

SOLOVEYCHIK, S.I.

Central Sci. Res. Lab., Alcohol Industry, (1946)

Central Pharm. Sci. Res. Inst., (1916)

"Quantitative Analysis of Essential Cils in Aqueous Alcoholic and Aqueous Solutions (Fragrant Spirits, Waters and Infusions)"

Zhur. Analit, Khim., No.3, 1946

BOLCVFYCHIK, b. I. Cand. Unem. Bot.

Dissertation: "Determination of the quantitative Content of Essential Oils in Alcohol-Vodka Solutions and Aqueous Solutions." Moscow Inst of Fine Chemical Technology imeni M. V. Lomonosov, 19 May 47.

SO: Vechernyaya Moskva, May, 1947 (Project #17836)

SOLOVEY CHIM, MA.S.

AID P - 5038

Subject

USSR/Engineering

Card 1/1

Pub. 103 - 9/22

Authors

Zagolikhinskaya, E. L. and Ya. S. Soloveychik

Title

Fitting and assemblying internal polishing spindles on

anti-friction bearings.

Periodical

Stan. 1 instr., 4, 28-32, Ap 1956

Abstract

The authors describe the analytical work carried out to establish the most efficient method of putting together the internal polishing spindles in anti-friction bearings. These bearings were installed in the automatic lines at the First State Bearing Works (1 GPZ), the Moscow Plant for Polishing Machines (MSZ) and Bureau-6 for Design of Machine Tools (SKB-6). Eleven formulae, 11 drawings and

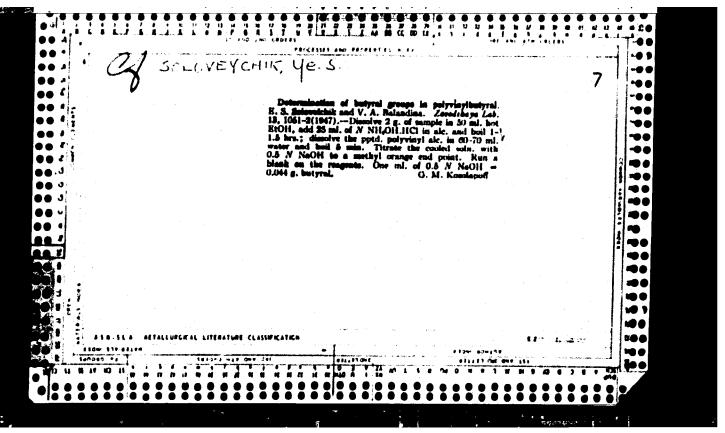
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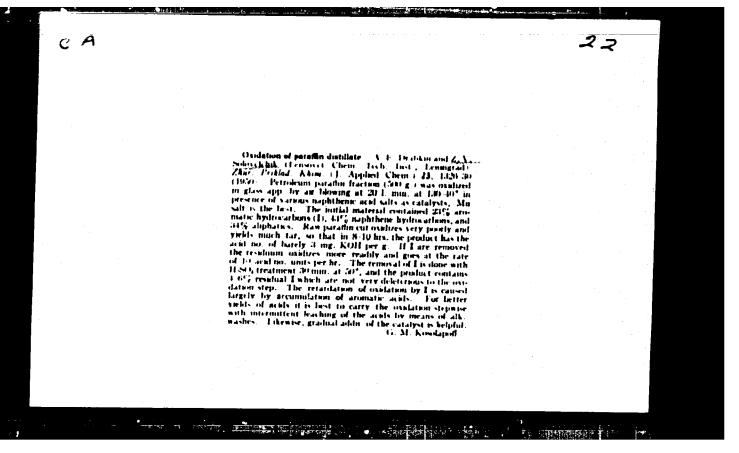
Institution:

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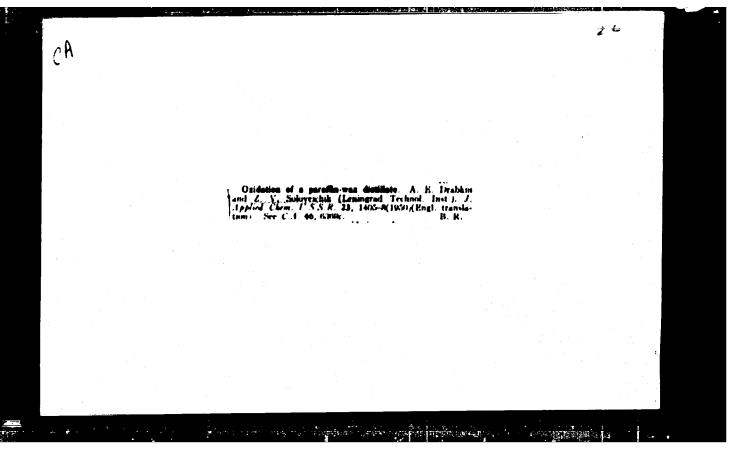
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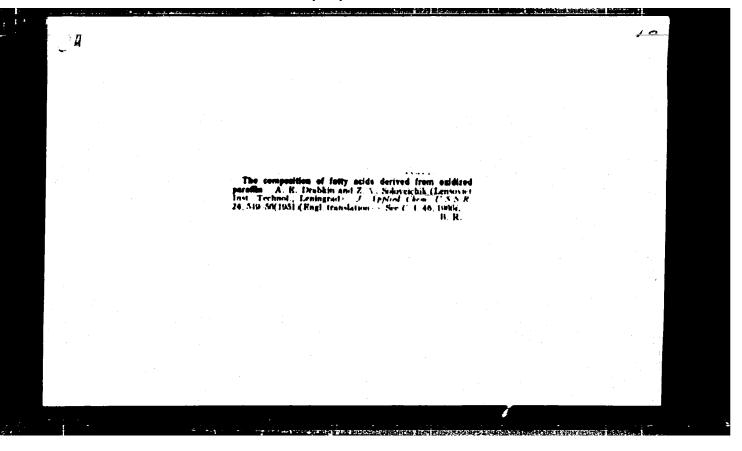




CIA-RDP86-00513R001652310007-6" **APPROVED FOR RELEASE: 08/25/2000**



	USSR/Chemistry - Petroleum	Nay 51	
	"Investigation of the Composition of From Oxidized Paraffin," A. Ye. Dre Soloveychik, Leningrad Tech Inst in	ibkin, Z. V.	
	"Zhur Prik Khim" Vol XXIV, No 5, pr	502-508	·
	Sepd from oxidized Groznyy paraffix dividual monobasic acids of normal longing to unbroken series $C_nH_{2n}O_2$	structure be-	
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PROSMURYAKOV, V.A.; REMEASHEVSEIY, A.G.; SOLOVEICHIK, Z.V.

