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TO AN A STATEMENT OF A STATEMENT OF

FLALKOV, D. N.

(Cand. Tech. Sci., Chief Geological Research Expedition of Omsk)

"The Qualitative Characteristic of Vertical Motions of the Earth's Crust in the Steppe Region on the River Irtysh".

report presented at the Scientific and Technical Conference, Novosibirsk Inst. of Engineers of Geodesy, Aerial Photography, and Cartography, 15-22 Feb. 58. (Geodeziya i Kartografiye, '58, 4, 79-80)

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Fialkov, D.N. and Platonenko, M.A. SOV-132-58-8-6/16 **AUTHORS:** Photogrammetric Method of Detailed Geological Mapping TITLE: (Fotogrammetricheskiy spozob detal'nogo geologicheskogo kartirovaniya) Razvedka i okhrana nedr, 1958, Nr 8, pp 21 - 25 (USSR) FERIODICAL: **ABSTRACT:** As aerial photography is now widely used for prospecting for mineral deposits, the authors propose the photogrammetric method of detailed geological mapping to replace the antiquated method of geological surveying. As a rule, the topographic map is established with the help of aerial photography and the necessary connection of the identification mark of the aerial photography with the reference of the map. Observing definite conditions, all elements discovered by the photograph can be fixed on the map with great precision. There is 1 map and 2 diagrams and 1 graph. ASSOCIATION: Omskaya kompleksnaya ekspeditsiya (The Omsk Joint Expedition) 1. Minerals--USSR 2. Minerals--Sources 3. Mapping--Applications 4. Aerial photography--Applications Card 1/1

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Selecting the scale of topographic maps for use in mineral prospecting. Razved. i okh. nedr 26 no.10:15-17 0 '60. (KIRA 13:11)

> 1. Omskaya geoligicheskaya ekspeditsiya. (Prospecting---Maps, topographic)

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S/270/63/000/001/020/024 A001/A101

AUTHOR: Fialkov, D. N.

TITLE: The effect of relief and peculiarities in the Earth's crust structure on deflection of plumb line in the southern part of the Siberian plain

PERIODICAL: Referativnyy zhurnal, Geodeziya, no. 1, 1963, 39, abstract 1.52.258 ("Tr. Omskogo s.-kh. in-ta", 1962, v. 47, no. 2, 59 - 64)

TEXT: The effect of local forms of the relief of the southern part of the Siberian plain, dischargeless troughs, causes a difference of plumb line deflections at points located at opposite slopes, amounting to ~ 0 ".2. The effect of the visible topographic masses of the Altay and Urals is larger than the observed plumb line deflections, i.e., these masses are isostatically compensated. The lower part of the region is built up of crystalline rocks of ~ 50 km thickness. The upper part is represented by sedimentary rocks of 2.45 density and enormous thickness. Near Omsk a reference bore-hole detected a Paleozoic foundation of 2.75 density at a depth of 2.938 m. If Omsk rested upon a crystalline founda-

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The effect of relief and ...

S/270/63/000/001/020/024 A001/A101

tion, it would be possible to observe 3-km high mountains toward Kazakhstan, and sloping 900-m mountains were located toward Novosibirsk. To determine the effect on plumb line deflections in the meridian plane of the visible relief in the 300-km radius and of the crystalline foundation relief, the author used the "Scheme of isolines for the bottom of platform Meso-Cenozoic sediments in the Western-Siberian plain", composed in 1958 by the Siberian Scientific-Research Institute of Geology, Geophysics and Mineralized Raw Materials". The observations were conducted at 39 astronomical points of triangulation, located in the region of the triangle Omsk-Pavlodar-Novosibirsk. The correlation coefficient k = 41% between the calculated and astronomo-geodetic deflections indicates, in the author's opinion, an almost complete absence of relationship between them. The k-value is equal to 78% only for the points gravitating towards the Altay spurs. For the points on the plain k = 6%. The author holds that the main effect on plumb line deflections in the region investigated is exerted by the abyssal structure of the Earth's crust. The layout of the astronomical points is shown in a schematic diagram.

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[Abstracter's note: Complete translation] Card 2/2

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en acchant arneite di M	BOURCE CODE: UR/3197765/00	0/002/0309/0314
AUTHOR: Finlkov, D. A		35 B+1
ORG: Omak Geological	Expedition (Omskayn geologichesk	
TITLE: Authenticity o	of the vertical movements of the	
wastern Siberia		ly
avizneniya zemnoy kory	<u>Institut fiziki 1 astronomii</u> . Sov y. Recent crustal movements, no.	2. 1965. 309-314
TOPIC TAGS: geodetic	Survey	peirogeny
Kurgan-Irgiz (1941-19 used to study the vert Siberian lowland. The	repeated leveling carried out on 1944, 1945), Novosibirsk-Semipalat 953), and Omsk-Pavlodar (1921-19 tical movements of the carth's cru e differences in relative elevation	tinsk (1932-1955), 941) lines were 1st in the west
Chelyabingk-Achingk li different directions) of the order of 20 mm/	and directions, determined while in line (intervals up to 8 yr between were also used as basic dat θ . A /yr was detected; the largest upli of the lowland. It was noted the	leveling the leveling in the relative uplift
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FIALKOV, L.B.

