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Comparison of the anabolic sctivity of testosterone propionate, 19 -nor-D-homotestosterone, and some of its derivatives. Dokl. AN SSSR 145 no.5:1163-1165 '62. (MIRA 15:8)

1. Institut khimii prirodnykh soyedineniy AN SSSR. Predstavleno akademikom M.M.Shemyakinym. (Testosterone) (Metaboliam)

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KORNILOVA, V.N., nauchnyy sotrudnik

Important task of the vineyardists of Daghestan. Zashoh.rast.ot vred.i bol. 4 no.4226-27 J1-Ag *59.

(MIRA 16:5) 1. Derbentskaya opytnaya stantsiya vinogradarstva i ovoshchevodstva Dagestanskogo nauchno-issledovatel'skogo instituta sel'skogo khozyaystva. (Daghestam-Grapes-Diseases and pests)

(Daghestan-Spraying and dusting in agriculture)

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KORNILOVA, V.N., starshiy nauchnyy sotrudnik

Additional spraying in vineyards. Zashch. rast. ot vred. i bol. (MIRA 17:5) 9 no. 4:19-21 '64.

1. Derbentskaya opytnaya stantsiya po vinogradarstvu i ovoshchevodstvu.

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KORWILOVA, V.P., kandidat biologicheskikh nauk. State of reserves and biology of the Azov anchovy before regulation of river runoff. Trudy VNIRO 31 no.2:196-203 '55. (NLRA 9:8) 1. Asovsko-Chernomorskiy mauchuo-issledovatel'skiy institut rybnogo khosyaystva i oksanografii. (Arov, Sea of--Anchovies) 1,

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KORWILOVA, V.P. Biology and fisheries of the anchovy (Engraulis encresicholus maeoticus Pas.) in the Sea of Azov. Trudy Azcherniro no.18:50-(NIRA 14:10) (Azov, Sea of — Anchovies)

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	KORNILOVA, V. S.	
	Kazakhstan - Paleobotany	
	New discovery of early Tertiary flora in Kazakhstan. Dokl. AN SSSR 86 No. 1, 1952	- -
	1952	
) .	Monthly List of Russian Accessions, Library of Congress, December /1952. Unclassified.	-

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KORNILOVA, V. S.

"Continental Tertiary "lore of Tortmole," Uch. 280. Ketakhsk. un-te, 15, No. 1, pp 80-94, 1934

The suthor presents the characteristics of the stratigraphic distribution of fossil flore in the tertiary deposits of the region of Tortmola (Kazakh SSR) and describes the plant remains observed in a cross section. The fossil flore is coordinate with the lenses of fine-grain gendstones and sitistones encountered in the layer of salted clays of lagoon origin possibly, which lie over clays of the Chegan series and are covered by sandy-clayey rocks of the continental Turgey series. The plant remains of Tortmola are connected with the deposits of the indricotherium series of the Middle Oligocene age and are represented by impressions of layers and fruits of grasses, daphnogen, laurel, etc. (R2hGeol, No 4, 1955)

Sum. No. 681, 7 Oct 55

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KORNILOVA, V.S. 15-57-2-1379 Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 2, p 29 (USSR) Kornilova, V. S. AUTHOR: The Results of a Study Dealing With the Oligocene Flora From Turgay (Itogi izucheniya oligotsenovoy TITLE: flory Turgaya) Tr. In-ta botan. AN KazSSR, 1956, Vol 3, pp 59-101 PERIODICAL: The history of the Turgay paleobotanical study is subdivided into two stages: from 1858 to 1947, and ABSTRACT: from 1947 to the present time. Altogether 32 species were established in Turgay and North Aral district toward the end of the first period. This material provided A. N. Krishtofovich with an opportunity to explain the character and genesis of the Turgay flora, relating it to the Turgay province of the Turgay botanical-geographical district. The latter period is characterized by a complex study of stratigraphy, Card 1/3

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15-57-2-1379 The Results of a Study Dealing With the Oligocene (Cont.) autochthonously in the lower and middle Oligocene from the Eccene flora through the gradual extinction of the Poltava elements and the development of the Turgay elements. The development of the Turgay flora in the middle Oligocene and its impoverishment in the upper Oligocene is related to the cooling of the climate, which led to the extinction of many wood species. Aridity occurring at the beginning of the Miocene caused further decrease in forest areas and an increase in the desert-steppe areas. The author gives a summary list of plants from the Oligocene floras of Turgay and North Aral district, including 314 titles. L. B. Card 3/3