Flotation of ores of the Borislav deposit Report No.1. Trudy LTI
(NIRA 13:8)

(Borislav--Ozocerite)

(Flotation)

CHISTYAKOV. A.N., SOLOVEYCHIK, Z.V.

Separation of elemental sulfur from a spent bog ore by flotation.

Trudy LTI no.51:145-149 '59.

(Sulfur) (Ore dressing)

PROSKURYAKOV, V.A.; REMBASHEVSKIY, A.G.; SOLOVEYCHIK, Z.V.

Flotation cleaning of Volga states. Report No.1: Flotation cleaning of Obshchiy Syrt shales. Trudy VNIIT no.10:5-22 '61. (MIRA 15:3) (Obshchity Syrt—Shale) (Flotation)

PROSKURYAKOV, V.A.; SOLOVEYCHIK, Z.V.; Prinimali uchastiye: TROSTYANSKAYA, A.G.; KUPRIYANCHIK, A.D.

Oxidation of oil shales by atmospheric oxygen. Report No.2: Oxidation of Cdov shales in continuous air feed. Trudy VNIIT no.10:81-90 '61. (Gdov--Oil shales)(Oxidation)

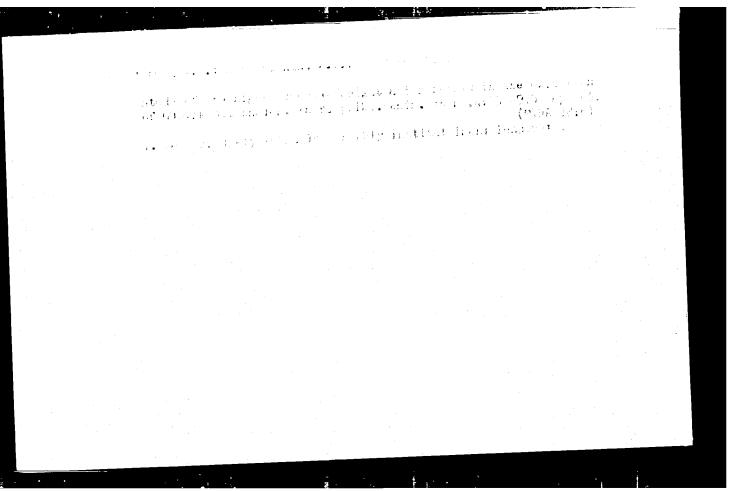
PROSKUPYAKOV, V.A.: REMBASHEVSKIY, A.G.; COLOVEYCHIK, 7.V.

Flotational enrichment of oil shale. Report No. 2. Shale of the Kashpir field. Trudy VNIT no. 11:5-19 162. (MTRA 17.5)

PROSELPYAROV, V.A.; REMBASHEVOZIY, A.G.; SOLOVEYCHIE, I.V.

Flotation enrichment of Savel'yevka shales and technical features
of concentrates of Volga shales. Trudy VMIIT no.13:10-21 '64.

(HEA 18:2)



PROGRESTAROY, V.A.; SOLOVETCHIK, Z.V.

Oxidation of the Gdov shale in a n-aqueous alkaline medium.
Zhur.prikl.khim. 38 no.3:632-638 Mr 165. (MIRA 18:11)

1. Leningradskiy tekhnologicheskiy institut imeni lensoveta. Supritted April 20, 1964.

GAVRILA, I., Prof.; COMES, L., conf.; SERBAN, I., dr.; SOLOVIN, M., dr.; GHIDALI, M., dr.; PIRVU, C., dr.; IEPUREANU, A., dr.; CUCU, Al., dr.; BUCIU, M., dr.; URCAN, S., dr.; LUCA, E., dr.

Interpretation of blood sedimentation rates in infectious diseases. Med. int., Bucur. 8 no.4:525-532 Aug 56.

1. Lucrare efectuata in Clinica de boli contagioase dir. Cluj. (INVECTION, blood in sedimentation rate, determ. & relation to intensity of dis.)

(BLOOD SEDIMENTATION, in various dis. infect. dis., determ. & relation to intensity of dis.)

(COMMUNICABLE DISEASES, blood in sedimentation rate, determ. & relation to intensity of dis.)

The role of antibiotics and corticoid preparations in current treatment of diphtheric cross. Stud. corect. mod. intern. 3 no.2:189-195 %2.

(DIPHTHERIA therapy) (LARRIGITIS therapy)

(AUSTIBIOTICS therapy) (ADR.NAL CORTEX HORNOURS therapy)

(IMMUNE SERUMS therapy)

GAVRILA, I., prof.; MURESIAMU, T., dr.; SOLOVIEV, M., dr.; SUCIU, O., dr.; BALABAN, C.

The clinical aspect of Salmonella typhimurium infections. Hed. intern. 14 no.6:653-658 Je '62.

1. Lucrare efectuata in Clinica de boli contagioase, I.M.F., Cluj. (SALMONELLA INFECTIONS) (SALMONELLA TYPHIMURIUM)

RILIANIA

GAVRILA, I., Profossor; ICNA, M., HD; CORGAN, V., MD; ECILOVIEV, M., MD; HEGGHIREANU, T., MD.

Clinic of Contagious Diseases (Clinica de boli contagioase), Cluj; Director: Professor I. Gavrila. - (for all)

Bucharest, Viata Medicala, No 5, 1 Mar 63, pp 313-322.

The Accidents in Corticotherapy in Infectious Pathology.

(5)

GAVRILA, I., Prof, and SOLOVIEV, M., Dr. Work performed at the Clinic for Contagious Diseases (Clinica de Boli Contagioase), Cluj.

"Epidemiological and Clinical Remarks on Anthrax in Cluj During the Last 13 Years (1950 to 1962)."

Bucharest, Microbiologia, Parazitologia, Epidemiologia, Vol 8, No 5, Sep-Oct 63, pp 445-449.

Abstract [Authors' English summary modified]: Between 1950 and 1962, 84 cases of anthrax were treated at the Cluj Clinic for Contagious Diseases, of which 12 were children. None of the cases was lethal; all presented cutaneous localization, 8 with malignant edema and 76 with malignant pustulae. Sources of infection were animals or their products in 39 cases, insect bites in 10, other causes in 3 and unidentified in 32 cases. It is pointed out that the morbidity rate has been falling to no cases at all in Cluj during 1962, and that mortality has been brought down to zero from 6% since sulfonamides and especially antibiotics have been associated with serum therapy. Includes 1 table and 7 references, of which 1 Russian

and 6 Rumanian.