Method for X-ray diagnosis of spondylolysis and spondylolisthesis. Ortop., travm.i protez. 23 no.5:78-79 My '62. (MIRA 15:11)

 Iz kafedry rentgenologii (zav. - prof. A.Ye. Rubasheva) Kiyevskogo instituta usovershenstvovaniya vrachey i sanatoriya im.
 Maya Vsesoyuznogo tsentral'nogo Soveta professional'nykh soyuzov.

(SPINE-DISEASES) (SPINE-RADIOGRAPHY)

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> ALIPOV, V.N.; SADIKOV, I.N.; FIALKOV, M.A.; ISHKOVA, A.K., red.; BABICHEVA, V.V., tekhn.red.

> > [Transportation and the delivery of goods; collection of regulations] Transport i perevozki v torgovle; sbornik normativnykh materialov. Moskva, Gos.izd-vo torg.lit-ry, 1959. (MIRA 12:12) 621 p.

(Delivery of goods (Law))

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FIALKOV, Yu.; OSTROMOUKHOV, M.
Method of calculating technically based standards for unit-operation processes. Sots. trud 5 no.6:74-78 Je '60. (MIRA 13:11) (Dyes and dyeing--Production standards)

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	USSR/Organic	Chemistry - Synthetic Organic Chemistry, E-2
	Abst Journal:	Referat Zhur Ahimiya, No 19, 1956, 61493
	Author:	Khaskin, I. G., Yagupol'skiy, L. M., Fialkov, Yu. A., Yakovleva, V. Ya., Vishnevskaya, G. I.
	Institution:	
	Title:	On Preparation of 2-amino-1-p-nitro-phenylethanol
	Original	The first of the second of the
	Periodial:	Med. prom-st' BSSR, 1955, No 2, 30-32
Ce	Abstract:	2-amino-1-p-fitrophenylethanol (I) is obtained by simultaneous saponification and amination of the acetate of p-nitrophenyl- chloromethylcarbinol (II) with aqueous-nethanol NH ₃ . 0.3 mol I 520 ml 26% NH ₃ and 500 ml CH ₃ OH are heated in an autoclave (55°, 1.5 od m, 1.5 hours with stirring), boiled down in a flask to 1/3 of initial volume, cooled (40-50°) acidified with 27 g 80% CH ₃ COOH + 15 ml water. To the solution are added (after removal of tarry material) 45 ml 40% NaOH (15-18°) to an alkaline reac- 82.5% (on the basis of II), MP 133-134° (from alcohol).
		V. Tomonosov, Chem Pharme Plant, Kiev
n for yrenys gyel		






BELINE DEPART OF INCOMENTS

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sov/79-29-9-60/76 5(3) Yagupol'skiy, L. M., Fialkov, Yu. A. AUTHORS : 2-Trifluoromethyl Naphthalene and Its Derivatives TITLE: Zhurnal obshchey khimii, 1959, Vol 29, Nr 9, pp 3082-3086(USSR) PERIODICAL: The trifluoromethyl derivatives of naphthalene have hitherto ABSTRACT : not been investigated. The synthesis of 1-trifluoromethyl naphthalene briefly mentioned in an American patent (Ref 1) is very insufficiently described, i.e. no constants and no cxact course of synthesis, both of the final product and of 1-trichloromethyl naphthalene as initial product are given. The trichloromethyl derivatives of naphthalene are difficultly accessible (Ref 2). In the experiment made by A. N. Nesmeyanov (Ref 3) to obtain a-trichloromethyl naphthaand co-workers lene by thermal decomposition of the copper oxide salt of trichloroacetic acid in an excess amount of naphthalene it could not be separated. For this reason the o-chlorotrichloromethyl derivatives of naphthalene which were obtained from the corresponding oxynaphthoic acids with PCl₅ were used as initial products for the synthesis of the trifluoromethyl compounds of the naphthalene series. From the three o-oxynaphthoic Card 1/4