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KORNILOVA, Valentina Stepanovna; BAZHAN(V, V.S., kand.biolog.nauk, otv. red.; SEMENOV, N.N., red.; PROKEOROV, V.P., tekhn.red. [Lower Miccene flora of Kushuk (Turgay Gates)] Mizhnemiotseno-vaia flora Kushuka (Turgaiskii progib). Alma-Ata, Isd-vo Akad. nauk Kazakhskoi SSR, 1960. 128 p. (MIRA 13:7) (Turgay Gates -- Paleobotany)

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PAVLOV, N.V., akademik; AGEYEVA, N.T.; BAYTENOV, M.B.; GOLOSKOKOV, V.P., kand.biolog.nauk, red.; KORNILOVA, V.S.; POLYAKOV, P.P., Prinimali uchastiye: VASIL'YEVA, A.N.; OFAZOVA, A.; FISYUN, V.V., BYKOV, B.A., red.; KUBANSKAYA, Z.V., hand; biolog.nauk, red.; SUVOROVA, R.I., red.; ALFEROVA, P.F., tekhn.red.

[Flora of Kazakhstan] Flora Kazakhstana. Glav.red.N.V.Pavlov. Sost.N.T.Ageeva i dr. Alma-Atu. Vol.3. 1960. 457 p. (MIRA 13:5)

1. Akademiya nauk Kasakhskoy SiSR, Alma-Ata. Institut botaniki. 2. AN KasSSR (for Pavlov). 3. Uhlen-korrespondent AN KasSSR (for Bykov).

(Kasakhstan--Dicotyledons)

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KORNILOVA, V.S.

Quarternary floras from the mountain regions of Central Asia. Mat. po ist. fauny i flory Kazakh. 4:113-151 '63. (MIRA 16:9) (Soviet Central Asia-Paleebotany, Stratigraphic)

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KORNILO	$VA, YE \cdot N$
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 19, 1956, 62608
Author:	Rozhkov, I., Kornilova, Ye.
Institution:	None
Title:	Stability of Ethylated Aviation Gasoline of Different Chemical Composition
Original Periodical:	Novosti neft. tekhniki, Neftepererahotka, 1954, No 6, 19-22
Abstract:	Investigation of the effects of the hydrocarbon composition of ethylated aviation gasolines on their stability in storage. Sta- bility was evaluated by the method of GOST-6667-53 and the time of appearance of a precipitate of decomposition products of tetraethyl lead (TEL) on storage. The investigation showed that in extensively branched paraffin hydrocarbons TEL is more stable than in alkylated arcmatic hydrocarbons. Accordingly B-100/130 gasoline obtained by
Card 1/2	

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KORNTLOVA	Ye.	, N.
Subject	:	USSR/Chemistry AID P - 342
Card	:	1/1
Authors	:	Rozhkov, I. V., Shimonayev, G. S. and Kornilova, Ye. N.
Title	:	The effect of tetraethyl lead on the oxidation of hydrocarbons
Periodical	:	Neft. Khoz., v. 32, #5, 70-73, My 1954
Abstr a ct	:	The result of study of oxidation of hydrocarbons of the kerosene types in liquid phase and at the presence of 0.01% of tetraethyl lead (TEL) are reported by the au- thors. The specimens of liquid hydrocarbons with and without TEL were placed in glass ampoules filled with air and tested at 100°C. The results indicate that TEL is a catalyst for low temperature oxidation of liquid hydrocarbons. The TEL also accelerates the decomposition of organic peroxides, which in turn accelerate decomposi- tion of TEL and formation of deposits. 2 tables and 5 Russian references (1939-51).
Institution	:	None
Submitted	:	No date
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KORNILOVA, E.N.

•		· · · · · · · · · · · · · · · · · · ·
AUTHOR:	Rozhkov, I.V. and Kornilova, E.N.	65-4-8/12
TITLE :	On the mechanism of the action of anti process of liquid phase oxidation of e petrols (O mekhanisme deystviya anioki zhidkofaznogo okisleniya bensinov.)	thylated aviation
PERIODI	CAL: " <u>Khimiya i Tekhnologiya Topliva i</u> Technology of Fuels and Lubricants)195	Masel"(Chemistry and 7, No.4, pp.47-53(USSR)
e a d a p r t c i c c a c a d 1/2 c i	T: The above problem was studied using extent oxidised samples of petrol and the ints: paraoxydiphenylamine, 4,4'-diamin liethyl-p-phenylenediamine, 2,6-ditertia and 2,4-diaminodiphenylamine. Changes is properties of ethylated aviation benzene come temperature are shown in Table 1; sures on the oxidation process is shown hanges in properties of "corrected" pet in Table 2. It was found that under come xidation, lead tetraethyl decomposes wi out of the tetraethyl decomposes will ctive products considerably easier than omposition products initiate the decomp des. Therefore the additives capable of osition of lead tetraethyl also inhibit	he following anti-oxid- hodiphenyldisulphide, ary butyl-4-methylphenol in the physico-chemical exposed to light at the influence of admix- in Figs. 1-6, and crol on storage is shown ditions of liquid phase th the formation of a peroxides. These de- position of hydroperox- of inhibiting the decom-

