SO_4-olefins, the temperature and length of the reaction, by the conditions of mixing the raw material and the reagents, and by the conditions of neutralisation and hydrolysis. This method was used for the preparation of detergents from different starting materials containing varying amounts of unsaturated hydrocarbons. Synthesis gas, cracked paraffin and dehydrogenated paraffins were used as starting materials. Their content in unsaturated hydrocarbons varied between 7 and 68% (Table 1). Process conditions were such that minimal side reactions of polymerisation and formation of dialkyl sulphates were achieved. These products were sulphonated in a glass apparatus (Fig.1), and contacted with H_2SO_4 for 20 - 70 seconds. The reaction products were neutralised with a 35% solution of NaOH and the formed dialkyl sulphates hydrolised for two hours at 70°. The unreacted hydrocarbons and formed polymers were separated from the aqueous alkyl sulphate solution by settling and extraction. They were treated with

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Na_2CO_3 and concentrated over a water bath. The final product, depending on the concentration of the active substance, appeared as a powder (containing about 20% of active substance) or as a paste (approximately 50% of active substance). Aqueous alkyl sulphate solutions of given concentration were also prepared (Ref.10) Results of tests carried out on the sulphonation of narrow fractions containing mainly C_{10}, C_{12}, C_{13} and C_{15}-C_{17} fractions are tabulated (Table 2). Table 3: data on the preparation of detergents from olefins contained in the 180° - 320°C fraction made by synthesising the same over Fe-Cu catalyst. The largest rate of conversion was achieved when the molar ration of C_nH_{2n} - H_2SO_4 = 1:2. Sulphonation experiments on various raw materials (Table 4) proved that the depth of conversion in one operation amounted to 73 - 81%. The remaining 19 - 27% of olefins can be used for a second sulphonation operation. Further experiments were carried out on the 180 - 320° fractions containing 32% olefins in order to separate the excess H_2SO_4 and re-use of the same in the cycle. According to the conclusions of A. Yu. Rabinovich and M. S. Il'in of the Moscow Branch of VNIIZh

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The Preparation of Detergents From Olefins. SOV/65-58-9-10/16

the prepared detergents showed good surface-active properties. The most satisfactory results were obtained with solutions prepared from narrow fractions containing mostly C_{12} and C_{15} - C_{17} hydrocarbons and from the 230 - 320°C fraction. The detergent action of aqueous solutions can be further improved by the addition of carboxymethylcellulose. There are 4 Tables, 1 Figure and 19 References: 5 English, 1 French and 13 Soviet.

ASSOCIATION: VNII NP

1. Detergents--Preparation 2. Detergents--Materials
3. Ethylenes--Polymerization 4. Methanes--Fractionation

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KHEYFETS, YE.M.

PHASE I BOOK EXPLOITATION SOV/4579

Konferentsiya po razvitiyu proizvoditel'nykh sil Vostochnoy Sibiri, 1958.
Khimicheskaya sektsiya

Khimicheskaya promyshlennost'; trudy konferentsii (Chemical Industry; Transactions of the Conference on the Development of Production Forces in Eastern Siberia) Moscow, Izd-vo AN SSSR, 1960. 202 p. (Series: Razvitiye proizvoditel'nykh sil Vostochnoy Sibiri) Errata slip inserted. 2,000 copies printed.

Sponsoring Agency: Akademiya nauk SSSR. Sovet po izucheniyu proizvoditel'nykh sil. Sibirskoye otdeleniye.

Editorial Board: I.P. Bardin (Deceased) Chief Ed., Academician; M.A. Lavrent'yev, Academician; S.I. Vol'fkovich, Academician, V.I. Dikushin, Academician; V.S. Nemchinov, Academician; V.I. Veyts, Corresponding Member, Academy of Sciences USSR; O.D. Levitskiy, Corresponding Member, AS USSR; N.N. Nekrasov, Corresponding Member, AS USSR; L.V. Pustovalov, Corresponding Member, AS USSR; T.S. Khachaturov, Corresponding Member, AS USSR; N.F. Rostovtsev, Academician, VASKhNIL; A.N. Popov, Corresponding Member, Academy of Building and Architecture USSR; L. Ye. Grafov, Deputy Chairman, Gosplan RSFSR; A.D. Gashev, Member, Gosplan RSFSR; A. Ye. Probst, Professor; V.F. Vasyutin, Professor; V.A. Krotov, Professor; P.V. Vasil'yev, Doctor of Economic Sciences; G.I. Lyudogovskiy, Candidate of Technical Sciences; P.A. Letunov, Candidate of Geological and Mineralogical Sciences; and N.G. Shkol'nikov, Candidate of Economic Sciences; Editorial Board of this volume: S.I. Vol'fkovich (Resp. Ed.); G.V. Uvarov, Deputy Chairman, State Committee on Chemistry, Council of Ministers USSR; and V.P. Komarov, Docent; Ed. of Publishing House: A.L. Bankvitser; Tech. Ed.: V.V. Bruzgul'.

PURPOSE: This book is intended for chemical engineers and economic planners concerned with the industrial development of Eastern Siberia.

COVERAGE: This volume is one of a series of 13 containing the Transactions of the Conference on the Development of the Productive Forces in Eastern Siberia. The Conference took place in August 1958. The volume contains summaries of 20 reports presented at the meetings of the Chemical Section of the Conference, brief summaries of pertinent discussions, and the text of resolutions taken by the Chemical Section. The reports deal with the possibilities of developing chemical industries in Eastern Siberia capable of producing artificial fibers, acetylene, plastics, synthetic detergents, synthetic rubber, mineral fertilizers, sulfuric acid, nitrogen, soda, chlorine, etc. No personalities are mentioned. There are no references.

Birger, G. Ye. [Candidate of Economic Sciences, VNIIV], and Z.A. Rogovin [Professor, Moskovskiy tekstil'nyy institut (Moscow Textile Institute)]. Ways of Developing the Artificial and Synthetic-Fiber Industry in Eastern Siberia 57

Petrov, A.D. [Corresponding Member, AS USSR, Institut organicheskoy khimii imeni N.D. Zelinskogo AN SSSR (Institute of Organic Chemistry imeni N.D. Zelinskiy, AS USSR)]. Ye. A. Chernyshev [Candidate of Chemical Sciences, Institute of Organic Chemistry imeni Zelinskiy, AS USSR], V.F. Mironov [Candidate of Chemical Sciences, Institute of Organic Chemistry imeni Zelinskiy, AS USSR], and B.A. Sokolov [Candidate of Chemical Sciences, Institute of Organic Chemistry imeni Zelinskiy, AS USSR]. Prospects for the Development of the Synthesis of Monomeric Organosilicon Compounds 65

Orechkin, D.B. [Candidate of Technical Sciences], and V.V. Veselov. Prospects for the Production of Synthetic Detergents in Eastern Siberia 72

Radkovskiy, D.M. [Candidate of Chemical Sciences, VNIINeftekhim]. Production of Flotation Agents for Nonferrous and Rare-Metal Ores 78

I.B. Rapoport [Professor, VNIINP (All-Union Scientific Research Institute for the Processing of Petroleum and Gas and for the Production of Synthetic Liquid Fuel)], V. Ye. Kruglikov [Candidate of Technical Sciences, VNIINP], and Ye. M. Kheyfets [Candidate of Technical Sciences, VNIINP]. Prospects of Using Gases Containing Carbon Monoxide and Hydrogen for the Synthesis of Chemical Products and Fuels 85

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B162/B101

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AUTHORS: Fal'kovskaya, A. A., Vavul, A. Ya., Kheyfets, Ye. M., Rapoport, I. B., Listov, V. A., Petyakina, Ye. I.

TITLE: Efficiency of some molybdenum and organosulfur compounds as antiwear additives to lubricating materials

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 5, 1962, 530, abstract 5M224 (Sb. "Prisadki k maslam i toplivam", M., Gostoptekhizdat, 1961, 71-79)

TEXT: It is shown that the additive Б-15/30 (V-15/30), containing a complex compound of Mo, greatly improves the antiwear properties of mineral and synthetic lubricating materials; its action is particularly effective when used jointly with organic compounds containing S, Cl, and other elements. A disadvantage of the additive is its unsatisfactory thermal stability in certain high-temperature lubricating materials. The Mo-organic additive Б-15/1 (B-15/1) can be used for preliminary application of antifriction noncorroding films on friction surfaces; in this case, th

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E073/E335

AUTHORS: Kheyfets, Ye.M., Rapaport, B.M. et al.