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sov/79-29-9-60/76 2-Trifluoromethyl Naphthalene and Its Derivatives according to the scheme described, 1-amino-2-trifluoromethyl naphthalene via 2-trifluoromethyl-1-naphthoic acid according to Hofmann. In the Hofmann reaction, which proceeds smoothly, the forming 1-amino-2-trifluoromethyl naphthalene hydrolyzes on heating in alkaline medium. For this reason the amine had to be removed by distillation from the reaction zone already at the moment of the formation. Thus, the otherwise low yield could be increased to 61%. By this method the instability of the trifluoro methyl group in 1-amino-2trifluoromethyl naphthalene towards aqueous alkali lyes was found (Ref 7). From the amine (VI) and α -naphthylamine (Ref 8) the dyestuffs (A) were obtained by diazotization and coupling with dimethyl aniline. As may be seen from the table the introduction of the trifluoromethyl group in of the dyestuff (A) shifts its absorption maximum in the direction of the short waves in neutral as well as in acid solutions. There are 1 table and 9 references, 1 of which is Soviet. ASSOCIATION: Institut organicheskoy khimii Akademii nauk Ukrainskoy SSR (Institute of Organic Chemistry of the Academy of Sciences Card 3/4

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3.

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413010011-0 sov/79-29-9-60/76 2-Trifluoromethyl Naphthalene and Its Derivatives of the Ukrainskaya SSR) July 18, 1958 SUBMITTED: Card 4/4ACK INCOM 建成型

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• ¹	S/079/60/030/04/55/080 B001/B002	
5.3600		
AUTHORS :	Yagupol'skiy, L. M., Fialkov, Yu. A.	
TITLE :	1-Phenyl-2-trifluoromethylethylene. Phenyltrifluoromethyl- acetylene and Their Derivatives	
PERIODICAL:		
	authors synthesized the vinylene homolog of benzotrifluoride (I) cresponding acetylene compound (II): $C_6H_5CH = CH-CF_3$ (I),	, ,
methylethyl to styrene, was the sub	CF ₃ (II). The initial product used was 1-phenyl-2-trichloro- lene (III) which was obtained by adding trichlorobromo methane , and separating hydrogen bromide (Refs. 1,2). Most successful bstitution of chlorine by fluorine in compound (III) by means of iffluoride in dioxane, by which (I) was obtained in good yields.	
1-pheny1-2- chlorine ar	rifluoride in dioxane, by which (1) was obtained in compounds with -trifluoromethylethylene (I) easily forms addition compounds with nd bromium, and develops two diastereoisomers which cannot be by vacuum distillation. Compound (I) does not enter into the esis, and according to Prilezhayev it does not develop an oxide	
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		河間
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	VISHNEVSKAYA, G.O.; GORBUNOVA, A.S.; ZHELOBENKO, V.A.; FIALKOV, Yu.A.; SHEVCHENKO, O.I.; YAGUPOL'SKIY, L.M.	
	Synthesis of the preparation bilignost. Med. prom. 14 no.9:25-30 S '60. (MIRA 13:9)	
	1. Kiyevskiy khimiko-farmatsevticheskiy zavod im. M.V. Lomonosova. (ADIPIC ACID)	
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CHEMOLOGICAL CONTRACTOR

YAGUPOL'SKIY, L.M.; FIALKOV, Yu.A.

Derivatives of a vinylene homolog of benzotrifluoride. Zhur, ob. khim. 31 no. 11:3586-3593 N '61. (MERA 14:11)

1. Institut organicheskoy khimii Akademii nauk Ukrainskoy SSR. (Toluene)

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IAGUPOL'SKIY, L. M.; FIALKOV, Tu. A. Saponification of nitric esters, derivatives of p-nitrophenylmethylcarbinol. Zhur. ob. khim. 33 no.1:309-314 '63. (MIRA 16:1) 1. Institut organicheskoy khimii AN UkrSSR. (Nitric acid) (Methanol) (Saponification)

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	AP6029834 (A) SOURCE CODE: UR/0073/66/032/008/0849/0852
UTHOR	: Yagupol'skiy, L. M.; Pavlenko, N. G.; Solodushonkov, S. N.; Fialkov, Yu. A.
DRG: JkrSSR	Institute of Organic Chemistry, AN UkrSSR (Institut organicheskoy khimii AN)
ITIE:	Nitro derivatives of benzotrichloride
OURCE	: Ukrainskiy khimicheskiy zhurnal, v. 32, no. 8, 1966, 849-852
COPIC organi	TAGS: organic nitro compound, halogenated organic compound, mixed halogenated compound
oonzot acid a of 10- the tr somer consis of ben and th Juori	CT: An attempt was made to find new methods of preparing nitro derivatives of richloride. Nitration of benzotrichloride was carried out by using pure nitrie and nitrating mixtures of various compositions. With HNO3 alone, taken in amount 30 moles per mole of benzotrichloride, even at -20°C a considerable hydrolysis of ichloromothyl group takes place, and the yield of the products, a mixture of ic nitrobenzotrichlorides, dees not exceed 30%. The optimum nitrating mixture ts of 25% HNO3 and 75% H2SQ4 (by weight), 3 moles of HNO3 being taken for 1 mol cotrichloride. The yield of isomeric nitrobenzotrichlorides then exceeds 90%, a isomers consist of 16.8% ortho-, 20.7% para- and 62.5% metanitro derivatives. nation of p-nitro-a,a,a-dichlorobromotoluene with antimony trifluoride and anny HF produced p-nitrobenzotrifluoride in good yield. The substitution of fluorin
	2 UDC: 547.539.232.3