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On the mechanism of the action of anti-oxidants on the process of liquid phase oxidation of ethylated aviation petrols (Cont.) hydroperoxides. Anti-oxidants inhibiting oxidation of ethylated benzene when added before the oxidation process is started, are capable of inhibiting the already started decomposition of lead tetraethyl in gasoline. The possibility of increasing the stab-ility of ethylated gasoline in which the decomposition process of lead tetraethyl has already started by an addition of para-

oxydiphenylamine was demonstrated. There are 2 tables, 6 figures and 7 Slavic references.

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Card 2/2

Sabli Por The ASP boy 14/2000 G' un to BOP 56 00 5138000824720014 65-6-10/13

- TITLE: Phenols from processing Cherenkhovsk coals as antioxidants for fuels. (Fenoly pererabotki cherenkhovskikh ugley kak antiokisliteli dlya topliv).
- PERIODICAL: "Khimiya i Tekhnologiya Topliva i Masel" (Chemistry and Technology of Fuels and Lubricants) 1957, No.6, pp.58-62 (USSR).
- ABSTRACT: Oxidation inhibiting properties of phenols obtained during semicoking of the Cheremkhovsk coals were investigated. Numerous samples of phenols were tested, but the results for three most effective samples are given: 1) phenols separated from spent ammonia liquor, by solvent extraction (the method is not given) and distilled in vacuo; 2) individual fractions of these phenols (the composition - table 1), and 3) some phenolic fractions separated from tar (e.g., fraction boiling 240-330 C). Oxidation inhibiting properties of phenols were tested by rapid oxidation of samples of various fuels (containing components obtained by thermal cracking) inhibited with the antioxidants investigated in comparison Card 1/2 with the same fuels containing already known inhibitors.



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11.1210	S/065/60/000/011/006/009 E194/E484	
AUTHORS :	Rozhskov, I.V., Klimov, K.I., Kornilova, Ye.N. and Vilenkiy, A.V.	
TITLE :	The Service Performance of Fuel Type T Stabilized With Anti-Oxidant 24-16 (FCh-16)	
TEXT: Sov TC-1 (TS-1 cut and fue distillation	Khimiya i tekhnologiya topliv i masel, 1960, No.ll, pp.49-53 iet jet fuels for civil aviation are grades T-1,) and T-2. Fuel T-2 is a wide gasoline-kerosene 1s T-1 and TS-1 are kerosene cuts produced by straight . Fuel type T is a jet fuel	
thermally c position and except that the fuel is distillate particular	racked components, The use of racked components considerably improves the supply d the properties of the fuel are generally satisfactory, because of the presence of unsaturated hydrocarbons much more subject to auto-oxidation than straight fuels. Accordingly, the present work considers in	ť
The wide-cut	Facked components stabilized with anti-oxidant FCh-16. If fuels are not such good lubricants as kerozene and to increased wear in fuel pumps. Accordingly,	

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The Service Performance of Fuel Type T Stabilized With Anti-Oxidant FCh-16

this property was also studied. oxidation test results on fuels produced by different refineries. The oxidation tests were made at a temperature of 110°C for eight hours, oxidation being assessed by the actual resin content at a temperature of 185°C. The fuels were stabilized with 0.05% weight anti-oxidant FCh-16 which consists of phenols that are by-products of semi-coking of Cheremkhovsk coal. anti-oxidant FCh-16 is a more effective anti-oxidant for thermally Previous work has shown that cracked fuels than wood-rosin anti-oxidant, ionol and paraoxydiphenylamine. Storage tests were made for 2,5 years under severe conditions with mean summer temperatures up, to 30 to 35°C. In the fuel stabilized with anti-oxidant FCh-16 there was no increase in actual resins or in neutralization value, given in Table 2 show that the remaining physical-chemical properties of the fuel containing cracked component and stabilized The data with FCh-16 did not change during 2.5 years storage and remained within the standard limits. The anti-wear properties of fuels were investigated on a rig KB-1 (KV-1) illustrated schematically

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S/065/60/000/011/006/009 E194/E484