TITLE: Development of the carbamide method of separation of oxygen-containing substances into compounds with a normal and with isostructure.

PERIODICAL: Chemie a chemická technologie; Přehled technické a hospodářské literatury, v. 19, no. 4, 1962, 175, abstract Ch 62-2391 (Khimiya i tekhnologiya topliv i masel, no. 1, 1962, 60 - 64)

TEXT: In the same way as for hydrocarbons, the formation of carbamide complexes can be applied to the separation of normal and isomeric alcohols. The conditions were determined under which it was possible to separate similarly normal and isomeric higher alcohols which, in the given case, were prepared from H_2 and CO. Carbamide was applied in the solid fo[illegible] and as an aqueous solution and in methanol. The factor[illegible] nfluencing the yield of products were investigated. 2 diagrams, [illegible] tables, 10 references.

[Abstracter's note: this is a complete translation.]

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"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722010012-6

KHEYFETS, Ye.M.; MILOVIDOVA, N.V.; RAPOPORT, I.B.; YUDAKOVA, R.N.; ZEL'VYANSKAYA, Ye.B.

Synthesis of secondary alcohols and their esters from olefins. Neftekhimia 2 no.1:91-99 Ja-F '62. (MIRA 15:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut po pererabotke nefti i gaza i polucheniyu iskusstvennogo zhidkogo topliva.
(Alcohols) (Esters) (Olefins)

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KHEYFETS, Ye.M.; MILOVIDOVA, N.V.; YUDAKOVA, R.N.; ZEL'VYANSKAYA, Ye. B.; RAPOPORT, I.B.

Obtaining detergents (secondary alkyl sulfates) from olefins. Trudy VNII NP no. 9:81-94 '63. (MIRA 17:6)

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"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722010012-6

RAPOPORT, B.M. [deceased]; KHEYFETS, Ye.M.; LENTSNER, E.S.; CHERNYAK, S.M.; RAPOPORT, I.B.

Separating oxygen-containing compounds from their mixtures with hydrocarbons. Trudy VNII NP no. 9:197-213 '63. (MIRA 17:6)

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"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722010012-6

ITSIKSON, L.B.; MEDOVIKOVA, N.Ya.; KHEYFETS, Ye.M. [deceased]; RAPOPORT, I.B.

Use of type NaA synthetic zeolites in the drying of alcohols. Khim. i tekh. topl. i masel 10 no.8:25-27 Ag '65. (MIRA 18:9)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut po pererabotke nefti i gazov i polucheniyu iskusstvennogo zhidkogo topliva.

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KHEYFETS, Ye. S.

25(4) 23 (5) SOV/77-4-2-15/18

AUTHOR: Lyalikov, K.S.

TITLE: Successes of Soviet Electrophotography (Uspekhi sovetskoy elektrofotografii) A Scientific and Technical Conference on Questions of Electrography (Nauchno-tekhnicheskaya konferentsiya po voprosam elektrografii)

PERIODICAL: Zhurnal nauchnoy i prikladnoy fotografii i kinematografii, 1959, Vol 4, Nr 2, pp 149-152 (USSR)

ABSTRACT: This is an account of a scientific and technical conference on electrography, the first to be held in the Soviet Union and evidently in the world. It was organised in Vil'nyus on December 26-29, 1958 by the Soviet narodnogo khozyaystva Litovskoy SSR (Council for National Economy of the Lithuanian SSR), the Gosudarstvennyy nauchno-tekhnicheskiy komitet Soveta ministrov Litovskoy SSR (State Scientific and Technical Committee of the Council of Ministers of the Lithuanian SSR) and the Nauchno-issledovatel'skiy institut elektrografii (Scientific Research Institute of Electrography). The conference, attended by over 300 scientific workers, was opened by the Deputy Chairman of the Council for National Economy of the Lithuanian SSR P.A. Kul'vets, after which the director of the Institute for Electrography, I.I.Zhilevich, reviewed the state and prospects for development of electrography in the USSR. He stated that research in this field should be carried out along the following lines: a) a search for new photo-active materials with high dark resitance; b) physical research into the internal photoeffect; c) development of photosemiconductor layers; d) development of the theory of the electrophotographic process. K.S. Lyalikov (speaking also for O.G. Popova) gave a report in which he suggested determining the light sensitivity of electrophotographic layers in GOST units. N.Z. Plavina (speaking also for I.I.Zhilevich, L.I.Byun'ko, E.N.Markevich, B.I. Kalinauskene and O.M. Savyzdis) reported on some research on the sensitization of a semiconductor in electrophotographic layers. V.M. Fridkin gave a report on highly sensitive electrophotographic layers and an electrophotocopying device, and [illegible] the latent electrophotographic image [illegible] He also described the design of an electrosensitometer for determining sensitivity by the relaxation period of a charge on the surface of the layer, and the circuit of an electrophotographic copying device. Anfilov finished describing the latter and then spoke on the mechanics and kinetics of the development of the latent electrophotographic image in liquid developers.

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SOV/77-4-2-15/18

Successes of Soviet Electrophotography; A Scientific and Technical Conference on Questions of Electrography

K.N. Vinogradov described some of the features of the cascade and liquid methods of electrophotographic development. Yu.Ye. Karpeshko devoted his report to the criterion of light sensitivity of the electrophotographic process. After the reports, a discussion took place on methods of determining the light sensitivity of electrophotographic layers. A.N. Chernyshev spoke on the prospects of developing polygraphic processes using electric and magnetic forces. O.V. Gromov (speaking also for I.I. Zhilevich, A.A. Sukhiy, V.A. Gordeyeva, A.S. Pausha and Yu. I. Kevalaytis) reported on the development of electrophotographic reproducing equipment. A.S. Pausha (speaking also for I.I. Zhilevich, A.S. Borisovich, N.M. Gal'vidiks and M.I.Kautkauskas) reported on the use of electrographic methods in recording oscillographs and other recording instruments. V.P. Yurchenko (speaking also for L.N.Balin) spoke on the possibility of electrophotographically recording images from electron-beam tubes. L.S. Korol' (speaking also for N.N. Markevich, T.I. Kozlovskaya, B.I. Kalinauskene, M.K. Naynens, I.I. Zhilevich and E.A. Montrimas) gave a detailed description of laboratory and machine methods of producing photosemiconductor papers (zinc oxide was used). A.A. Sukhiy (speaking also for I.I. Zhilevich, O.V. Gromov, V.A. Gordeyev, N.V. Fedotov and T.N. Ger) described a laboratory and industrial machine for producing photosemiconductor papers. T.A. Shishkina (speaking also for Ya.A. Oksman) reported on a method of examining electrophotographic materials using an a/c bridge. S.I. Khotyanovich (speaking also for A.I. Gikens and I.S. Shileykens) spoke on developing materials for electrophotography and ferromagnitography, including developers giving a "reverse" image. B.I. Tikhonov reviewed methods of measuring the electrostatic potentials of electrophotographic layers, stressing that the oscillating electrode should not be placed above a layer with varying potential as this causes self-discharge. E.V. Krukovskis (speaking also for R.G.Gorevoy, A.V.Osipov and S. Kheyfets) spoke on the practice of producing velveteen papers in an electrostatic field, and showed samples produced by the Grigishskaya paper factory. Ye.L. Nguirovskiy then gave a historical review of the development of electrographic methods in which he paid tribute to the work of the Scientific Research Institute of Electrography in Vil'nyus and the Institut poligraficheskogo mashinostroyeniya (Moskva)-(Polygraphic Machine-Building Institute (Moscow)). Debates were then held