the		1444 0 1		ILLV L	p-nitro- han in be uent in t	1770T 7	1 0 0 I 0 M	1001				•	
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YAGUPOL'SKIY, L.M., FIALKOV, Yu.A.

Vinylene homolog of benzotrifluoride. Fart 3: Polarization of a double bond in the derivatives of 1-phenyl-2. trifluoromethylethylene. Zhur. ob. khim. 35 no.6:1088-1091 Je '65. (MIRA 18:6) 1. Institut organicheskoy khimii AN UkrSSE.

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REPRESENTATION DE LA CONTRACTION DE LA HUBBERT PROPERTY F- 1 + 14K 4 C USSR/Inorganic Chemistry. Complex Compounds. : Referat. Zhurnal Khimiya, No 6, 1957, 18874 Abs Jour V.L. Pavlov, Yu.Ya. Fialkov. Author : Inst : Study of Interchange Reactions of Iodine in Systems Title Containing Iodine Chloride Using the Method of Marked Atoms. : Zh. Obshch. Khimli, 1956, 26, No 6, 1531-1534. Orig Pub : Using 1131 as a radioactive indicator, the inter-Abstract change reaction of ICl with I2, IO3 and IO4 in 0.4 of n. HCl. at 18° was studied. When the interchange reaction between ICl and $\rm I_2$ was studied, $\rm I_2$ was marked and the components were separated by the extraction of I2 with chloroform, and when the interchange reaction between ICL and KIO3 or NaIO4 was studied, marked ICL was used and ICL was extracted by ether. It was shown that in the system I2 - JC1 the complete interchange took place less than in 5 min. (separa-New State Unir, Card 1/2

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202.405.97 REALDER-FULLERED THEFTER GET DEV AND AND TALAOV K. USER/ Inorganic Chemistry. Complex Compounds Ĉ. Abs Jour : Referat Zhur - Khimiya, No 4, 1957, 11436 Author : Pavlov V.L., Fialkov Yu. Ya. Title : On Hypotriioditic Acid Orig Pub : Zh. obshch. khimii, 1956, 26, No 6, 1534-1540 Abstract : Half-exchange period of 0.0012 M HIO₃ and 0.0006 M solution of iodina in $5N H_2SO_{14}$ is of 460 hours at 18° ; the process is not catalyzed by Mn^{2+1} ions. Under the same conditions exchange between iodine and electropesitive iodine of a solution of hypotriioditic acid I₃OH (I) (Scrabel A., Buchta F., Chem. Ztg., 1907, 33, 1193) is completed within 4-5 mirutes. This confirms that the solution under study contains [sic] Kier State Unio 1/1. 12556 98529 5

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SSN 9994 C COMBRAND FORD and the second states of the second FIALKOV, Yu. YA. USSR/Physical Chemistry - Thermodynamics, Thermochemistry, в-8 Equilibria, Physical-Chemical Analysis, Phase Transitions. : Referat Zhur - Khimiya, No 1, 1958, 414 Abs Jour : V.V. Udovenko, Yu.Ya. Fialkov. Author Inst : Viscosity of Systems Germanium Tetrachloride - Ethers and Title Esters. : Zh. neorgan. khimii, 1957, 2, No 2, 434-438 Orig Pub : The viscosity and density of binary systems composed by Abstract cermanium tetrachloride (I) with ethyl acetate (II), anisole (III), dioxane (IV), diethyl ether (V) and dimemethylsulfide (VI) were measured. The systems I - II and I - III were studied at 20, 30 and 40°, the system I -IV was studied at 25 and 40° , and the systems I - V and I - VI were studied at 20° . All the operations of preparing the solutions and carrying out the measurements were done under airtight conditions. Viscosity was measured Card 1/2took Curied out at Kier Politich Inst. STORE STREET, S