The Service Performance of Fuel Type T Stabilized With Anti-Oxidant FCh-16

in Fig.2 in which a steel cylindrical roller 5 mm diameter rubs against a spiral of wire 2 mm diameter, wound on the cylindrical surface of a disc. The speed of loading and other conditions are given and the loads to cause scoring with various commercial fuels are plotted in Fig.3. It is shown that the fuels differ considerably in their anti-wear properties, of the straight distillate fuels grade T-1 is the best, T-2 is the worst and TS-1 is intermediate. Samples of fuel containing thermally cracked components and additive FCh-16 are better in anti-wear properties than fuel grade T-2 of the same viscosity and are not worse than fuel TS-1 although of somewhat lower viscosity. order to explain the reason for this wear, tests were made with the components of the fuel to investigate the influence of adding FCh-16 and the results are plotted in Fig. 4. It will be seen that product FCh-16 is able to improve the anti-wear properties of It is concluded that a fuel containing 30% of cracking component and 0.05% anti-oxidant FCh-16 is of good oxidation stability and can be stored in the southern regions for not less

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36931 s/081/62/000/007/021/033 B168/B101 11:0172 AUTHORS: Rozhkov, I. V., Sablina, Z. A., Gureyev, A. A., Kornilova, Ye. N. TITLE: Anti-oxidants for fuels Referativnyy zhurnal. Khimiya, no. 7, 1962, 546-547, PERIODICAL: abstract 7M172 (Sb. "Prisadki k maslam i toplivem". N., Gostoptekhizdat, 1961, 388-392) TEXT: The effectiveness and the mechanism of the action of anti-oxidants intended for automobile gasolines containing components from thermal and catalytic cracking, ethylated aviation gasolines produced by straight distillation, turbojet fuels, tractor kerosenes and diesel fuels were investigated. It was established that the parameters referred to are not determined solely by the structure of the actual inhibitor but depend on the type of the oxidizing hydrocarbons and on the presence in the fuel of non-hydrocarbon additives (e.g. T.E.L.). The most effective anti-oxidant for ethylated aviation gasolines is 0.004-C.005% by weight p-hydroxydiphenylamine, which ensures that the gasolines will keep without loss of Card 1/2

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Anti-oxidants for fuels

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conditions for 3-4 years. The most efficient anti-oxidant for stabilizing automobile gasoline A -72 (A-72), which contains $\pm70\%$ components from single-stage catalytic cracking, was found to be \overline{th} 4-16 (FCh-16) (0.03% by weight); this anti-oxidant consists of phenols extracted from the aqueous fraction of low-temperature carbonization of Cheremkhovo coals and is more effective than wood-tar anti-oxidant, Ionol, or p-hydroxydiphenylamine. Being a surface-active substance, FCh-16 improves the anti-wear properties of fuels. An addition of 0.05% by weight FCh-16 stabilizes for 8 1/2 years those fuels which contain unsaturated hydrocarbons. The addition of antioxidants to fuels ensures the retention of their thermal stability at its initial level during storage. 11 references. [Abstracter's note: Complete translation.]

Card 2/2.

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EWP(j)/EPF(c)/EWT(m)/BDS L 12399-63 AFFTC/APGC Pc-4/Pr-4 EH/PM/HM ACCESSION NR: AP3001670 \$/0065/63/000/006/0060/0065 AUTHOR: Kichkin, G. I.; Rozhkov, I. V.; Vilenkin, A. V.; Kornilova, Ye. N. TITLE: Effect of additives on anti-wear properties of fuels SOURCE: Khimiya i tekhnologiya topliv i masel, no. 6, 1963, 60-65 TOPIC TAGS: additives, anti-wear, fuels; anti-oxidants, dispersant stabilizers, metal deactivator, surface-active additives ABSTRACT: The anti-wear properties of fuels T-1 and TC-1 (naphtha-kerosene fraction) and T-2 (naphtha-kerosene-benzene fraction) were investigated. T-1 showed best and T-2 the worst anti-wear properties; increasing temperature from 20 to 150 degrees noticeably reduced the anti-wear properties. Addition of small amount (0.01% by weight) of antiwear additives (s-organic compounds, or thiophosphoric acid esters) developed for oils, increased anti-wear properties of the fuels to the same extent as the addition of anti-oxidants and dispersant stabilizers. A metal deactivator showed very little surface-active effect, but surface active phenols or phenylenediamine improved fuel stability Card 1/2

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and increased anti-wear property. "K. I. Klimov was one of the supervisors at the start of the work." Orig. art. has: 3 ligures and 3 tables. ASSOCIATION: none					
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SUB CODE: none	NO REF SOV: 007	OTHER: 003			
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KORNILOVA, YU. I. and DOBRYANSKIY, A. F.

Catalytic Cleavage of Symmetrical Diphenylethane by the Action of Aluminum Chloride, Page 311, Sbornik statey po obshchey khimii (Collection of Papers on General Chemistry), Vol I, Moscow-Leningrad, 1953, pages 762-766

Chair of Pyrogenic Processes, Leningrad Technological Inst imeni Lensovet

Heating $(CH_2Fh)_2$ (I), with AlCl₃ to 230-50° or 330-50° results in 2 simultaneous processes: cleavage and condensation. I undergoes solely the unsym. cleavage, regardless of conditions, ymbelding C6H6 and condensation products of linear structure. The yields depend on conditions. If the low boiling material is not removed continuously, the yield of distillable material (mostly C6H6) declines. The yield of distillable material rises with the increase of catalyst concn. from 1% to 10%. Oxidation of the condensation products gave BzOH and $p-C6H4(CO_2H)_2$.