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GAVRILA, I., prof.; SOLOVIEV, M., dr.

Epidemiological and clinical considerations on anthrax in Cluj in the past 13 years (1950-1962). Microbiologia (Bucur) 8 no.5:445-449 S-0'63

1. Lucrare efectuata in Clinica de boli contagioase, Cluj; prof. I. Gavrila.

OSTHOUSKAYA, N.N.; SOLOVIEV, N.H.

Electron microscopy of phase lysis of Brucellae. J. hyg., epidem.
6 no.1:24-29 162.

1. N.F. Gamaleya, Institute of Epidemiology and Microbiology, Academy of Medical Sciences of USSR, Moscow.

(BRUCELLA) (BRUCELLA) (MICROSCOPY ELECTRON)

SOLOVIEV, O. A. [Solov'yev, O. A.]

Distribution of magnetic anomalies in metalliferrous and nonmetalliferrous formations. Analele geol geogr 15 no.4:59-66 O-D 161.

(Minerals) (Magnetic properties)

SOLOYINA,

V-10

USSR/Pharmacology. Toxicology. Toxicology.

: Ref Zhur-Biolog., No 6, 1958. 28279. Abs Jour

: Solovina V. I. Author

: Restoration of the Organism's Life Functions in : Not given Inst

Acute Intoxication with Carbon Monoxyde. Title

: Patol. fiziologiya i eksperim. terapiya, 1957, 1, No 1, 12-19

Orig Pub

: Of seventeen dogs intoxicated by CO and for a period of 12 seconds to 4 minutes and 30 seconds Abstract

period of 12 seconds to 4 minutes and 50 seconds in a state of clinical death, in 14 it was possible to induce a rapid restoration of cardiac sible to induce a rapid restoration of the V. A. Negovsky activity by the application of the V. A. Negovsky method of revivification. Later, however, all the

Card 1/2

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SOLOVIYHV, Aleksandr Dmitriyevich, dots. kmnd.tekhn.nauk; GOLUBKOVA, Ye.S., red.; KOGAH, F.L., tekhn.red.

[Manual on connecting lines of a road to points of triangulation and polygonometry] Posobie po priviazke trassy dorogi k punktam triangulistsii i poligonometrii. Moskva, Nauchno-tekhn.izd-vo triangulistsii i poligonometrii. Moskva, Nauchno-tekhn.izd-vo avtotransp. lit-ry, 1957. 48 p.

(Roads--Surveying)

li2046 \$/207/62/000/004/005/006 1054/1242

AUTHORS: Gusov, V.V., Pridantsev, A.I., Soloviyev, A.N. (Moscow)

TITLE: Determination of the coefficient of heat transfer to boiling liquids with a continuously changing heat flux

PERIODICAL: Zhurnal prikladnoy mekhaniki i tekhnicheskoy fiziki, no.4, 1962, 111-114

TEXT: The difficulties in obtaining heat transfer coefficients for boiling liquids, particularly the problem of measuring the temperature of the heating surface are explained. A method to overcome these difficulties is proposed. It is assumed that the heat transfer follows the law $\mathcal{A} = Cq^n$ and the effective temperature difference is given by $t_w - t_f = q/f = \frac{1}{C}q^{1-n}$. Since the thermocouple is situated a certain distance under the surface the relation is situated a certain distance under the surface the relation $\Delta t_{wl} = K_1 q^m - K_2 q = \varphi(q)$ is obtained, where Δt_{wl} is the temperature difference between the fluid and the thermocouple junction. The

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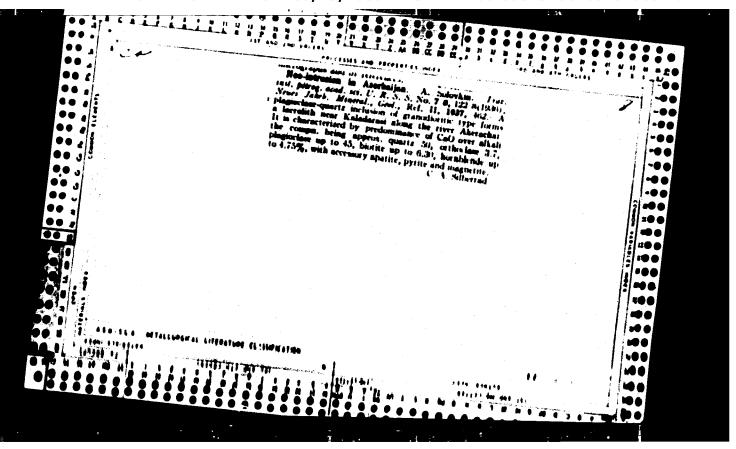
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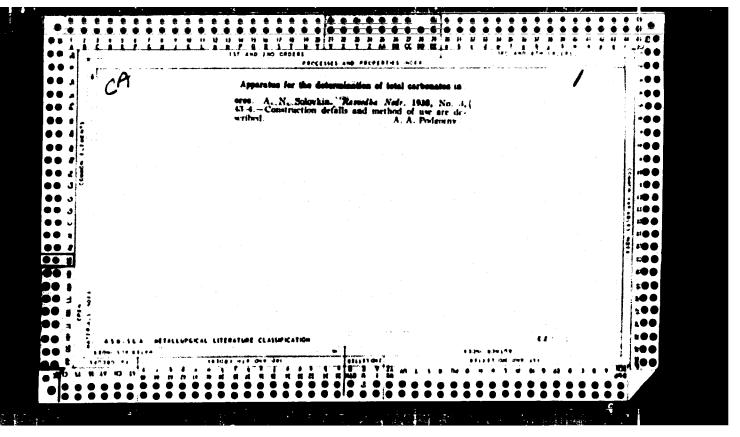
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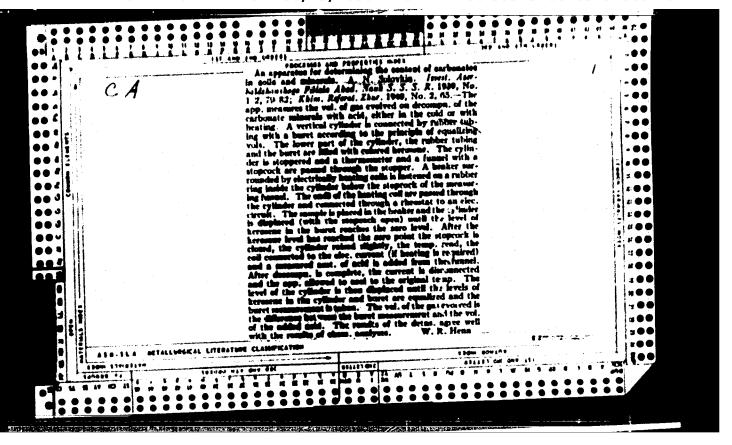
SOLOVJEV,M.