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on methods of measuring the potential of charged electrophotographic layers; the vibration pick-up most-used was shown in B.I. Tikhonov's report to be not always accurate. S.G.Grenishin stated that the bad influence of the oscillating electrode can be eliminated if the electrode probe above its surface is fixed and the pick-up is connected to it by a shielded cable. In the debate on Ye.L. Nemirovskiy's report it was stated that the research of Academicians A.N. Terenin and Ye.K. Putseyko should be considered as the basis of all work on electrophotographic papers with ZnO, as they were the first to show the possibility of optical sensitization of the internal photoeffect in ZnO. M.M.Golovidis then gave a report on the depositing of charges by a corona discharge. A.I. Kazinskas and A.P. Yapulis reviewed some of the results of the use of electrographic methods in radiography. L.I. Nyun'ko (speaking also for I.I. Zhilevich, I.Z. Plawin, Yu.K. Vishchakas and Yu.A.Zibute) reported on relaxation processes in semiconductor layers, using a vibration electrometer. Yu.K.Vishakas gave a report on research on some physical properties of the polycrystalline layers of selenious cadmium. K.P. Nikalkyavichyus spoke on some of the photoelectric properties of Sb_2S_3 and Sb_2Se_3: the absorption maximum of the latter is about 900 m μ. S.M. Kerpan reported on methods of obtaining selenium light-sensitive layers, including sublimation and thermal treatment; it was also found that the sensitivity of the layers increased after storage for 1.5 to 2 months at room temperature. P.M. Podvigalkin (speaking also for S.G.Grenishin) spoke on research into the electrical properties of electrophotographic layers of amorphous selenium and powdered zinc oxide. N.K. Shiktorov (speaking also for A.S. Taurayitis) discussed the production of selenium layers and some of their properties. Finally the following reports on ferromagnetography were delivered; 1) B.Ya. Kaznacheyev, V.M.Zhogina, "Electrodeposition of Magneto-hard Alloys with Given Magnetic Characteristics" 2) M.T.Arutyunov, "Visualization of Magnetic Oscillograms by the Ferrographic Method" 3) V.T.Patrunov, "Ferrographic Recording of Facsimile Images" 4) I.I.Zhilevich, I.I. Gikis, B. Ye. Buchek, I.I. Naynise, A.K.Kizhis, "Mock Experiments in Non-Pressure Ferromagnetic Printing". There was also an exhibition showing the work of the Electrographic Institute. The most important conclusion of the conference was that a solid approach had been made to the possibility of wide technical use of the methods of electrography. It was considered that although work in this field actually started only in 1955-56 it has covered as much ground as the USA in 10 years. While admitting that it was easier to reproduce results already achieved than to be the first to arrive at them, the conference observed that the Americans took good care that no important information appeared in the literature available.

Card 10/10

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"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722010012-6

PULATOVA, E.Ye., kand.med.nauk; KHEYFETS, Yu.B., mladshiy nauchnyy sotrudnik; SAAKYAN, Dzh.G., starshiy laborant

Phagocytosis and change in the glycogen content of blood cells and hemopoietic organs in irradiated animals. Vop. radiobiol. AN ARM. SSR 2:113-120 '61. (MIRA 18:4)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722010012-6"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722010012-6

PAREYSHVILI, Ye.A., starshiy nauchnyy sotrudnik; PULATOVA, E.Ye., kand.med. nauk; KHEYFETS, Yu.B., mladshiy nauchnyy sotrudnik; BATIKYAN, I.G., mladshiy nauchnyy sotrudnik; SAAKYAN, D.G., starshiy laborant

Changes in some metabolic processes of the blood cells and hemopoietic organs following whole-body X-ray irradiation. Vop. radiobiol. AN ARM. SSR 2:63-74 '61.

Changes in the blood and hemopoietic organs shortly after castration and following whole-body X-ray irradiation. Ibid.:75-88 (MIRA 18:4)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722010012-6"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722010012-6

PAREYSHVILI, Ye.A.; OGANDZHANYAN, E.Ye.; KHEYFETS, Yu.B.

Effect of different doses of synestrol on blood formation and viability of irradiated black mice at the line C57. Radiobiologiia 3 no.3:447-452 '63. (MIRA 17:2)

1. Sektor radiobiologii AN ArmSSR, Yerevan, i 1-y Moskovskiy meditsinskiy institut im. I.M. Sechenova.

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722010012-6"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722010012-6

KHEYFETS, Yu.B.; SHABADASH, A.L.

Comparative study of early glycogen changes in the leucocytes after irradiation in vivo and in vitro. Dokl. AN Arm. SSR 37 no.2:103-106 '63. (MIRA 17:2)

1. Predstavleno akademikom AN Armyanskoy SSR G.Kh. Bunyatyanom.

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722010012-6"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722010012-6

KHEYFETS, YU. B., PAREYSHVILI, YE. A., PULATOVA, E. YE.

"Changes in the Cells of the Blood and Hematogenic Organs During the Action of Ionizing Radiation."

report submitted for the First Conference on the problems of Cyto and Histochemistry, Moscow, 19-21 Dec 1960.

Division of Radiobiology of the Academy of Sciences Armenian SSR, Yerevan.

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44569

S/739/60/001/000/006/015
E020/E185

27.1220

AUTHOR: Kheyfets, Yu.B., Junior Scientist

TITLE: Changes in the glycogen of leucocytes under the influence of ionizing radiation (histochemical investigation)

SOURCE: Akademiya nauk Armyanskoy SSR. Sektor radiobiologii. Voprosy radiobiologii. v.1, 1960, 87-91

TEXT: Thirty mice were subjected to a dose of 800 r of X-irradiation, and smears of blood made from them at intervals up to 72 hours thereafter were stained for glycogen by the method of Shabadash. A fall in the intensity of staining was noted in the leucocytes after 5 minutes, and after 20 minutes cells were present which contained no glycogen. These changes gradually became more marked until 12 hours after irradiation, when cells containing more than the normal amount of glycogen began to appear against a background of gradually intensifying leukopenia. The rise in glycogen constant was only temporary, and a fall set in after 24 hours which continued until the death of the animal.

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Changes in the glycogen of leucocytes... S/7 9/60/001/000/006/015
E02 /E185

The present paper was reported at the Scientif c Session of the Section (April 5 and 6, 1960).
There are 2 figures.

ASSOCIATION: Sektor radiobiologii AN ArmSSR
(Radiobiological Section, AS Arm. SSR)

X

Card 2/2

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"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722010012-6

44578

S/739/60/001/000/015/015
E020/E185

27.1220

AUTHORS: Vlasenko, S.P., Candidate of Medical Sciences; Kheyfets, Yu.B., Junior Scientist; and Chil-Akopyan, L.A.

TITLE: The effect of ionizing radiation upon oxygen consumption and certain aspects of carbohydrate metabolism

SOURCE: Akademiya nauk Armyanskoy SSR. Sektor radiobiologii. Voprosy radiobiologii. v.1, 1960, 191-196

TEXT: An investigation was made of the effects of insulin and X-irradiation given singly or in combination, upon the oxygen consumption, blood-sugar level and glycogen content of the leucocytes in rats. Exposure to 600 r was followed by a fall in all these quantities, which attained minimum values after 1.5-3 h. A return to normal levels occurred after 24 hours. In animals given a single dose of insulin without irradiation the blood sugar and oxygen consumption fell similarly, but a rise in glycogen content of the leucocytes occurred after 1.5-3 hours and persisted for 24 hours. The combined action of insulin and irradiation did

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The effect of ionizing radiation ... S/739/60/001/000/015/015
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not lead to any notable changes in these findings.
There are 3 figures.

Card 2/2

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"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722010012-6

VLASENKO, S.P., kand.med.nauk; KHEYFETS, Yu.B., mladshiy nauchnyy sotrudnik; CHIL-AKOPYAN, L.A.

Effect of ionizing radiation on the consumption of oxygen and some aspects of carbohydrate metabolism. Vop. radiobiol. [AN Arm. SSR] 1:191-197 '60. (MIRA 15:3)

(RADIATION—PHYSIOLOGICAL EFFECT)
(CARBOHYDRATE METABOLISM)
(OXYGEN IN THE BODY)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722010012-6"

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L 11218-63 EWT(1)/EWT(m)/BDS--AFFTC/AMD/ASD--AR/K
ACCESSION NR: AP3001072 S/0205/63/003/003/0447/0452 57 56

AUTHOR: Pareyshvili, Ye. A.; Ogandzhanyan, E. Ye.; Kheyfets, Iu. B.