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HURTLOVA, ILA IA AND DUDALANDALL, A. F.

"Condensation of Ethylene Chloride with Aromatic Hydrocarbons in the Presence of Aluminum Chloride," Page 315. Sbornik statey po obshchey khimii (Collection of Papers on General Chemistry), Vol I, Moscow-Leningrad 1953, pages 762-766.

Chair of Pyrogenic Processes, Leningrad Technological Inst imeni Lensovet

The reaction of (CH₂Cl)₂ with C6H6 in the presence of AlCl₃ yields (PhCH₂),

and resins, or condensation products. $(CH_2Cl)_2$ (99 g.) and 234 g. C_2H_2 with 10 g. AlCl₃ gave, after the usual aq. treatment, 55% (PhCH₂)₂, b_{15} 152-5°, and 40 g. product, b16 155-300°. Some higher boiling residue was left. Repeated distn. gave p-C6H₄(CH₂CH₂Ph)2m b₃ 212°, m. 47-8.5°, and (p-PhCH₂CH₂C6H₄CH₂)₂, b_3 270-8°, m. 76-85°, (possibly a mixt. of isomers). Oxidation gave terephthalic acid and BzOH. The same oxidation products were obtained from the tarry distn. residue. Similarly MePh gave up to 65% ditolylethane, b_3 142°, d_{20} 0.9681, which oxidized with KMnO₄ to terephthalic and isophthalic acids, with traces of toluic acids, thus indicating the formation of m- and p-isomers in the condensation. The higher boiling products yielded 1,3-bis(2-(p-methylphenyl)ethyl)-5-methylbenzene, b₃, 226-8°, in. 62-9°.

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KORNILOVA, Yu. I. and A. F. Dobryanskiy

Catalytic Decomposition of Symmetrical Ditelylethane by the Action of Aluminum Chloride, Page 325 Sbornik statey po obshchey khimii (Collection of Papers on General Chemistry), Vol I, Moscow-Leningrad 1953, pages 762-766

Laboratory of Pyrogenic Processes, Leningrad Technological Inst imeni Lensovet

Heating mixed 1,2-di(m-tolyl) ethane and 1,2-di(p-tolyl) ethane with AlCl₃ to 230-50° led to cleavage of the former in 2 directions, predominant reaction was cleavage of MeFh, a lesser reaction was the cleavage of xylene (m- and p-isomers as identified after oxidation to the acids). The extent of the reaction rises with temp. and with duration as well as with increase of the proportion of AlCl₃ used. Attempts to oxidize the high boiling products failed to yield any conclusive results.

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Culdulus by mangeness triastate. II. Outdown of c-gradient and c-bate districts. S. A. Zonis and Yu. I. Kornikova (Leasavet Tech. Inst., Leningrad). Zher-Okiekeir Tkhov. (J. Gen. Chem.) 20, 1202-61(1950); cf. C.A. 45, 1553/...-The ortication mechanism by which Pb-(OAc), operates is impolicable to the Mn acctate reaction. The proposed scheme is as follows: $R_{c}C(OH)C(OH)R_{s} +$ Mn(OAc), $\rightarrow R_{c}C(OMn(OAc)_{s}|C(OH)R_{s} + Ma(OAc)_{s} \rightarrow R_{c}C(OMn(OAc)_{s}|C(OMn(OAc)_{s}|R_{s} \rightarrow (R_{c}CO + -2R_{c}CO.$ The temp., solvest, and substrate structure affect the reaction rate. Polar solvents (AcOII 100% or 80%) give the following accessing scale of reactivities: [PbaC(OH)], [MePtaC(OH)], PbMeC(OH)C(OH)Mey. [MeC(OH)], Ibervelopentyll-2,2'-diol, and 2-bydorsycycloberanemethanol. The reaction is slower in 80% than in 100% AcOII, and tertiary oskidze more rapkily than secondary glycols. The glycols are oxidized considerably slower in tetrachloroentiase or trichloroothane than in AcOII, probably as a resuit of H bond ascor. in the incert solvents. The results obtained with 0.0005-0.00025 mole substrate and 0.001-0.0005 mole Mn(OAc), at 30, 50, 80, and 100°, are prejavated in tabular ased graphic forms. IV. Action of