Seculies eccentric contractions of the gallbladder clearved after administration of Jopagnost Spofa. Cook. rentgen. 18 no.3:121-186 My ?6.

1. Rentgenove odtaleni Ce. statnich lezni v Karlovych Verech; vodenci: MUDr. L. Svab.



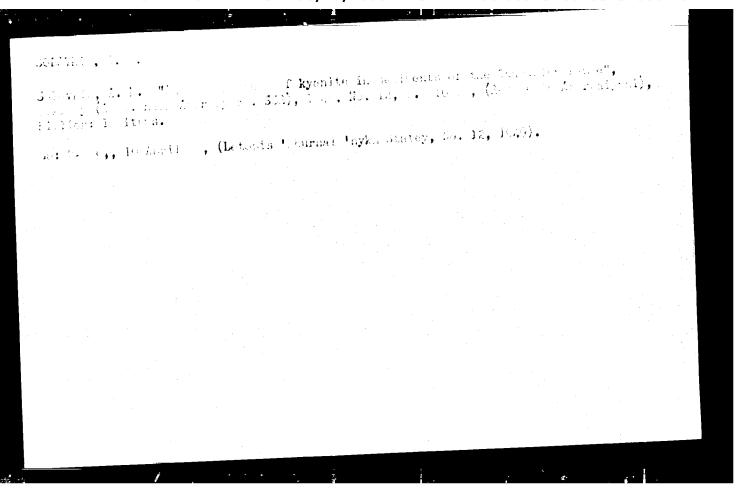




SOLOVKIN, A. N.

"On the Age of the Intrusions of the North-Eastern Part of the Little "ausasus" Dok. An, 43, No. 5, 1944; "New Data on the Occurrence of Ores in the Intrusion of the Little Caucasus (Azerbayoshan SSR), 1 ibid., 48, No. 8, 1945; "Analcime Rocks in the Little Caucasus (Azerbayoshan SSR), 49, No. 1, 1945; "Quartz in the Jurassic Deposits of the casus (Azerbaydshan SSR), 49, No. 1, 1945; "Quartz in the Jurassic Deposits of the Southern Slope of the Main Caucasian ange (Azerbaydshan SSR), 1 ibid., 55, No. 2, 1948; "Intrusions in the Area between the Terter and Kyprok-Char Rivers in Azerbaydshan SSR, 1 ibid.; "The SouCalled Chartz Pownham! of the Little Caucasus (Azerbaydshan SSR) ibid.: "The So-Called Quartz Porphyry of the Little Caucasus (Azerbaydshan SSA), ibid. ibid.; The bo-walled quartz rorphyry of the Livile caucasus (Azerbaydshan ---), ibid. No. 8, 1948; "Cretaceous Volcaniam and the Stratigraphy of the Cretaceous Period in the Eastern Transcaucasus, " Is. Ak. Nauk SSSR, Ser. Geol., 2, 1949.

UESER/Goolog.	1945	
"Armleime Rocks in the Little Caucasus SSR)," A. N. Solovkin, 2 pp	(Azerbaijan	
"CR Acad Sci" Vol XLIX, No 1		
Recent investigations in the eastern f Little Caucasus, showing presence of a and aiding prediction of the position facies in the folded zones of Transcau	of teachenite	
Little Caucasus, showing the mostifon	of teachenite	
Little Caucasus, showing the mostifon	of teschenite	



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SOLOVKIN, A. N.

UBER/Geology Quarts Apr 1948

"Quartz in the Jurassic Deposits of the Southern Slope of the Main Caucasian Range (Azerbaydzhan SSR)," A. N. Solovkin, 4 pp

"Dok Akad Hauk SSSR, Nova Ser" Vol IX, No 2

Presents one part of the work of studying the petrography of the southeastern part of Greater Caucasia as source on formation of the stratigraphy of Apsheron. No mineralogical description of the Mesozoic layers. Describes the role of quartz in complex deposits of southern slopes of the Caucasus range. Submitted by Academician D. S. Belyankin, 14 Feb 1948.

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SOLOVEII', A.	Ŋ.		
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		Apr 1946	•
	USER/Geology Tectonics		
	Petrology		
	"Instructions in the Area Between Rivers in Azerbayd	en the Terter and zhan SSR," A. N.	
	Soloykin, 25 PP		
	"Dok Ak Nauk SSSR" Vol II, No	o 3	
	Composition and characteristic which were studied by author by Acad D. S. Belyankin 14 Feb.	os of subject intrusions during 1945. Submitted	
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USSR/Geological Prospecting
Quartz

"The So-Called 'Quartz Porphyry' of the Little Caucasus (Azerbaydzhan SER)," A. N. Solovkin, 3 pp

"Dok Ak Nauk SSER" Vol LX, No 8

Region encompasses about 15% of territory that falls under the classification of the Mesozoic complex of the Shakhdagakiy and Murovdatskiy ranges. Briefly describes some characteristics of this quartz porphyry. Submitted by Acad D. S. Belyankin 19 Apr 1948.

SOLUMEN, A. N.

Solovkin, A. h. - "Relies of ancient river vall is in the region of the southeastern Caucasus", boklady (Akad. nauk Azerbaydzh. SSE), 12h2, No. 2, p. 51-5h, (Resume in Azerbaijani).

So: U-h110, 17 July 53, (Letopis 'Zhurnal 'nykh Statey, No. 19, 1949).

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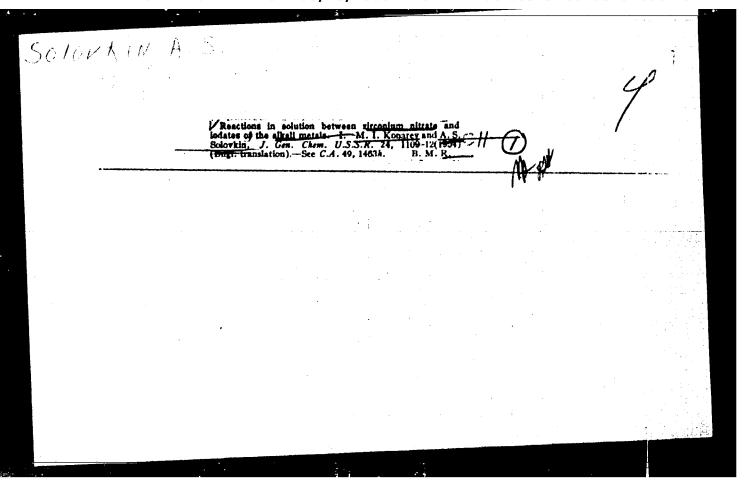
SULTANOV, A.D.; SOLOVKIN, A.H.; SZIDOV, A.G.; SULETMANOV, D.M.