TITLE: Effect of various doses of synestrol on hematosis and survival of irradiated black mice of strain C sub 57 14

SOURCE: Radiobiologiya, v. 3, no. 3, 1963, 447-452

TOPIC TAGS: synestrol, hematosis, sex hormones, survival

ABSTRACT: The effects of estrogen (synestrol) were investigated as part of a larger study to determine the nature of blood system radiation injuries with administration of sex hormones. Experiments were conducted on sexually mature male and female mice. They were irradiated with a single total dose of 600 r by a RUM-3 and were divided into five groups for different synestrol dosages. Criteria indices were: 1) survival to the 28th day after irradiation, 2) weight change, 3) number of leucocytes and erythrocytes and percentage of hemoglobin. Results show that a single dose of 0.1 cc of a 2% oil solution of synestrol 7 days before irradiation has a beneficial effect on acute radiation sickness and increases survivability from 1.9 to 27.3%, but multiple doses do not have any positive effects. As for the peripheral blood, a preliminary single dose of synestrol does not prevent sharp

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L 11248-63
ACCESSION NR: AP3001072

hematosis inhibition the first few days of radiation sickness, it does result in earlier regeneration of blood elements and restorative processes in the organism which are more intense than in the control group. Multiple doses aggravate the inhibiting action of ionizing radiation in hematosis and retard the onset of the restorative processes. Orig. art. has: 2 tables.

ASSOCIATION: Sektor radiobiologii AN ArmSSR, Yerevan; 1-y Moskovskiy meditsinskiy institut im. I. M. Sechenova (Department of Radiobiology, AN ArmSSR; First Moscow Medical Institute)

SUBMITTED: 05Jun62 DATE ACQD: 01Jul63 ENCL: 00

SUB CODE: 00 NO REF SOV: 012 OTHER: 006

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APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722010012-6"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722010012-6

SHABADASH, A.L. (Moskva, G-151, prospekt Kutuzova, 24, kv. 114); KHEYFETS, Yu.B.

Cytochemistry of the blood glycogen in mammals after a single total-body X-ray irradiation. Arkh. anat., gist. i embr. 43 no.12:29-35 D'62 (MIRA 17:5)

1. Institut biolgicheskoy fiziki AN SSSR. Adres Kheyfetsa: Moskva, Institut biologicheskoy fiziki AN SSSR.

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722010012-6"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722010012-6

KHEYFETS, Yu.B., mladshiy nauchnyy sotrudnik; SHABADASH, A.L., prof.

Characteristics and differences of glycogen loss by leucocytes after X-ray irradiation of the blood in vitro and in the body. Vop. radiobiol. [AN Arm. SSR] 3/4:235-240 '63.

(MIRA 17:6)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722010012-6"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722010012-6

GOL'DMAN, A.I.; KHEYFETS, Yu.Ch.; GREBENKIN, V.S.; OLENICH, V.A.

Casting internal sleeves for diesel cylinders. Lit.proizv. no.7:5-6 Jl '62. (MIRA 16:2)

(Diesel engines—Cylinders)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722010012-6"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722010012-6

KHEYFETS, Z. I.

10

Separation of the sulfonic acids of phenanthrene. Z. I. Kheifets. *Trudy Leningrad. Khim.-Tekh. Inst.* 1938, No. 6, 235-8; *Khim. Referat. Zhur.* 1, No. 11-12, 137(1938).—Attempts to sep. the 2- and 3-sulfonic acids of phenanthrene according to the method of I. S. Ioffe (*C. A.* 28, 1604[9]) were unsuccessful. The isomeric acids could not be sepd. After the alk. fusion the Ba salt of the sulfonic acid gave a HO deriv., m. 108-9° [pure 2-phenanthrol m. 109°]. Repeated crystn. of the product from ligroin and from petr. ether, sepn. of phenanthrol with ligroin from solns. in benzene and $CHCl_3$, transformation through the K salt and chloride (by means of PCl_5) and other methods gave neg. results. From a partial pptn. by means of $BaCl_2$ from the soln. of Na salts of the sulfonic acids a ppt. of the Ba salt of the sulfo-2-acid was obtained. 2-Phenanthrol obtained from it and recrystd. from ligroin m. 107°. The ppt. obtained from the filtrate and from wash waters was not the pure salt. It was transformed into the K salt and was again pptd. with $BaCl_2$. The phenanthrol obtained from the K salt of the 3-acid prepd. by the method of Ioffe m. 98-100°, after recrystn. m. 103-4° (the pure 3-phenanthrol m. 121°). The 3-acid was obtained separately from the initial soln. after the 2nd pptn. with $BaCl_2$ without any addn. of the wash water. Ba was pptd. from the initial soln. with H_2SO_4, and was neutralized by means of KOH. The K salt of the 3-acid was salted out from a hot soln. of KCl, and was recrystd. The phenanthrol from this salt (after recrystn. from ligroin) m. 118-19°.

W. R. Henn

ASM SLA METALLURGICAL LITERATURE CLASSIFICATION

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"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722010012-6

Azo derivatives of the phenanthrene series. Yu. S. Zal'kind and Z. I. Khelfets (Leningrad Chem. Tech. Inst.). *J. Gen. Chem.* (U.S.S.R.) 15, 368-74(1945)(English summary).—Eight azo dyes based on phenanthrene were prepd. and their spectra are presented. The 3-phenanthryl nucleus causes but slight deepening of color as compared with $C_{10}H_7$, while the 2-phenanthryl radical causes substantial color deepening. Phenanthrene (100 g.) was treated at 143° over 20 min. with 54 g. concd. H_2SO_4, after which the mixt. was heated for 20 min. longer; after pouring into 1 l. 20% NaCl and neutralization with NaOH the mixt. was allowed to stand for 24 hrs., when the ppt. was filtered off, recrystd. from 1.5 l. water, dissolved in 2 l. H_2O, and, after addn. of a little HCl, was treated with a soln. of 18 g. $BaCl_2$. The pptd. Ba salt was thoroughly washed with hot water and the residue collected as Ba 2-phenanthrenesulfonate (15.5%). The filtrates on concn. and treatment with 5 g. $BaCl_2$ gave 10-11 g. more of the above Ba salt contaminated with some of the 3-isomer; repetition of the procedure yields an unspecified amt. of the pure 2-isomer. All filtrates were treated with H_2SO_4, neutralized, after filtration, with KOH and treated with KCl while hot to yield 32 g. of the K 3-phenanthrenesulfonate; addnl. amts. of this acid were obtained as the Ba salt from the filtrate by addn. of $BaCl_2$; the total yield of the 3-isomer was 31.0%. Fusion with an equal mixt. of KOH-NaOH at 250-300° gave 87% 3-phenanthrol (from the 3-sulfonic acid, as K salt), m. 120-1°. Fusion of Ba 2-phenanthrenesulfonate with 3 parts of KOH at 310-20° gave 81.5% 2-phenanthrol, m. 168-9° (from ligroin). Coupling of these phenols with the appropriate diazonium soln. in the presence of NaOH gave the following dyes: *4-phenylazo-2-phenanthrol*, m. 145-6° (from EtOH), deep red (89.1%); *1-phenylazo-2-phenanthrol*, m. 178-80° (from Et_2O), deep red (no yield given); *4-(2-naphthylazo)-3-phenanthrol*, red crystals (no m.p. given) (95.4%); *4-(1-naphthylazo)-3-phenanthrol*, m. 180-7° (from Et_2O), red crystals (88.1%); *1-(2-naphthylazo)-2-phenanthrol*, m. 228-9° (90.8%); *1-(1-naphthylazo)-2-phenanthrol*, gives a yellow color in dil. solns., no m.p. given (91.9%). 3-Phenanthrol (2 g.), 10 cc. 25% NH_4OH, and 4 g. $(NH_4)_2SO_3$ heated in a sealed tube for 28 hrs. at 210-20° gave 75.4% *2-phenanthrylamine*, m. 85°; HCl salt, no m.p. given. Diazotization of this in HCl and treatment with 2-naphthol in NaOH soln. gave *1-(3-phenanthrylazo)-2-naphthol*, red, no m.p. at 300°; coupling with 3-phenanthrol as above gave *4-(3-phenanthrylazo)-3-phenanthrol*, red powder, does not m. 300° (from pyridine). G. M. Kosolapoff

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ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

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KHEYFETS, Z.I.