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Contex, abid. 1202-72.—Secondary -pacetylenic gipsals. S. A. Earlis, abid. 1202-72.—Secondary -pacetylenic pyrois, such as [PhCH(OH)CI]s (I), are calciled by Mac(Ack to -pdiluctonce of the accetylene series; only tertiary gipcols pield acetylation products at the triple bond maker the action of Min(OAch, when the gipcol is of aromatic type; aliphatic analogs are ruptured. The stereoisomerism of the gipcol is of importance; this is explained by possible extensive polarization of the unstid. link, which is different in trans and cis isomers; the polarization leads to codedination of the OH bydrogen with the neg. C, thus altering the exidisability. Reactions of 0.24 g. I, m. 137-8^o, with 0.7 g. Mac(Calc) is 100 ml. AcOH, as well as with a doubled ant. of oxidate, were run at 50, 80, and 110^o, with final degrees of oxidation of 25, 83, and 98^o, reep.; the final products was at 100^o I gave only 50-7% final products: PhCO, 2.5.6, istraphanyle, 6, 6, 6, 6, 6, 6, 6, 7.0, 7.5, 6, and

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SEMENOV,S.S.; KORNILOVA,T.1.; GUREVICH,B.Ye.; ORLOVA,N.S.
Detection and analysis of functional groups in organic matter of
Baltic shales. Trudy VNIIPS no.3:11-15 '55. (MLRA 8:12)
(Baltic Sea region--011 shales) (Hydrocarbons)

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HULLULI ROTTIANN 7 TA PLATE	SOURCE CODE: UR/0000/65/000/000/0143/0147
AUTHORS: Kornflova, Z. I.; Ignatov, I	<u>. v.</u> 32
DRG: none	· · · · · · · · · · · · · · · · · · ·
가지, 사람이는 것이 같은 것이 있는 것이 같이 많은 것을 가지? 이 것이 같은 것이 같은 것이 같이 가지 않는 것이 같은 것이 같은 것이 같이 않는 것이 같이 같이 같이 같이 같이 많이 많이 많이 많이 많이 많이 같이 같이 많이 많이 많이 많이 많이 많이 많이 같이	B+1
ITLE: A structural-kinetic study of	the oxidizability of titenium allows
OURCE: Soveshohantwo	1, metallovedeniyu i primeneniyu titens i
OPIC TAGS: titanium alloy, metal oxi composition, temperature, phase transi-	
balance with a sensitivity of 2.10-5 afers were cut from forged and anneale	study of the kinetics of ordation of titanium composition of the scale formed on them. The hed by the method of intermittent weighing on g. Specimens in the form of 10 x 10 x 4-mm ad (at 950C) rectangular rods. With prolonged alloys are functions of temperature and time 000-1000C, rutile and χ -Al ₂ O ₃ were detected.
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Kor	2 N	ILOVICH, A.	
Subject	:	USSR/Aeronautics AID P - 2448	
Card 1/1	Pu	ub. 135 - 14/19	
Author	:	contraction, A., Do. Cor. Eng.	
Title	:	Astashenkov, P. T., <u>Elektrichestvo na samolete</u> (Elec- tricity in aircraft), 1955. (Book review)	
Periodical	:	Vest. vozd. flota, 8; 82-83, Ag 1955	
Abstract	:	This book is about the electric equipment of the modern aircraft. It belongs to the popular science library series for soldiers and sailors.	
Institution	:	None	
Submitted	:	No date	

APPROVED FOR RELEASE: 06/14/2000

CIA-RD886-00513800824720014

AUTHOR: Kornilovich, A.A., Engr Lt Col

TITLE: High-altitude Equipment of Aircraft (Vysotnoye oboruddvaniye samoletov)

PERIODICAL: Vestnik vozdushnogo flota, 1959, Nr 1, pp 88-89 (USSR)

ABSTRACT: Thus article is a critical review of the book Vysotnoye oborudovaniye samoletov, High-altitude Aircraft Equipment, by L.T. Bykov, M.S. Yegorov, and P.V. Tarasov, published by the oborongiz (State Publishing House of the Defense Industry) Moscow, 1958, 392 pages.

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CIA-RDP86-00513R000824720014-3

KRAVGHENKO, A.P.; KOENILOVICH, A.A.; SIKG, L.A.; SIRUTKINA, V.P. Electric properties of silicon with phosphorus admixture. Izv. SO AN SSSR no. 10. Ser. tekh. nauk no. 3r70-85 '65 (NIRA 19:1) 1. Institut fiziki poluprovodnikov Sibirskogo otdeleniya AN SSSR, Novoaibirsk. Sutmitted August 27, 1964.