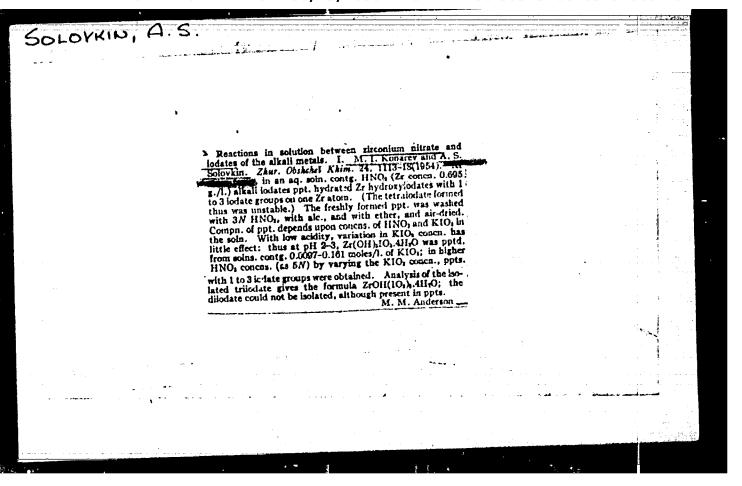
"Study of sedimentary rocks" by G.I. Teodorovich. Reviewed by
A.D. Sultanov and others. Ev. AN SSSR. Ser. geol. 25 no.2:109-111

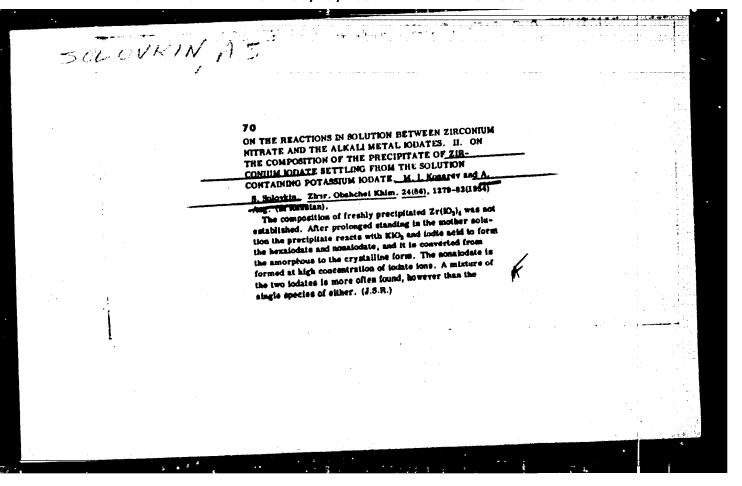
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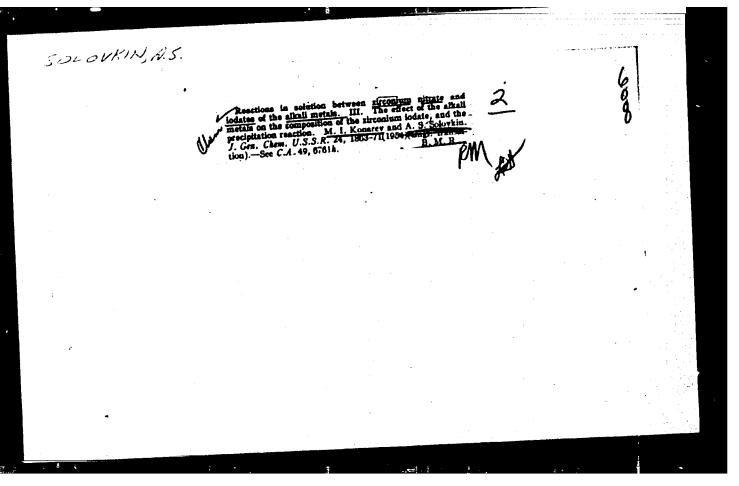
(Rocks, Sedimentary)

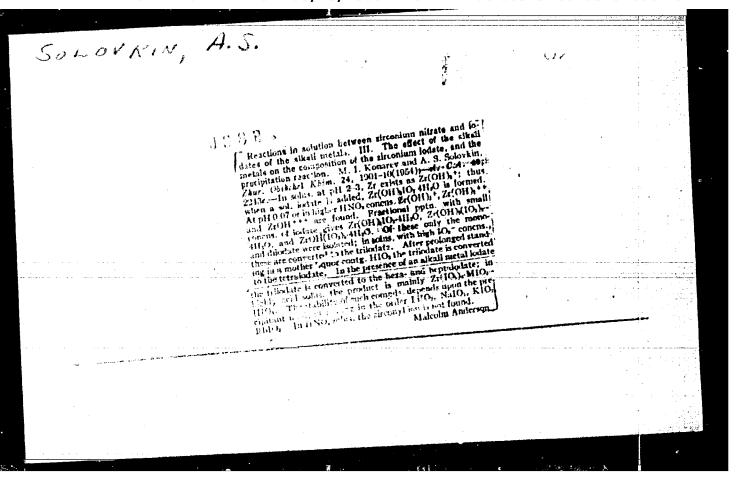
(Teodorovich, G.I.)











C.

UCSR/Inorganic Chemistry - Complex Compounds

Abs Jour

122727

: Referat Zhur - Khimiya, No 2, 1957, 4088

Konarev, M.I., Panteleyeva, A.N., Repina, V.V.,

Author

Title

: On the Influence of the Nature of the Acid on the Composition of Freshly-Precipitated Zirconium Todates

Zh. reorgan. khimii, 1956, 1, No 3, 392-399

Abstract

Orig Pub

A continuation (see RZhKhim, 1955, 5483, 23536, 26023) of the investigation of Zr todates. From mitric-, hydrochloric-, and perchloric avid solutions Zr was preci-

pitated as Zr(OH)3(103) (I), Zr(CH)2(103)2 and

Zr(OH)(103)3 (II). Fractional precipitation of individual hydroxy-iodates is possible. The authors attribute the formation of precipitates of varying composition (from I to II) to the presence, in the solutions, of the ions $2r(OH)^{3+}$, $2r(OH)^{2+}$ and $2r(CH)^{3+}$, with which 10^{3-}