2

Precipitation chromatography with ion exchangers. I. Chromatograms of cations of the IVth analytical group. V. B. Aleskovskii and Z. I. Kheifets. *Trudy Leningrad. Tekhnol. Inst.* 1953, No. 27, 51-9; *Referat. Zhur., Khim.* 1953, No. 3807.—The micromethod for qual. chromatographic detn. of ions is based on their interaction with ion-exchanging absorber and thereby forming insol. complex compds. A tube 3–4 mm. diam. and 20–30 mm. long is filled with an anionite comminated to 0.1–0.05-mm. particles. Prior to its use the anionite in its chloride form was covered with H_2O for 24 hrs., washed with hot H_2O until the pH of the effluent was approx. 2.5, then with a 3–5% $NaHCO_3$ or Na_2CO_3 soln., then washed with H_2O to pH approx. 7.4–8, and then through the soln. were passed 0.2*N* HI, 0.25*N* K_2CrO_4, or H_2S. Thus, were prepd. absorbents for $Fe(CN)_6^{----}$, PO_4^{---}, AsO_2^-, and SO_4^{--}; 0.03–0.2 ml. soln. was passed through this column over a period of 10 min. with a semimicroburet. Chromatograms of individual ions of the IV analytical group as well as of mixts. of nitrates of 2,3, or 6 of the following ions: Pb^{++}, Hg_2^{++}, Hg^{++}, Ag^+, Bi^{+++}, and Cu^{++} in concns. of 0.25–4.0 mg./ml. showed clear zones of color characteristic for each ion. The zones were arranged from top downward in increasing order of their activity product in satd. salt solns. The color of the zones changed with time. On CrO_4^{--} absorber the chromatograms remained clear and unchanged for a long time. On S^{--} absorber the chromatograms were fairly stable. This method enabled one to detect 25 γ of cations in 0.05 ml. soln.

M. Hosch

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KHEYFETS, Z. I.

Kheyfets, Z. I.

USSR.

*Microdetection of bismuth ions with 8-quinolinol (oxine) and potassium iodide. S. M. Efros, Z. I. Kheifets, and N. Z. Golynko. *Trudy Leningrad. Tekhnol. Inst. im. Lensoveta* No. 27, 119-26(1953); *Referat. Zhur., Khim.* 1954, No. 29310.—The detection of Bi^{+++} by oxine and KI is interfered with by Fe^{+++} and Cu^{++} and other oxidizing agents which liberate I from KI. To remove this interference, oxidizing agents are reduced with $Na_2S_2O_3$ or $SnCl_2$. Five procedures are described for detecting Bi^{+++}, including a drop method and a trituration method.

M. Hosch

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"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722010012-6

KHEYFETS, Z. I.

USSR

Use of base exchangers in determination of sulfur in pyrite. V. B. Aleskovskii and Z. I. Kheifets. *Trudy Leningrad. Tekhnol. Inst. im. Lensoveta* 1953, No. 27, 121-5; *Referat. Zhur., Khim.* 1954, No. 23091.—Pyrite (0.1-0.15 g.) is dissolved in a mixt. of HNO_3 and HCl, the soln. is evapd. to dryness, dissolved in water in 1 ml. concd. HCl, and to it 50 ml. of H_2O is added. The soln. is filtered, washed with hot H_2O until free of Cl^-, and the filtrate passed through a column charged with base-exchange resin SBS, at a rate of 3-4 ml. a min. Through the column is passed 100-150 ml. of hot H_2O to a neg. acid reaction with methyl orange. The total vol. of the soln. is now approx. 250 ml. and to it 3-4 ml. of 10% HCl is added. The soln. is heated to 100° and to it is added 0.5*N* $BaCl_2$ (a 20% excess is used). It is kept for 30-45 min. at this temp. and then cooled for 45 min. The ppt. is filtered off, washed with 1% NH_4NO_3, ignited, and weighed. The results of this analysis are 0.4-0.7% higher than the results obtained by reducing Fe^{+++} with powd. Al. M. Hosch

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[illegible] I. I

Precipitation chromatography with the use of ion exchangers. II. V. B. Aleskovskii and [illegible] Kheifets. [illegible] Leningrad, Tekhnol. Inst. im. Lensovéta 35, 106-[illegible]

[illegible] and [illegible]

[illegible] by means of a Na_2HPO_4 [illegible] and washing with water [illegible]

[illegible]

is then treated with a [illegible] to bleach the blue tone, the appearance of a yellow [illegible] upper layer indicates [illegible] NH_3 [illegible] The presence of Cu, Ag [illegible] usual way [illegible]

[illegible] HNO_3 the Cd appears as a yellow [illegible] J. W. [illegible]

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"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722010012-6

Kheyfets, Z.I.

27

Chromatographic determination of cobalt in the presence [illegible] on exchange resins [illegible] cobalt in the presence of ferric [illegible]

[illegible]

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"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722010012-6

KHEYFETS, L. I.

3598. Determination of boric acid [illegible] ion in nickel electrolytes by [illegible]

[illegible]

100 ml of boiled CO_2 free water [illegible]

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"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722010012-6

KHEYFETS, Z.I.; ALESKOVSKIY, V.B.

Chromatographic determination of cobalt in the presence of interfering ions with the aid of ion exchangers. Report No.2: Determination of cobalt in the presence of bismuth. Trudy LTI no.48:179-181 '58. (MIRA 15:4)

(Cobalt--Analysis) (Bismuth) (Ion exchange)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722010012-6"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722010012-6

ALESKOVSKIY, V.B., prof.; BARDIN, V.V.; BOYCHINOVA, Ye.S.; BULATOV, M.I.; VASIL'YEV, V.P.; DOBYCHIN, S.L.; DUSHINA, A.P.; KALINKIN, I.P.; KEDRINSKIY, I.A.; LIBINA, R.I.; PRIK, K.Ye.; SETKINA, O.N.; KHEYFETS, Z.I.; YATSIMIRSKIY K.B., prof.; VASKEVICH, D.N., red.

[Physicochemical methods of analysis ; a laboratory manual] Fiziko-khimicheskie metody analiza; prakticheskoe rukovodstvo. Moskva, Khimiia, 1964. 451 p. (MIRA 17:12)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722010012-6"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722010012-6

DERHENTSEV, F.F., kand.khim.nauk; KHEYFETS-POLISSKAYA, P.B.

Using reeds in the woodpulp and paper industry. Bum. prom. 33 no.5:14-15 My '58. (MIRA 11:6)

1.Ukrainskiy nauchno-issledovatel'skiy institut tsellyuloznoy i bumazhnoy promyshlennosti.
(Reed (Botany)) (Paper industry) (Woodpulp industry)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722010012-6"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722010012-6

DERBENTSEV, F.F.; KHEYFETS-POLISSKAYA, P.B.

Use of reed in the woodpulp and paper industry. Bum.prom. 33 no.11:9-12 N '58. (MIRA 13:8)

1. Ukrainskiy nauchno-issledovatel'skiy institut tsellyuloznoy i bumazhnoy promyshlennosti.
(Reed (Botany)) (Woodpulp)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722010012-6"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722010012-6

DERBENTSEV, F.F., kand.khim.nauk; KHEYFETS-POLISSKAYA, P.B.

Utilization of reeds in the woodpulp and paper industry. Bum. prom. 34 no.2:9-10 F '59. (MIRA 12:4)

1. Ukrainskiy nauchno-issledovatel'skiy institut tsellyuloznoy i bumazhnoy promyshlennosti.
(Reed (Botany)) (Woodpulp)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722010012-6"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722010012-6

TROFIMOV, M.G.; Prinimali uchastiye: TELIS, M.Ya., inzh.; ZHARKIKH, A.A.; KHEYFIN, V.Z.; PROVOTOROVA, G.V.

Lining of vacuum and open induction smelting furnaces. Lit. proizv. no.8:14-16 Ag '62. (MIRA 15:11)
(Electric furnaces) (Refractory materials)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722010012-6"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722010012-6

KHEYFITS, A.B.; TIMCHENKO, L.A.

Pre- and postoperative application of therapeutic sleep. Khirurgiia, Moskva no.3:15-18 Mar 1952. (CLML 22:1)

1. Docent for Kheyfits.

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722010012-6"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722010012-6

Kheyfits, A.B.

BLYUMIN, I.Sh.(Kuybyshev); KHEYFITS, A.B.(Kuybyshev)

Intraosseous synthesis with plexiglass pins in fractures of long hollow bones. Vest. khir. 76 no.11:80-83 '55. (MIRA 9:4)

(FRACTURES
hollow bones, synthesis with plexiglass)
(ACRYLIC RESIN
polymethacrylic resin in synthesis of long hollow bone fract.)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722010012-6"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722010012-6

KHEYFITS, A.B., dotsent., (Stalinabad)

Treatment of rectal prolapse. Vest. khir. 77 no.1:103-106 Ja '56 (MLRA 9:5)

(RECTUM, dis.
prolapse, surg.)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722010012-6"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722010012-6

KHEYFITS, A.B., dotsent (Krasnodar, ul.Krasnaya, d.186, kv.14)

Radical operations in echinococcosis. Nov. khir. arkh. no.4:117-119 Jl-Ag '60. (MIRA 15:2)
(HYDATIDS) (SURGERY)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722010012-6"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722010012-6

KHEYFITS, A. L.