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AUTHORS :	Udovenko, V. V., Fialkov, Yu. Ya. 79-28-3-54/61
TITLE:	The Viscosity of Binary Systems With a Substitution Reaction (Vyazkost ³ dvoynykh sistem s obmennym vzaimodeystviyem)
PERIODICAL:	Zhurnal Obshchey Khimii, 1958, Vol. 28, Nr 3, pp. 814-818 (USSR)
ABSTRACT :	The viscosity diagrams of binary systems are to a great extent systematized at present and are often used for the explanation of the occurring processes. When systems with chemical reactions are considered the present classifica- tion (Ref. 1) provides diagram types for such systems in which chemical reactions take place with a decrease of the molecular number, e.g. in the system water-chloral, or for systems in which the molecular number does not change, e.g. in the system acetic anhydride-water. Such systems have been little investigated. Therefore N. A.
Card 1/3	Trifonov suggested such model systems as, among other, diethyl water, systems conducive to visualization of the type of the diagram of viscosity when only

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The Viscosity of Binary Systems With a Substitution 79-23 -3-54/61 Reaction

> one chemical compound without a decrease of the molecular number is formed. It must be noted that in the system acetic anhydride-water the number of molecules remains the same after the chemical reaction had taken place as two molecules of acetic acid are formed from the molecules of this anhydride and water. The reaction leading to the formation of a chemical compound is not the only possible for reactions where the molecular num= ber remains unchanged. Not less frequent is the substitution reaction where the final products are two chemical compounds. Systems of this kind are of great interest for the theory of physical and chemical analysis; they have, however, not been investigated by any chemical scientist with respect to the viscosity method. Below, data on the viscosity of systems are mentioned in which one component is silicontetrachloride and the other one of the following compounds: methylal (dimethoxymethane), acetal (1,1-diethoxyethane) and acetic anhydride. Accor. ding to the methods of viscosity and density the binary systems silicontetrachloride-methylal at 20 and 30°C, silicontetrachloride-acetal at 20, 30 and 40°C and silicontetrachloride-acetic acid anhydride in benzene

Card 2/3

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The Viscosity Reaction	of Binary Systems With a Substitution 79-bi 3004/6:
	as indifferent medium at 20 [°] C were investigated. The authors found that in the reaction of silicontetrachlo= ride with methylal the final products are: dichlorodime= thoxysilane and chlorodimethylether, and with acetal: dichloroethoxysilane and chlorodiethylether. This reac= tion represents a new method of the synthesis of dichlo= rodialkoxysilane which differs from the existing ones by its good yield and by the purity of the products. There are 1 figure, 3 tables and 5 references, 4 of which are Soviet.
ASSOCIATION:	Kiyevskiy politekhnicheskiy institut (Kiyev Polytech= nical Institute)
UBMITTED:	March 3, 1957.
ard 3/3	**************************************
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sov/79-29-5-7/75 5(2) Fialkov, Yu. Ya. AUTHOR: On Experimental Errors in Some Papers Dealing With the Investigation of Tetrachlorides of Elements of the 4th Group (Ob eks-TITLE: perimental'nykh oshibkakh v nekotorykh rabotakh po izucheniyu tetrakhloridov elementov 4 gruppy) Zhurnal obshchey khimii, 1959, Vol 29, Nr 5, PERIODICAL: pp 1442 - 1446 (USSR) The present paper is a criticism of some papers dealing with the investigation of tetrachlorides of the elements of the 4th group. ABSTRACT: The most characteristic property of tetrachlorides of elements of the 4th group is their extremely pronounced tendency towards hydrolysis. For this reason very careful consideration must be given to the fact that all substances used in this work are thoroughly dried. In addition to this such conditions must be provided for that a penetration of moisture into the reagent containers is made impossible. The occurrence of minute quantities of hydroxides of the elements under review and of hydrochloride are apt to deform physical and physico-chemical properties of the solutions and the compounds formed in such a way that in-Card 1/2