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L 2551-66 = EWT(m)/EWP(w)/EPF(c)/EWP(j)/T/EWP(t)/EWP(b) = IJP(c) = JD/RMACCESSION NR: AP5021083 UR/0288/65/000/002/0153/0154 537.311.33 AUTHOR: Kornilovich, A. A.; Kravchenko, A. F. TITLE: Effect of heat treatment on the electrical properties of silicon containing phosphorus as an impurity 27 SOURCE: AN SSSR. Sibirskoye otdeleniye. Izvestiya. Seriya tekhnicheskikh nauk, no. 2, 1965, 153-154 TOPIC TAGS: high temperature annealing, low temperature annealing, Hall effect, silicon, phosphorus impurity, free electron mobility, donor concentration, electrical resistance, electroneutral silicon dioxide ABSTRACT: Heating of Si to temperatures above 350C markedly changes its electrical properties; the reason for this is not conclusively known, although certain theo-ries on the interaction of oxygen with atoms of silicon and atoms of impurities have been advanced. In this connection, the authors present the results of an experimental investigation of electrical resistance, concentration, and free electron mo-bility as a function of the time and temperature of the heat treatment (annealing) of three groups of n-Si containing different amounts of P impurity. The annealing was performed in a vacuum (10^{-3} mm Hg) at from 400 to 11000 for 30 min to 40 hr, and the cooling, for 10 hr, inside the furnace. The effect of annealing differed Card 1/3

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ACCESSION NR: AP5021083			2	
donor concentration decrease silica glasses, the oxides of liberated oxygen diffuses the the crystal, is distributed treatment leads to the forms groups. These complexes may crease in free-electron cond attributable to the decrease longed annealing. Orig. art	of the impurity, and the si- urough the interstices and, in the form of Si ₂ O groups tion of electrically active be singly or multiply ion centration. The increase is in the number of thermal	licon dioxides deca following rapid co be by contrast, low re SiO, complexes/fr dized, thus leading to n electron mobility	y, and the oling of -temperature om Si ₂ O to an in- is clearly	
ASSOCIATION: Institut fizik sibirsk (Institute of Semico	i poluprovodnikov Sibirsko	go otdeleniya AN SS Department, AN SSSR)	BR, Novo-	
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L 14562-66 ENT(m)/ENP(w)/T/ENP(t)/ENP(b) IJP(c) JD	
ACC NRI AP6002015 (A) SOURCE CODE: UR/0288/65/000/003/0079/0085	
AUTHOR: Kravchenko, A.F.; Kornilovich, A.A.; Saks, L.A.; Sirotkina, V.P.	
ORG: Institute of Semiconductor Physics, Siberian Branch, AN SSSR, Novosibirsk (Institut fiziki poluprovodnikov Sibirskogo otdeleniya AN SSSR)	
TITLE: Electrical properties of silicon with phosphorus admixtures	
SOURCE: AN SSSR. Sibirskoye otdeleniye. Izvestiya. Seriya tekhnicheskikh nauk, nc. 3, 1965, 79-85	-
TOPIC TAGS: silicon semiconductor, specific resistance, Hall effect, thermoelectromotive force, phonon scattering	• • •
ABSTRACT: The majority of garlier works concerning the influence of phosphorus on the physical properties of silicon were carried out on polycrystalline materials in which the intercrystalline potential barriers made the interpretation of kinetic effects extremely com- plicated. In view of the present-day uses of n-type silicons with low P content, the authors investigated effects in three types of Si samples (Si-1, Si-2, Si-3) with differing P concentra- tion having at room temperature specific resistivities of 18, 9, and 6 ohm cm. Experimental results are summarized in Figures 1 through 4. A detailed theoretical interpretation of the experimental results is also given. The theoretical dashed curves in Fig. 4 are in good agreement with experimental data except in the low temperature region, where the deviation may be due to admixture scattering which was neglected during the theoretical derivation. UDC: 1339.293: 538.632	
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DUBININA, V.N.; KORNILOVICH, I.A.

Plumboharosite in the oxidation zone of lead-zinc deposits of eastern Transbaikalia. Zap.Vses.min.ob-va 88 no.3:323-328 '59. (MIRA 12:11) 1. Vsesoyuznyy nauchno-iseledovatel'skiy geologicheskiy institut, Leningrad. 2. Deystwitel'nyy chlen Vsesoyuznogo mineralogicheskogo obshchestva (for Dubinina). (Transbaikalia--Jarosite)

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CIA-RDP86-00513R000824720014-3