USSR/Metals May/Jun 1947
Platinum
Meteorological Research

"Investigation of the Purity of Platinum," A. L. Kheyfits, S. M. Katchenkov, 1½ pp

"Iz Ak Nauk SSSR, Ser Fiz" Vol XI, No 3

Very pure platinum is necessary for experiments conducted at the All-Union Research and Investigation Institute of Meteorology at Leningrad, with respect to thermometric, high temperature, photometric and other researches. Discusses the spectral analysis conducted at the optics laboratory by M. F. Romanova, to determine the purity of platinum. As a result of

24T82

this spectral analysis and chemical analysis, it is possible to obtain very pure platinum.

24T82

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APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722010012-6"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722010012-6

KHEYFITS, A.L.

CA

7

Examination of gold and silver for purity. A. L. Kheifits and L. N. Cherezova. *Inst. Akad. Nauk S.S.S.R., Sov. Pis.* 12, 462-3(1948).—Impurities in a high-purity specimen of Au were detd. by spectral analysis of a known, less pure sample, dild. in a known proportion with the high-purity metal. The latter was thus found to be 99.998% pure, with Ag 0.0005, Cu 0.0005, Fe 0.0002, Ca 0.0002%. Si traces. A similar procedure was used for Ag. N. Thon

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"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722010012-6

KHEYFITS, AL.

7

Spectral determination of small quantities of iridium, platinum, and rhodium in palladium. A. L. Khelfits. —*Izvest. Akad. Nauk S.S.S.R., Ser. Fiz.* 14, 606-7(1950).—Samples contg. Ir, Pt, and Rh in concns. of 0.0005-0.02% were excited in an a.-c. arc and in a spark generator; the arc method had the higher sensitivity. Pd, Ir, and Pt were tested as chlorides; Rh could be introduced in standards only as Na_3RhCl_6. Line pairs are indicated for the spark and the arc methods. S. Pakswer

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722010012-6"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722010012-6

GRIGOR'YEVA-BERENSHTEYN, A.G.; KUDYAKOVA, L.I.; KHEYFITS, A.M.

Work in lowering diphtheria morbidity in Petrozavodsk.
Vest. AMN SSSR 17 no.2:56-62 '62. (MIRA 15:3)

1. Leningradskiy nauchno-issledovatel'skiy institut vaktsin i syvorotok.
(PETROZAVODSK—DIPHTHERIA—PREVENTION)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722010012-6"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722010012-6

S/135/60/000/010/012/015
A006/A001

AUTHORS: Kheyfits, D. P., Engineer, Barreras, B., Morozov, A. F., Shpan'ko, G. F., Technicians

TITLE: A Modernized Burner for Welding Thin Metal in Carbon Dioxide 18

PERIODICAL: Svarochnoye proizvodstvo, 1960, No. 10, p. 32

TEXT: A simplified design of a burner for welding in carbon dioxide was developed on the basis of the TsNIITMASh burner and introduced at the Moscow "Gidrooborudovaniye" experimental machine-plant. The burner has the following particular features: 1. Non-ferrous metal parts were partially eliminated; 2. The cooling system was improved thus preventing scorching of the interchangeable burner; 3. The burner has a lighter weight, facilitating its operation. The burner nozzle is made of M1 copper and cooled by running water, circulating between the nozzle and a bushing soldered to it. For the in- and outflow of water to the nozzle copper pipes are used. The carbon dioxide gas enters the welding area through 4 apertures in the ДШ5 (DSh5) holder tip. The nozzle is fixed by a disk and a nut, insulated with asbestos cement gaskets. An exchangeable tip from the ДШ-5(DSh-5) holder is used in the burner. The carbon

Card 1/2

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"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722010012-6

S/135/60/000/010/012/015
A006/A001

A Modernized Burner for Welding Thin Metal in Carbon Dioxide

dioxide gas is supplied to the burner from a cylinder through a hose mounted in the handle and passes through the heater, reductor and a drying device. The tip must be inserted into the nozzle to 10 - 15 mm depth. The throat depth of the electrode from the burner must not exceed 40 mm at an arc ignition of 160 - 180 amps current. During welding the electrode throat is 20 - 25 mm. The burner can be easily assembled and dismounted. Tests made with the burner yielded satisfactory results when welding butt and overlap joints of 4 mm thick "3" grade steel, at 180 amps current and 2 mm diameter Св-10ГС (Sv-10GS) wire. There is 1 figure.

Card 2/2

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722010012-6"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722010012-6

KHEYFITS, [redacted]

Welding of bridge construction spans for the Krasnoyarsk Hydroelectric Power Station. Avtom. svar. 16 no.4:63-64 Ap '63. (MIRA 16:4)

1. TSentral'noye konstruktorskoye byuro Ministerstva energetiki i elektrifikatsii SSSR.
(Krasnoyarsk—Hydroelectric power stations)(Bridges—Welding)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722010012-6"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722010012-6

VANEVSKIY, V.L.; PANASHCHENKO, A.D.; YERSHOVA, T.G.; FEL'DMAN, I.Kh.; KHEYFITS, G.M.

Chemical and pharmacological study of hemithiamine, a new hypnotic preparation. Farm. i toks. 25 no.6:657-662 N-D '62. (MIRA 17:8)

1. Kafedra torakal'noy khirurgii i anesteziologii (zav. - prof. S.A. Gadzhiyev) Leningradskogo gosudarstvennogo ordena Lenina instituta usovershenstvovaniya vrachey imeni S.M. Kirova i kafedra khimii i tekhnologii lekarstvennykh preparatov (zav. - prof. I.Kh. Fel'dman) Leningradskogo khimiko-farmatsevticheskogo instituta.

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722010012-6"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722010012-6

CA KHEYFITS, L.A.

2

Pressure dependence of the rate of dehydrogenation of methylcyclohexane. A. A. Tolstopyatova, L. A. Kheifits, and V. V. Patrikeev (Moscow State Univ.). *Vestnik Moskov. Univ.* 6, No. 2, *Ser. Fiz.-Mat. i Estestven. Nauk* No. 1, 47-56(1951).—On a 28% Pt catalyst, the rate of evolution of H_2 from methylcyclohexane passed at 0.08 ml./min. does not vary with the pressure between 27 mm. Hg and 1 atm. With 0.05 g. catalyst, the rates were, at 289° and 304°, resp., 9.5 and 13.0 cc. (S.T.P.)H_2/3 min. This independence of the pressure indicates probably complete surface coverage. The activation energy, between 250 and 275°, was det. (on 0.6 g. catalyst) to be 18.3 kcal./mole.

N. Thon

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722010012-6"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722010012-6

KHEYFITS, L.A.

BELOV, V.N.; KHEYFITS, L.A.; PETROVA, G.S.

Acetylation of certain aromatic compounds with two tert-butyl groups in the benzine nucleus. Trudy VNIISNDV no.2:9-14 '54. (MLRA 10:7)

(Butyl group) (Aromatic compounds) (Acetylation)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722010012-6"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722010012-6

KHEYFITS, L.A.

BOGDANOV, K.A.; KHEYFITS, L.A.

Formation of disalicylaldehyde in the synthesis of coumarin.
Trudy VNIISNDV no.2:64-66 '54. (MLRA 10:7)
(Salicylaldehyde) (Coumarin)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722010012-6"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722010012-6

KHEYFITS, L.A.

OSIPOVA, T.F.; KHEYFITS, L.A.; VISHNEVSKAYA, A.A.; MOLDOVANSKAYA, G.I.

Increasing the stability of fragrant substances. Report No.1. Trudy VNIISNDV no.2:95-102 '54. (MLRA 10:7)
(Odorous substances)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722010012-6"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722010012-6

KHEYFITS, L. A.

KHEYFITS, L. A. : "Obtaining essential oils from the terpene phenols." Moscow, 1955. Min Food Products Industry USSR. All-Union Sci Res Inst of Synthetic and Natural Essential Oils. (Dissertation for the Degree of Candidate of Chemical Sciences)

SO: Knizhnaya Letopis' No. 47, 19 November 1955. Moscow.