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Study: of the Reactions of Iodine Exchange in S/078/60/005/007/036/043/XX Systems Containing Iodine Trichlorido $1004/3060$ was tagged with 1^{131} by adding radioactive INa to IK. The solution of ICl in HCl was prepared by A. I. Gengrinovich's method (Ref. 12). [Abstracter's Note: This method is not described here]. ICl was separated from ICl ₃ out of the mixture of their hydrochloric acid solutions by means of an excess of concentrated NaOH (reactions: 5ICl + 6NaOH = 2NaI + NaIO ₅ = + NaCl + 5H ₂ O and 5ICl ₃ + 12NaOH = NaI + 2NaIO ₃ + 9NaCl + 6H ₂ O). NaI was separated from NaIO ₅ by means of a method described by K. B. Zaborenko, M. B. Neyman, and V. I. Samsonova (Ref. 13) making use of AgNO ₅ . The pre- cipitates were checked for their activity by a Geiger-Müller counter. The result is shown in Table 1.		
Systems Containing Iodine Trichloride E004/3060 was tagged with I^{131} by adding radioactive INa to IK. The solution of ICl in HCl was prepared by A. I. Gengrinovich's method (Ref. 12). [Abstracter's Note: This method is not described here]. ICl was separated from ICl ₃ out of the mixture of their hydrochloric acid solutions by meana of an excess of concentrated NaOH (reactions: 3ICl + 6NaOH = 2NaI + NaIO ₃ - + NaCl + 3H ₂ O and 3ICl ₃ + 12NaOH = NaI + 2NaIO ₃ + 9NaCl + 6H ₂ O). NaI was separated from NaIO ₃ by means of a method described by K. B. Zaborenko, M. B. Neyman, and V. I. Samsonova (Ref. 13) making use of AgNO ₃ . The pre- cipitates were checked for their activity by a Geiger-Hüller counter. The result is shown in Table 1. $\frac{V_{AJ}}{I_{Cl}}$ $\frac{JOI6}{ISI3}$ $\frac{IS76}{I779}$		
Systems Containing Iodine Trichloride E004/B060 was tagged with I^{131} by adding radioactive INa to IK. The solution of ICl in HCl was prepared by A. I. Gengrinovich's method (Ref. 12). [Abstracter's Note: This method is not described here]. ICl was separated from ICl ₃ out of the mixture of their hydrochloric acid solutions by meana of an excess of concentrated NaOH (reactions: 5ICl + 6NaOH = 2NaI + NaIO ₃ - + NaCl + 3H ₂ O and 5ICl ₃ + 12NaOH = NaI + 2NaIO ₃ + 9NaCl + 6H ₂ O). NaI was separated from NaIO ₃ by means of a method described by K. B. Zaborenko, M. B. Neyman, and V. I. Samsonova (Ref. 13) making use of AgNO ₃ . The pre- cipitates were checked for their activity by a Geiger-Hüller counter. The result is shown in Table 1. N cmura 1 1 1016 1876 1 1 1016 1876		
in HCl was prepared by A. I. Gengrinovich's method (Ref. 12). [Abstracter's Note: This method is not described here]. ICl was separated from ICl ₃ out of the mixture of their hydrochloric acid solutions by meana of an excess of concentrated NaOH (reactions: $3ICl + 6NaOH = 2NaI + NaIO_3 - NaCl + 3H_2O$ and $3ICl_3 + 12NaOH = NaI + 2NaIO_3 + 9NaCl + 6H_2O$). NaI was separated from NaIO ₃ by means of a method described by K. B. Zaborenko, M. B. Neyman, and V. I. Samsonova (Ref. 13) making use of AgNO ₃ . The pre- cipitates were checked for their activity by a Geiger-Hüller counter. The result is shown in Table 1. $M_{\text{cnum}} = \frac{M_{\text{conventor}} + nan/mut}{A_{\text{cl}} - nonyconrometry} + \frac{1}{1016} = \frac{1876}{1813} = \frac{1916}{1779}$		Study of the Reactions of Iodine Exchange in S/078/60/005/007/036/043/XX Systems Containing Iodine Trichloride B004/B060
of an excess of concentrated NaOH (reactions: $3IC1 + 6NaOH = 2NaI + NaIO_3 - NaC1 + 3H_2O and 3IC1_3 + 12NaOH = NaI + 2NaIO_3 + 9NaC1 + 6H_2O). NaI was separated from NaIO3 by means of a method described by K. B. Zaborenko,N. B. Neyman, and V. I. Samsonova (Ref. 13) making use of AgNO3. The pre-cipitates were checked for their activity by a Geiger-Hüller counter. The result is shown in Table 1.\frac{V_{AHTUBHOOTE & R NA/NHH,}{N CHUTA} \frac{AgJ. ROAYWEBHOFO H3:}{JCI, JCI} \frac{1}{12} \frac{1916}{1813} \frac{1876}{1779}$		in HCl was prepared by A. I. Gengrinovich's method (Ref. 12).
+ NaCl + $3H_2O$ and $3ICl_3$ + $12NaOH = NaI + 2NaIO_3 + 9NaCl + 6H_2O). NaI wasseparated from NaIO3 by means of a method described by K. B. Zaborenko,M. B. Neyman, and V. I. Samsonova (Ref. 13) making use of AgNO3. The pre-cipitates were checked for their activity by a Geiger-Müller counter. Theresult is shown in Table 1.\frac{Menual AgJ. nonyvennor max}{JCl_1, JCl_1}$		of an excess of concentrated NaOH (reactions: 3ICl + 6NaOH = 2NaI + NaIO3
separated from NaIO; by means of a method described by K. B. Zaborenko, M. B. Neyman, and V. I. Samsonova (Ref. 13) making use of AgNO; The pre- cipitates were checked for their activity by a Geiger-Hüller counter. The result is shown in Table 1. N cnura N cnura 1 1916 1876 1 1916 1876 1 1916 1876		
M. B. Neyman, and V. I. Samsonova (Ref. 13) making use of AgNO ₃ . The pre- cipitates were checked for their activity by a Geiger-Hüller counter. The result is shown in Table 1. Menura Nonura 1 1916 1876 1 1916 1876 1 1916 1876		separated from NaIO, by means of a method described by K. B. Zaborenko,
cipitates were checked for their activity by a Geiger-Hüller counter. The result is shown in Table 1.		
N спита Асј. полученного из: 1 1010 1876 2 1813 1779		M. B. Neyman, and V. I. Samsonova (Ref. 13) making use of AgNO3. The pre-
N cnura JCl, JCl 1 1916 1876 2 1813 1779		M. B. Neyman, and V. I. Samsonova (Ref. 13) making use of AgNO3. The pre- cipitates were checked for their activity by a Geiger-Müller counter. The
1 1916 1876 2 1813 1779	•	M. B. Neyman, and V. I. Samsonova (Ref. 13) making use of AgNO ₃ . The pre- cipitates were checked for their activity by a Geiger-Müller counter. The result is shown in Table 1.
2 1813 1779	•	M. B. Neyman, and V. I. Samsonova (Ref. 13) making use of AgNO ₃ . The pre- cipitates were checked for their activity by a Geiger-Müller counter. The result is shown in Table 1.
	•	M. B. Neyman, and V. I. Samsonova (Ref. 13) making use of AgNO ₃ . The pre- cipitates were checked for their activity by a Geiger-Müller counter. The result is shown in Table 1.
		M. B. Neyman, and V. I. Samsonova (Ref. 13) making use of AgNO ₃ . The pre- cipitates were checked for their activity by a Geiger-Müller counter. The result is shown in Table 1.
Card 2/5		M. B. Neyman, and V. I. Samsonova (Ref. 13) making use of AgNO3. The pre- cipitates were checked for their activity by a Geiger-Hüller counter. The result is shown in Table 1.