- 8 -

card 1/2

- Prosess specin and less acidic solutions, -courting precipitates are found to contain mixtures of I with basic sulfates, which are converted to I in

the presence of large excess of the precipitating while on increase 25/25/2000 neen Crana DB 86: 00513R001652310007-6"

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die solutions are precipitated the icdates 2r(so4)2. H2504+ 4103- +2KTO3 - ZrIO3)4.2KTO3 + 2H + +

 350_{4}^{2} and $2r(50_{4})_{2}.H_{2}50_{4} + 410_{3}^{-} + 2k10_{3} + k10_{3}.2HIc_{3}$

 \rightarrow Zr(10₃)₄,3KI0₃.2HI0₃ + 2H⁺ + 3SO₄². The occurrence

of ions $2r0^{2+}$ and $2r^{4+}$ in the solutions under study was

Card 2/2

-9-

SOLOLAIN AS

Solovkin, A. S. AUTHOR:

78-3-18/35

TITLE:

Determination of the Hydrolysis Constants and the Complex-Formation Constants of Zr4+ with Nitrate and Chlorine Ions by the Extraction Method. (Opredeleniye Konstant Gidroliza i Konstant Kompleksoobrazovaniya Zr4+ s Nitrat- i Khlor-ionami Metodami Ekstraktsii.)

PERIODICAL: Zhurnal Neorganicheskoy Khimii, 1957, Vol.II, Nr.3, pp. 611-622. (USSR)

ABSTRACT: In this investigation extraction with tributylphosphate from nitric acid solutions with an ionic strength of four was used for studying complex-formation of zirconium The metal was extracted in the with the nitrate ion. form of the complex Zr(NO3)4.tributylphosphate. reaction constants of complex-formation between zirconium nitrate and chloride and tributylphosphate were found to be (0.65±0.1) and (2±0.2).104, respectively, the value for reaction constant for complex-formation with tenoyltrifluoroacetene being (1.2±0.2).109. Complex-formation trifluoroacetene being (1.2±0.2).109. Zr(N03) 3 and constants for Zr(N03)3+, Zr(N03)22, Zr(N03) 3 and Zr(N03)4 were found to be equal to 2.2±0.05, 1.3±0.05

SOLOVKIN, A.S.

78-1-40/43

AUTHORS:

Shilin, I. V. Povitskiy, N. S., Solovkin, A. S.,

Extraction of Perchloric Acid With Tributyl Phosphate (TBPh)

TITLE:

(Ekstraktsiya khlornoy kişloty tributilfosfatom)

PERIODICAL:

Zhurnal Neorganicheskoy Khimii, 1958, Vol. 3, Nr 1, pp.222-224

(USSR)

ABSTRACT

The second author proved (reference 1) that with zirconium--extraction from perchloric acid containing solutions HClO passes over in analyzable quantities. Their complex-formation with TBPh was worth investigating in view of their application for the maintenance of a constant ionic density. Perchloric acid was extracted from water by TBPh solution in benzene or petroleum. The phases were equal with all tests (23 ml). The equilibrium was attained within 10 to 15 minutes. In tests on the distribution of perchloric acid between water and 3,67 mol TBPh it was found that with increasing concentration of HC10, in the initial solution the quantity passing over into TBPh increases also (table 1). With the mixture of the phases

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78-1-40/43

Extraction of Perchloric Acid With Tributyl Phosphate (TBPh)

an exothermic reaction takes place which is most intensely in the case of stronger acid solutions (table 1, best 6). It was tried to compute the equilibrium constant of the reaction of complex-formation of HClO, with TBPh (K_1) , from the obtained results. It is shown in table 1 that K_1 is variable within vast limits. This is apparently achieved by the ionic density of the solution which fluctuates under the influence of the changes of concentration of the acid. With a constant ionic density K_1 remains sufficiently constant $(6.7 \pm 0.5) \cdot 10^{-2}$. In this case the acuilibrium constant of the reaction of case the equilibrium constant of the reaction of complex formation of HNO₃ with TBPh(K_2) amounts to 0,16 \pm 0,01 (table 2). The K2-value is neither changed by using solutions which are diluted by benzene or petroleum, if the ionic density of the solution is preserved (\sim 3) (table 3, 4). The value of K_2 increases with diluting the TBPh-solutions up to 0,22 ± 0,62 (little different from references 3 to 6). It is noticeable that the TBPh-dilution with petroleum lead to the formation of a third phase after the extraction if the HNO3-content in the initial solution was small, compared with that of HC10 (table 4, West 1). The light organic phase (d²⁵⁰ = 0,750) is formed of almost pure petroleum with only a small admixture

Card 2/3

78-140/43

Extraction of Perchloric Acid With Tributyl Phosphate (TBPh)

of TBPh and contains no HClO. The heavy organic phase (d²⁵ = 1,001) is a solution of HClO. TBPh in TBPh. The third phase appears also with the mixtures of 0,49 n HClO, with 0,25 mol TBPh in petroleum. The heavy organic phase dissolves in petroleum after HClO, was re-extracted in water. It is not form. leum after HClO, was re-extracted in water. It is not formed with the TBPh-dilution with benzene. There are 4 tables, and 7 references, 4 of which are Slavic.

SUBMITTED:

May 22, 1957

: ALGALIAVA

Library of Congress

Card 3/3

SOLOVKIN, A.S.

78-1-41/43

AUTHORS:

Shevchenko, V. B., Shilin, I. "., Solovkin, A. S.

TITLE:

Extraction of Perchloric Acid and Uranyl Perchlorate With Tributyl Phosphate (Ekstraktsiya khlornoy kisloty i perkhlorata

uranila tributilfosfatom)

PERIODICAL:

Zhurnal Neorganicheskoy Khimii, 1958, Vol. 3, Nr 1, pp.225-230

(USSR)

ABSTRACT:

It is generally maintained in literature that the perchlorate--ion has no inclination to form complexes with the elements of the actinide series (reference 1). Perchloric acid and its soluble salts are therefore often used for the maintenance of the ionic density when the investigation of the mature of the compounds existing in aqueous solutions is required (e.g. extraction in tributyl phosphate). The transition of HC10, into the organic phase is usually neglected. The authors proved however (reference 4) that the value of the equilibrium-constant of the reaction of HClO, with TBPh (K.) can be compared with that of HNO, with TBPh. The investigation of