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722010012-6"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722010012-6

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722010012-6"

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APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722010012-6"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722010012-6

KHEYFITS, L.A.

KHEYFITS, L.A., kandidat khimicheskikh nauk; SIMANOVSKAYA, E.A.; BELOV, V.N., professor; IVANOV, P.V.; SHAPIRO, Ye.S., inzhener; BRAYNES, M.Ya., inzhener.

Industrial method for obtaining "santalidol." Masl.-zhir.prom. 23 no.6:35-38 '57. (MLRA 10:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut sinteticheskikh i natural'nykh dushistykh veshchestv (for Kheyfits, Simanovskaya and Belov). 2. Fabrika "Novaya zarya" (for Ivanov). 3. Moskovskiy sinteticheskiy zavod (for Shapiro and Braynes).
(Essences and essential oils) (Phenols)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722010012-6"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722010012-6

Kheyfits, L. A.

Preparation of perfume substa[illegible] hexanol and terpenocyclohex[illegible] [illegible] L. A. Kheifits, Zaut[illegible] [illegible] Reducing 100 g menth[illegible] PhOH 24 hrs [illegible] residue with [illegible] KOH [illegible] [illegible]

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722010012-6"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722010012-6

BELOV, V.H., KH[illegible]

hexanone, b_{1-4} 137–8°, d_{20} 0.9787, n_D^{20} 1.4955 (ammonia [illegible] m 201–2.50°). Small [illegible] methylcyclohexanone [illegible] 138 [illegible]

2/2

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722010012-6"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722010012-6

KHEYFITS, L.A.

Distr: 4E2c(j)/4E4j

Transformation of terpenylcyclohexanones into formyl-terpenyl-cyclohexanes, terpenyl-caprolactones and terpenyl-caprolactams

[illegible]

[illegible] gave a mixt. of 19% starting material and 80% menthyl-caprolactone, the latter [illegible] leaching with Et_2O or by heating with Grand P [illegible] EtOH-AcOH. The pure lactone [illegible] free acid, an oil [illegible] powder. Menthylcyclohexanone [illegible] gave 43.8% menthyl-caprolactam [illegible] bornylcyclohexanone gave an [illegible] hexane gave 61.6% bornyl-caprolactam [illegible] 5183 [illegible] 1.0344. Beckmann [illegible] using PCl_5 in C_6H_6 gave a 65.4% yield [illegible]

[illegible] Sibir Inst. [illegible]

[illegible] Natural Aromatics [illegible]

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722010012-6"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722010012-6

KHEYFITS, L.A.; SIMANOVSKAYA, E.A.; BELOV, V.N.

Some new aromatic substances from terpenophenols. Khim. nauka i prom. 3 no.2:284 '58. (MIRA 11:6)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut sinteticheskikh i natural'nykh dushistykh veshchestv.
(Terpenes) (Phenols)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722010012-6"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722010012-6

5 (2)

AUTHORS: Balandin, A. A., Turova-Polyak, M. B., Levi, G. I., Kheyfits, L. A. SOV/62-59-8-33/42

TITLE: On the Formation of Elementary Phosphorus Under the Effect of Hydrogen and Vapors of Organic Substances on a Phosphoric Acid Catalyst on Activated Coal

PERIODICAL: Izvestiya Akademii nauk SSSR. Otdeleniye khimicheskikh nauk, 1959, Nr 8, p 1499 (USSR)

ABSTRACT: In this short communication the authors report on the conditions and causes of elementary phosphorus forming during work with the above mentioned phosphoric acid catalyst. When hydrogen and vapors of organic substances pass over the catalyst the formation begins at 400° and, in the case of nitrogen, at 600°. Oxygen traces in the vapors prevent phosphorus formation. It is supposed that the phosphorus reduction is effected by the especially active surface atoms of the activated coal and the hydrogen atoms. There is 1 Soviet reference.

Card 1/2

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722010012-6"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722010012-6

On the Formation of Elementary Phosphorus Under the Effect of Hydrogen and Vapors of Organic Substances on a Phosphoric Acid Catalyst on Activated Coal SOV/62-59-8-33/42

ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova (Moscow State University imeni M. V. Lomonosov). Institut organicheskoy khimii im. N. D. Zelinskogo Akademii nauk SSSR (Institute of Organic Chemistry imeni N. D. Zelinskiy, Academy of Sciences, USSR)

SUBMITTED: February 19, 1959

Card 2/2

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722010012-6"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722010012-6

KHEYFITS, L.A., kand.khimicheskikh nauk; KOLOGRIVOVA, N.Ye.; GERASIMOVICH, I.B.

Synthesis of menthol. Zhur. VKHO 5:376-386 '60. (MIRA 13:12)
(Menthol)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722010012-6"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722010012-6

S/079/60/030/04/73/080
B001/B003

AUTHORS: Kheyfits, L. A., Moldovanskaya, G. I., Belov, V. N.

TITLE: Aromatic Substances From Alkyl Phenols. I. Synthesis of Aromatic Substances From Dimethylphenyl-p-cresol

PERIODICAL: Zhurnal obshchey khimii, 1960, Vol. 30, No. 4, pp. 1367-1373

TEXT: Alkyl phenols (Ref. 1) and terpene phenols (Refs. 2-9) are intermediates for the synthesis of aromatic substances. For this purpose the authors used a new product available, 2-(p-oxyphenyl)-2-phenyl propane (I) which is commerically produced in large amounts as "dimethylphenyl-p-cresol". With reference to the investigations of Refs. 1-9 the authors subjected compound (I) to similar reactions (Ref. 10). The hydrogenation of (I) in the presence of the skeleton nickelcatalyst resulted in 2-(4'-oxycyclohexyl)-2-cyclohexylpropane (II). Its acetate (III) is a clear liquid of lower viscosity than that of the initial alcohol. This acetate has no characteristic and strong odor in contrast to the acetate of the p-tertiary-butylcyclohexanol which has a strong flower-like scent. When alcohol (II) is oxidized with a chromate mixture in acetic acid the

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"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722010012-6

Aromatic Substances From Alkyl Phenols. I. Synthesis of Aromatic Substances From Dimethylphenyl-p-cresol

S/079/60/030/04/73/080
B001/B003

ketone (IV) is formed in a large yield. As expected, it has a distinct peculiar odor, but somewhat weaker than in the case of the p-tertiary-butylcyclohexanone (Ref. 1). In order to obtain new data concerning the dependence of the odor of the cyclic ketones on their structure, the authors investigated in which way the variation of the size of the ketonic ring becomes manifest. For this purpose the cyclohexanone ring of the ketone (IV) was contracted to the cyclopentanone ring and also expanded to the cycloheptanone ring (Scheme). The authors found that the contraction of the ketonic ring intensifies the odor considerably, whereas the expansion of the ring results in a weakening of the odor. There are 1 figure and 17 references, 12 of which are Soviet.

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy institut sintaticheskikh i natural'nykh dushistykh veshchestv (All-Union Scientific Research Institute of Synthetic and Naturally Occurring Aromatic Substances)

SUBMITTED: April 2, 1959

Card 2/2

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722010012-6"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722010012-6

S/079/60/030/05/66/074
B005/B126

AUTHORS: Kheyfits, L. A., Moldovanskaya, G. I., Broun, E. V., Belov, V. N.