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B004/B060

Study of the Reactions of Iodine Exchange in S/078/60/005/007/036/043/XX Systems Containing Iodine Trichloride

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		JCh	кјо,	
1 2 3 4	0,75 • 1,25 72,0 122,0	842 788 1375 1206	8 5 12 10	

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3) The $ICl_3 - NaIO_4$ system was studied in a similar manner. 4) NaI - NaIO₄ system. In this system, NaI was tagged, the reaction taking place in 0.1 N NaOH. The components were separated by the method described in Ref. 13 by allowing AgIO4 to dissolve in concentrated NH3. The following results were obtained: 1) In the ICl₃ - ICl system, a complete exchange took place over a period shorter than the time of treatment of the mixture (3 min). This is explained by tautomerism between 1^{3+} [Cl₃] and I (Cl₂)Cl⁻. 2) No iodine exchange was observed in the three other systems. Results Card 4/5

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"APPROVED FOR RELEASE: 06/13/2000 In the second state of the 221222 · 他们的这些事情的事情的。 Study of the Reactions of Iodine Exchange in S/078/60/005/007/036/043/XX Systems Containing Iodine Trichloride B004/B060 confirm the conclusions drawn by the authors of Ref. 9 to the effect that an exchange takes place only with reversible chemical interaction. The author mentions V. L. Pavlov and a study conducted jointly with V. P. Tolstikov. There are 4 tables and 16 references: 10 Soviet, 2 US, 3 French, and 1 German. ASSOCIATION: Kiyevskiy politekhnicheskiy institut, Laboratoriya radiokhimii (Kiyev Polytechnic Institute, Laboratory of Radiochemistry) SUBMITTED: March 20, 1959 Legend to Table 1; Exchange in the ICl₃ - ICl system a) No. of experiment, b) activity in imp/min of AgI, obtained from: Legend to Table 2: Exchange in the ICl3 - KIO3 system a) No. of experiment, b) duration of exchange, hours, c) activity in imp/min of AgCl, obtained from: Card 5/5