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78-1-41/43 Extraction of Perchloric Acid and Uranyl Perchlorate With Tributyl Phosphate the distribution of HClO between its aqueous solution and the TBPh is continued in the present paper. Experimental part. The methods for HC10, were previously described (reference 4). The tests were carried out with a constant ionic strength of the aqueous phase (0,1 to 3). The solutions were produced in such a way that - after the extraction of the uranyl perchlorate - the HClO -content in the aqueous phase is approximately constant and equal to the prescribed ionic density. The TBPh-concentration being in equilibrium in the organic phase (TBPh) was determined by taking account of the changes of the phase-volumina. Since a number of conditions of the uranium-extraction from perchloric acid solutions which were not described previously, was clarified meanwhile, the original aim of the paper was modified and the tests were continued for clarifying the following questions: 1) The influence of μ on $K_{pUO_2}(ClO_4)_2$ between water and TBPh. 2) Influence of the concentration of the same compound on TBPh with constant ionic density of the aqueous phase. 3) Influence of the salting out on KpUO2(ClO4) (LiClO4 and NaClO4). 4) Influence of the diluters which are added to TBPh on

card 2/4

78-1-41/43

Extraction of Perchloric Acid and Uranyl Perchlorate With Tributyl Phosphate

 $K_{pUO_2}(ClO_4)$. The test results are given in tables 1 to 3. They show above all that U(VL) is extracted to a considerable extent from perchloric acid solutions by TBPh though the values of the coefficients of distribution here, with equal other test conditions were much smaller than with an extraction from nitric acid solutions. Nevertheless uranium passes completely over into the organic phase (table 2) at high TBPh--concentrations in the organic phase, or when a salting out--salt is present in the aqueous phase (e.g. NaClO,) after a single shaking. It became evident by further tests that the graphical method of the determination of the composition of the complex compound extracted by TBPh cannot be applied in the case of perchloric acid solutions. Hence, it does not follow that the mechanism of extraction of ${
m HC10}_A$ and of UO2(ClO1)2 differs substantially from that of the nitric acid solutions by TBPh. It can apparently be expected that HC10, and uranyl perchlorate pass over into the organic phase which contains TBPh, as solvents HClO₄-yTBPh and UO₂(ClO₄)₂-xTBPh. There are 1 figure, 3 tables, and 12 references,

Card 3/4

78-1-41/43 Extraction of Perchloric Acid and Uranyl Perchlorate With Tributyl Phosphate

8 of which are Slavic.

SUBMITTED: May 22, 1957

AVAILABLE: Library of Congress

Card 4/4

SOV/78-3-5-38/48

AUTHORS:

Shevchenko. V. B., Solovkin, A. S., Shilin, I. V.

TITLE:

About the Extraction of the Uranyl Perchlorate by Means of Tributyl Phosphate (K ekstraktsii perkhlorata uranila tri-

butilfosfatom)

PERIODICAL:

Zhurnal neorganichesko/ khimii, 1958, Vol. 3, Nr. 8, pp. 1965-

1967 (USSR)

ABSTRACT:

The distribution of uranyl perchlorate between water and a solution of 1,2 mol. of tributyl phosphate (TBP) in CCl₄ was

studied as a function of the concentration of the salt in aqueous solution (Table 1). It was shown that $K_{PuO_2}(ClO_4)_2$

increases with a rise of the urangl concentration in the solution. When uranyl perchlorate is extracted by means of tributyl phosphate an increase of the water contents occurs in the organic phase. In virtue of the experiments it is assumed that uranyl perchlorate is extracted by tributyl phosphate in that of the following compound: UO2(ClO4)2.2H2O.2TBP.

Card 1/2

There are 1 figure, 1 table, and 4 references, 2 of which are

\$507/78-3-8-38/48 boost the Extraction of the Uranyl Perchlorate by Weans of Tributyl Phosphate

Soviet.

SUBMITTED: February 28, 1958

Card 2/2

CIA-RDP86-00513R001652310007-6" APPROVED FOR RELEASE: 08/25/2000

Shevchenko, V. B., Povitskiy, N. S., Solovkin, A. S., Shilis, T. V. Lunichking, K. P. Tavetkova, 7. N. SOV/78-3-9-16/38 I. V., Lunichkina, K. P., Tavetkova, Z. N. The Extraction of Mitric Acid With Tributyl Phosphate (Ekstraktsiya azotnoy kisloty 7 tributilfosfat) Zhurnal neorganicheskoy khimii, 1958, Vol 3, Nr 9, pp 2:09-2112 AUTHORS: The distribution of nitric soid between the squeous and the The distribution of nitric acid between the aqueous and the organic phase containing tributyl phosphate in dependence on the acueous phase and the nature of the actuant of tributyl TITLE: organic phase containing tributy phosphate in dependence on the aqueous phase and the nature of the solvent of tributy! the aqueous phase and the nature of the solvent of tributyl phosphate was investigated. From the results may be concluded that K considerably depends on the nature of the solvents of that PERIODICAL: (ussr) that Kp considerably depends on the nature of the solvents of tributyl phosphate. The influence of the nature of the solvents tributyl phosphate. The initiance of the nature of this solvent on the distribution of nitric acid between water and tributyl shown that were investigated in the case of an ionic strength ABSTRACT: on the distribution of nitric acid between water and tributy phosphate was investigated in the case of an ionic strength of the colution of 1 0.5 and 7, who may improve the colution of 1 0.5 and 7, who may improve the colution of 1 0.5 and 7. phosphate was investigated in the case or an long strength of the solution of 1, 0,5 and 3. The maximum value of Kp in nitric acid solution with the ionic strength of 3 is obtained nitric acid solution with the lonic strength of the first the case of the change of the solution with the case of the change of the solution the case of the change of the solution the case of the change of the solution the case of the solution that the case of the case o change of K by the nature of the solvent in the case of an Card 1/2

Card

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APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R00165231000

SEVCENKO, V.B. [Shevchenko, V.B.]; POVICKIJ, N.S. [Povitskiy, N.S.]; SOLOVKIN, A.S.; KORTUS, J. [translator]

Some peculiarities in processing the burnt out fuel elements from the first atomic power plant in the Soviet Union. Jaderna energie 4 no.11:342-344 N '58.

2100

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PHASE I BOOK EXPLOITATION

80V/5084

International Conference on the Peacerul Uses of Atomic Energy. 2d, Geneva, 1958.

Doklady sovetskikh uchenykh. [t.4] Khimiya radioelementov i radiatsionnykh prevrashcheniy (Reports of Soviet Scientists. v. 4.: Chemistry of Radioelements and Radiation Transformations) Moscow, Atomizdat, 1959. 323 p. 8,000 copies printed. (Series: Its: Trudy)

Ed. (Title page): A. P. Vinogradov, Academician; Ed.: V. I. Labaznov; Tech. Ed.: Ye. I. Mazel:

PURPOSE: This collection of articles is intended for scientists and engineers interested in the applications of radioactive materials in science and industry.