TITLE: Analyses in the Field of Terpenophenols. III. Analyses of the Condensation Products of Camphene With Phenol

PERIODICAL: Zhurnal obshchey khimii, 1960, Vol. 30, No. 5, pp. 1716-1721

TEXT: The authors examined the composition and structure of the reaction products that are formed by the condensation of camphene with phenol in the presence of a solution of borontrifluoride in glacial acetic acid. After standing for a long time a crystalline substance separates from the fractions of the vacuum distillation of the resin that is formed by this condensation; in pure state it forms bright, colorless needles, which melt at 103°. This product was isolated for the first time by two of the authors together with E. A. Simanovskaya. It was identified as p-isobornyl phenol. The oil from which this product separates, crystallizes again gradually after the separation of the p-isobornyl phenol and after several months forms a crystalline substance with a melting point of 79°. The authors were able to show that

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APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722010012-6"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722010012-6

Analyses in the Field of Terpenophenols. III. Analyses of the Condensation Products of Camphene With Phenol

S/079/60/030/05/66/074
B005/B126

this compound is o-isobornyl phenol. Since the described separation of both isomeric isobornyl phenols is very difficult, the authors worked out a more suitable and easier method of isolating both compounds in pure state. In aqueous lyes both compounds are insoluble; but in aqueous-alcoholic lyes the para-isomers are more readily soluble than the ortho-isomers, which fact can be used for the separation. In order to prove the structure of the two compounds in detail, the authors took infrared absorption spectra of solutions of both isomeric compounds in carbon tetrachloride and in bromoform (Fig. 1). The analysis of the spectra is given in detail. Fig. 2 shows the ultraviolet absorption spectra of both isobornyl phenols. The assumed structure was also confirmed by measuring the dipole moments of the two compounds and their dibromides. It was established that 70% o-isobornyl phenol and 20% p-isobornyl phenol are formed by this condensation. The remaining 10% is probably composed partly of isobornyl acetate, which can form on the acetylation of camphene with acetic acid in the presence of BF_3. All the reactions carried out are described in detail in the experimental part. N. I. Kursanov is mentioned (Ref. 19). The authors thank A. V. Iogansen for valuable advice concerning the spectroscopic analyses, and Ye. A. Shott-L'vova for the

Card 2/3

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722010012-6"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722010012-6

Analyses in the Field of Terpenophenols.
III. Analyses of the Condensation Products of Camphene With Phenol

S/079/60/030/05/66/074
B005/B126

measurement of the dipole moments. There are 2 figures and 24 references, 9 of which are Soviet.

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy institut sinteticheskikh i natural'nykh dushistykh veshchestv (All-Union Scientific Research Institute for Synthetic and Natural Aromatic Substances)

SUBMITTED: April 16, 1959

Card 3/3

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722010012-6"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722010012-6

BELOV, V.N.; KHEYFITS, L.A.; VIREZUB, S.I.

Oxidation of carbonyl compounds with hydrogen peroxide and peracids (Baeyer-Villinger reaction). Reakts.org.soed. 10:7-208 '61. (MIRA 14:10)

(Carbonyl compounds) (Oxidation)

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"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722010012-6

KHEYFITS, L.A.; SHULOV, L.M.; BROUN, E.V.; BELOV, V.N.

Terpenophenols. Part 4: Products of the condensation of camphene with o-cresol. Zhur. ob. khim. 31 no. 2:672-677 F '61. (MIRA 14:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut sinteticheskikh i natural'nykh dushistykh veshchestv.
(Camphene) (Cresol)

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KHEYFITS, L.A.; MOLDOVANSKAYA, G.I.; POPOVA, Yu.I.

Preparation of new odorous substances from condensation products of camphene with 2,6-xylenol. Zhur.VKHO 7 no.2:234-235 '62. (MIRA 15:4)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut sinteticheskikh i natural'nykh dushistykh veshchestv.

(Odorous substances) (Camphene) (Xylenol)

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KHEYFITS, L.A.; MOLDOVANSKAYA, G.I.; MOKHMANSKIY, A.V.; BELOV, V.N.

Odorous substances from alkylphenols. Part 3: Synthesis of odorous substances from p- and o-tert.-amylphenols. Zhur. ob. khim. 32 no.5:1467-1473 My '62. (MIRA 15:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut sinteticheskikh i natural'nykh dushistykh veshchestv.
(Odorous substances) (Phenol)

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KHEYFITS, L.A.; SHULOV, L.M.; BELOV, V.N.

Terpene phenols. Part 6: Condensation of camphene with p-cresol and further transformations of the condensation product. Zhur.ob. khim. 32 no.5:1474-1476 My '62. (MIRA 15:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut sinteticheskikh i natural'nykh dushistykh veshchestv.
(Camphene) (Cresol)

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KHEYFITS, L.A.; SHULOV, L.M.; KOKHMANSKIY, A.V.; BELOV, V.N.

Terpene phenols. Part 7: Conversions of condensation products of camphene with o-cresol. Zhur.ob.khim. 32 no.8:2717-2722 Ag '62. (MIRA 15:9)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut sinteticheskikh i natural'nykh dushistykh veshchestv.
(Camphene) (Cresol)

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KHEYFITS, L. A.; MOLDOVANSKAYA, G. I.; IL'INA, G. P.

Determination of the structure of a terpene residue in a phenyl terpene ether obtained from camphene and phenol. Zhur. ob. khim. 32 no.12:4096-4097 D '62. (MIRA 16:1)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut sinteticheskikh i natural'nykh dushistykh veshchestv.

(Terpene) (Camphene) (Phenol)

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KHEYFITS, L.A.; GOL'DOVSKIY, A.Ye.

Production of new odorous substances from the condensation products of norbornene with p-tert-butylphenol. Zhur. VKHO 8 no.5:599 '63. (MIRA 17:1)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut sinteticheskikh i natural'nykh dushistykh veshchestv.

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KHEYFITS, L.A.; MOLDOVANSKAYA, G.I.; SHULOV, L.M.

Thin-layer chromatography of some alkyl phenols and alkyl cyclohexanones. Zhur. anal. khim. 18 no.2:267-274 F '63. (MIRA 17:10)

1. All-Union Scientific-Research Institute of Synthetic and Natural Perfumes, Moscow.

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KHEYFITS, L.A.; MOLDOVANSKAYA, G.I.; KOKHMANSKIY, A.V.; BELOV, V.N.

Terpenophenols. Part 6. Transformations of the products of condensation of camphene with phenol. Zhur. ob. khim. 33 no.5: 1676-1683 My '63. (MIRA 16:6)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut sinteticheskikh i natural'nykh dushistykh veshchestv.
(Camphene)
(Phenol condensation products)

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KHEYFITS, L.A.; GOL'DOVSKIY, A.Ye.

Terpene phenols. Part 9: Products of the condensation of norbornene with phenol. Zhur.ob.khim. 33 no.6:2048-2051 Je '63. (MIRA 16:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut sinteticheskikh i natural'nykh veshchestv.

(Phenol condensation products) (Norbornene)

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KHEYFITS, L.A.; SHULOV, L.M.; KOKHMANSKIY, A.V.; GAVRILOVA, T.F.; BELOV, V.N.

Terpene phenols. Part 10: Condensation of camphene with o-cresol in the presence of aluminum o-cresolate and conversions of the condensation product. Zhur.ob.khim. 33 no.6:2051-2055 Je '63. (MIRA 16:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut sinteticheskikh i natural'nykh dushistykh veshchestv.

(Camphene) (Cresol)

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KHEYFITS, L.A.; SHULOV, L.M.; BELOV, V.N. [deceased]

Terpene phenols. Part 12: Condensation of camphene and norbornene with p-cresol and transformations of condensation products. Zhur. ob. khim. 33 no.8:2748-2751 Ag '63. (MIRA 16:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut sinteticheskikh i natural'nykh dushistykh veshchestv.

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KHEYFITS, L.A.; VIREZUB, S.I.

Terpene phenols. Part 13: Condensation products of dihydrodicyclopentadiene with phenol. Zhur. ob. khim. 33 no.8:2751-2755 Ag '63. (MIRA 16:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut sinteticheskikh i natural'nykh dushistykh veshchestv.

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KOLOGRIVOVA, N.Ye.; KHEYFITS, L.A.; SHCHEDRINA, M.M.; YEPIKHINA, A.A.

Steric course of thymol hydrogenation. Zhur. prikl. khim. 36 no.12:2740-2745 D'63. (MIRA 17:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut sinteticheskikh i natural'nykh dushistykh veshchestv.

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KHEYFITS, L.A.; GOL'DOVSKIY, A.Ye.

Terpene phenols. Part 15: Transformations of products of condensation of norbornene with phenol. Zhur.ob.khim. 33 no.10: 3399-3403 O '63. (MIRA 16:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut sinteticheskikh i natural'nykh dushistykh veshchestv.

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KHEYFITS, L.A.; VIREZUB, S.I.

Terpene phenos. Part 17: Transformations of tricyclodecylphenols. Zhur. ob.khim. 34 no.1:119-122 Ja '64. (MIRA 17:3)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut sinteticheskikh i natural'nykh dushistykh veshchestv.

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GURA, Yu.; KHEYFITS, L.A.

Terpene phenols. Part 18: Condensation of norbornene with thymol and further transformations of the condensation product. Zhur. ob. khim. 34 no. 5:1655-1658 My '64. (MIRA 17:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut sinteticheskikh i natural'nykh dushistykh veshchestv.

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