• 3(8) SOV/20-128-1-42/58 AUTHORS : Dubinina, V. N., Kornilovich, I. A. TITLE: On Mutual Substitutions Between Mimetesite and Bindheimite PERIODICAL: Doklady Akademii nauk SSSR, 1959, Vol 128, Nr 1. pp 156 - 159 (USSR) Bindheimite which is formed in consequence of the oxidation ABSTRACT: of boulangerite was found in the oxidation zone of quite a series of polymetallic deposits of the eastern Baykal region. Furthermore a considerable distribution of mimetesite was observed which substitutes metasomatically cerussite in the presence of scorodite. In the present paper on the one hand the gradual transitions from cerussite over mimetesite to bindheimite other were observed which were confirmed by radiometric investigations and a spectrum analysis. On the other hand the change of pseudomorphoses of the bindheimite substituted by a mixture of cerussite and beudantite towards boulangerite or the development of mimotesite along the flaws in and on the "crystals" composed of bindheimite (Fig 1), The radiogram recorded by the honey-colored mimetesite shows a Cara 1/3 distinctly marked diffraction picture and the line pattern

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On Matual Substitutions Between Mimetesite and Bindhemaite

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corresponds to the standard (Table 1). The radiograms calculated for other are given in table 2. It was found that the penetration of antimony into the crystal lattice of mimetesite proceeds by a gradual displacement of arsenic and by the disturbance of the mimetesite structure. An almost perfect removal of arsenic causes a rearrangement of the structure into a bindheimite structure. The transition from minipality to bindheimite was in numerous cases observed in the Tekaterininskoye deposit. The transformation of bindheimite into cerussite-beudantite mixture or into mimetesite was observed in parallelly carried out microchemical, chemical, and immersion determinations of minerals of sections from the deposit in the middle section of the Spasskaya mountair. Bird. heimite forms most frequently pseudomorphoses on houlangerite The chemical analysis of bindheimite is given in table 3. It often occurs that the bindheimite pseudomorphoses are crossed by minetesite small veins towards boulangerite, a some places entire surfaces are filled by granular mimoreaits (Fig 2). These facts speak in favor of the fact that the affinity of lead to arsenic and antimony in the oxidation

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	zone is approximately equal. The development of arsenic- or antimony minerals depends obviously concentration of the one or other anions. The re- taken in the X-ray Laboratory VSEGET and calcula Sokolova. The spectrum analyses were carried out Ye. Ya. Smirnova in the Spectral Laboratory VSEC 2 figures, 3 tables and 1 reference.	y on the higher adiograms were ated by Ye. P. t in 1954-55 by
ASSUCIATION:	Vsesoyuznyy nauchno-issledovatel'skiy geologich (All- Union Scientific Research Institute of Geo	
PRESENTED:	April 8, 1959, by A. G. Betekhtin, Academician	
SUBMITTED:	March 19, 1959	
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APPROVED FOR RELEASE: 06/14/2000

"APPROVED FOR RELEASE: 06/14/200 CIA-RDP86-00513R000824720014-3 NIEGIUNSKI, Witold, mgr; KORNILOWICZ, Jan, mgr; DOMINIAK, Wladyslaw, mgr Housing problems in new centers of developing industry. Inst bud miesz prace 15 no.47:1-122 '64.

APPROVED FOR RELEASE: 06/14/2000

137-58-4-6540 Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 4, p 31 (USSR) AUTHORS: Lerner, V.S., Kornil'tsev, Yu.A. Automatic Measurement of the Level of the Fused Mass in TITLE: Electrical Lead-smelting Furnaces (Avtomaticheskoye izmereniye urovnya rasplavlennoy massy v elektricheskikh pechakh svintsovoy plavki) PERIODICAL: Byul. tsvetn. metallurgii, 1957, Nr 14, pp 24-25 ABSTRACT: A description is offered of a periodically-functioning instrument consisting of a bar and a cable let down by a driving mechanism (DM) every 20 or 30 min, or at some other time interval actuated by a time relay (TR) and an electronicallyrecording automatic balanced bridge (BB) with a disk record and an electric circuit. When the bar touches the melt as it is lowered, a voltage relay is turned on, the DM stops, the BB is switched on, and this measures the resistance of the feedback resistor of the DM and records the distance the bar has been lowered, or in other words the level of the heat. Then the TR switches off the BB circuit, raises the bar, and actuates a disconnect switch when the bar is in its raised position. The Card 1/2

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• TITLE:	Measuring Alternating Currents and Voltages by the Compen- sation Method (Izmereniye peremennykh tokov i napryazheniy kompensatsionnym metodom)
PERIODICAL:	Izmeritel'naya tekhnika, 1958, Nr 1, p 56 (USSR)
ABSTRACT :	The automatic control and adjustment of many processes requires precise measuring, recording and adjusting of alternating currents and voltages. But the control instru-
Card 1/2	alternating currents and voltagest ment industry are not ments produced by the Soviet instrument industry are not adapted for this purpose. The automation laboratory of VNIITsvetmet has solved the problem by using a revised version of a common automatic potentiometer, EPD-17. The
Card 1/2	adapted for this purpose. The automation labolately de
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