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413010011-0

		S/079/60/030/012/001/027 B001/B064
AUTI	IOR :	Fialkov, Yu. Ya.
TITI	Ε:	The Diagram "Composition - Property" as a Function of the Chemical Interaction in Binary, Liquid Systems. I. Diagrams of Viscosity
PERI	ODICAL:	Zhurnal obshchey khimii, 1960, Vol. 30, No. 12, PP. 3860-3865
of tl inter to th	ne viscosi action mu le viscosi e of chem	tudy is based on the theory that the diagram "composition - binary liquid systems is due to chemical interaction. The scosimetrically studied. The author assumed that in the case $$ ity diagrams of binary liquid systems, the degree of chemical — ity value. One of the methods of studying the effect of the dical interaction upon the kind of the viscosity diagram, is the a number of other components whose patimity is the same compo-
based		parison of several systems in which one and the same compo- th a number of other components whose activity with respect

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The Diagram "Composition - Property" as a Function of the Chemical Interaction in Binary, Liquid Systems. I. Diagrams of Viscosity

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to the former was determined by independent methods. Some of these components along with data from publications are listed. As far as the system "acetic acid and acids at 25°C" is concerned, it is shown that a visible relation of the maximum value of viscosity to the degree of chemical interaction cannot be established in the binary system. This was ascribed to the effect of viscosity of the second component upon the maximum viscosity. Data on the viscosities of the systems "perchloric acid - acids at 50°C" are presented. The second components are arranged in accordance with the reduction of their acidity. Since perchloric acid is a particularly strong acid, all second components in the above system are bases according to M. I. Usanovich (Refs. 16-19). The form of the isothermal lines of viscosity changes with the degree of interaction. The viscosity of the systems "nicotine - acids at 75°C" is given. The acids are arranged such that in this series the degree of chemical interaction is bound to decrease from formic to stearic acid. Thus, it was shown that the relative viscosity maximum in binary systems having one component in common depends directly on the degree of chemical interaction. The qualitative Card 2/3

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Function of t	'Composition - Property" as a the Chemical Interaction in id Systems. I. Diagrams of	s/079/60/030/012/001/027 B001/B064	
Terative A180	e degree of interaction is reve cosity maximum. N. S. Kurnnkov, re mentioned. There are 5 table	ealed by the change of the N. N. Stepanov, and Ye. Ye. es and 26 references: 24 Soviet	
ASSOCIATION:	Kiyevskiy politekhnicheskiy i Institute)	nstitut (Kiyev Polytechnic	/
SUBMITTED:	January 11, 1960		
Card 3/3			

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FIALKOV,	Yu.Ya.; TARASENKO, Yu.A.	
	Exchange of iodine in the system $I_2 - I_2O_5$. Zhur.neo 7 no.5:1132-1136 My '62.	org.khim. (MIRA 15:7)
	1. Kiyevskiy politekhnicheskiy institut, laboratoriya (Iodine) (Iodine oxide)	a radiokhimii.

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"你们们可以是你们的问题。" 第二章



Physicochemical analysis of the system Pyrosulfuric acid monochloroacetic acid. Zhur. ob. khim. 33 no.1:9-15 '63. (MIRA 16:1)

1. Kiyevskiy politekhnicheskiy institut.

(Pyrosulfuric acid) (Acetic acid)

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CIA-RDP86-00513R000413010011-0

FIALKOV, Yu.Ya.; ZHIKHAREV, V.S.

Physicochemical analysis of some binary systems containing trifluoroacetic acid. Zhur.ob.khim. 33 no.12:3789-3795 D '63. (MIRA 17:3)

1. Kiyevskiy politekhnicheskiy institut.

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CIA-RDP86-00513R000413010011-0

L 18320-63 EWT(m)/BDS RH ACCESSION NR: AP3004972	s/0076/63/037/008/1745/1749
AUTHOR: Fialkov, Yu. Ya.	5/
TITLS: Calculation of viscosity is with non-interacting compo	sotherms or <u>binary systems</u>
SOURCE: Zhurnal fiz. khimii, v. 3	7, no. 8, 1963, 1745-1749
TOPIC TAGS: binary system, real a isotherm, non-interac	system, viscosity isotherm, ting component
ABSTRACT : Present: equations for t	the calculation of viscosity of
binary systems with non-interactin assumption that the viscosity of t viscosities of the components and components. Since actual binary s	the system is a function of the concentration of one of the
concept of ideality, the derived a	equations cover either small
groups of systems or a limited rar system. A large number of real sy	stems was examined by the author
in order to find a general express	sion for the <u>viscosity</u> of a
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	for help in the calculations a approximation of the curves." equations and 3 tables.	and to <u>M. M Pokhil</u> for Orig. art. has: 1 fi	r help in Lgure, 5			
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i	SUBMITTED: 02Jan61	DATE ACQ: 06Sep63	ENCL: 00			
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