COVERAGE: The book contains 26 separate studies concerning various aspects of the chemistry of certain radioactive elements and the processes of radiation effect on matter. These reports discuss present-day methods of reprocessing irradiated nuclear fuel, research in the chemistry of mercury, thorium, irradiated nuclear fuel, research in the chemistry of mercury, and bury-uranium, plutonium, and americium, problems related to the sorption and bury-card-1/9

Reports of Soviet (Cont.)

80V/5084

ing of radioactive wastes, the radiolysis of aqueous solutions and of organic compounds, the mechanism of polymer chain grafting, and the effect of radiation on natural and synthetic rubbers. V. N. Prusakov edited the present volume. Most of the reports are accompanied by references. Contributors to individual investigations are mentioned in annotations to the Table of Contents.

TABLE OF CONTENTS:

Vinogradov, A. P. Meteorites and the Earth's Crust (The Geochemistry of Isotopes) (Report No. 2523)

5

Shevchenko, V. B., N. S. Povitskiy, and A. S. Solovkin. Some Special Problems in the Reprocessing of Irradiated Heat-Producing Blements of the First Atomic Electric Power Plant of the USSR (Report No. 2182)

[The following personalities are mentioned as having taken part in this investigation: E. M. Indikov, K. P. Lunichkina, Ye. V. Ukraintsev, Z. N. Tsvetkova, and V. V. Chubukov.]

Vdovenko, V. M., and M. P. Koval'skaya. Separation of Uranium and Plutonium From Fission Products by Extraction With a Mixture of Dibutyl Ether and Carbon Tetrachloride (Report No. 2216)

34

SHEVCHENKO, V.B.; SOLOVKIN, A.S.; SHILIN, I.V.; KIRILLOV, L.M.; HODIOHOV, A.V.; BALANDINA, V.V.

Effect of the nature of the diluent on the extraction of uranyl nitrate by tributylphosphate. Radiokhimia 1 no.3:257-269 (MIRA 12:10)

307/78-4-6-40/44 Solovkin, A. S., Povitskiy, N. S., Shilin, I. V. 5(4) AUTHORS: On the Influence of the Nitrates of Barium, Nickel, Cobalt, and Copper on the Extraction of Nitric Acid in Tributyl TITLE: Phosphate (TBP) (O vliyanii nitratov bariya, nikelya, kobal'ta i medi na ekstraktsiyu azotnoy kisloty v tributilfosfat (TBP)) Zhurnal neorganicheskoy khimii, 1959, Vol 4, Nr 6, PERIODICAL: pp 1454 - 1456 (USSR) The distribution of nitric acid between the aqueous and inorganic phase of the solution of TBP in kerosene was investi-ABSTRACT: gated in the presence of barium-, nickel-, cobalt-, and copper nitrates in the case of an ionic strength of the aqueous phase of 1 and 1.5. The results are summarized in a table and given in figures 1 and 2. The nitric acid extraction in the organic phase increases with the rise of the ionic strength in the solution. A low distribution coefficient of the nitric acid is obtained by the use of barium nitrate as salting-out compound. The same effect is obtained by cobalt-, nickel-, and copper nitrates as salting-out compounds in the case of the nitric Card 1/2

On the Influence of the Nitrates of Barium, Nickel, SOV/78-4-6-40/44 Cobalt, and Copper on the Extraction of Nitric Acid in Tributyl Phosphate (TBP)

acid extraction in the tributyl phosphate- and kerosene phase. The extraction of the nitric acid in the organic phase TBP-kerosene in the case of the use of salting-out compounds does not go under the ideal distribution law. Yu. F. Zhdanov and Z. A. Smyk assisted in the experiments. There are 2 figures, 1 table, and 4 references, 1 of which is Soviet.

SUBMITTED: March 25, 1958

Card 2/2

05894

5(2) AUTHOR:

Solovkin, A. S.

SOV/78-4-11-47/50

TITLE:

Zirconium Iodates Precipitated From Solutions and Containing Lass

Than One Chlorine Atom to One Zirconium Atom

PERIODICAL

Zhurnal neorganicheskoy khimii, 1959, Vol 4, Nr 11,

pp 2642-2644 (USSR)

ABSTRACT:

Publications do not contain any data on iodates containing less than one iodate ion to one zirconium atom. The data on the composition of zirconium sulphates, -chlorides and -nitrates (Ref 1), however, suggest that the sirconium iodates form such precipitations. The preparation and analysis of sirconium-iodate precipitations are described in references 2, 3. The present paper reports on precipitation of iodates from sirconium-chloride solutions containing 0.92 and 0.35 chlorine atoms to one Zr-atom. Such solutions can be obtained by repeated evaporation of ZrCl2-solutions while hydrochloric acid volatilizes. These

solutions poor in chlorine are stable for months as had also been stated by I. Ya. Bashilov (Ref 8). The Zr-iodates were precipitated by means of KJO, from solutions containing 0.105 and 0.21 mols of

Card 1/2

Zr. In the solutions with a ratio of Cl : Zr = 0.92 and 0.35,

Zirconium Iodates Precipitated From Solutions and SOV/78-4-11-47/50 Containing Less Than One Chlorine Atom to One Zirconium Atom

the equilibrium was established after three days (Table 1). Table 2 gives an analysis of air-dry precipitations. The ratio of JO_3 : Zr depended on the concentration of the KJO₃ used for precipitation, on the concentration of Zr, and on the ratio of Cl : Zr. The precipitates had no constant composition. Under the conditions described, Zr evidently forms polymeric ions representing an uninterrupted series with the general formula $Zr_n(OH)_m^{+4n-m}$. The average charge of these ions varies in dependence on the Zr- and Cl-concentration within wide limits but is mostly smaller than 1. In solutions with a ratio of Cl : Zr = 0.35, Zr occurs as a hydroxide, in agreement with references 11, 12. There are 2 tables and 12 references, 5 of which are Soviet.

SUBMITTED:

November 4, 1958

Card 2/2

thenish for ext. otion it decreas. The extraction of the mitter asia and Granti altrate by dissonnal matrix, mosquent con, 1960, 12 pp horow dhemico bearnological institute imeni b.1. he mod yet)

(KL, 39-60, 114)

SOLOVKIN, A.S.

[Extraction of electrolytes from nitrate solutions with neutral organophosphorus solvents. Calculation of distribution curves] Ekstraktsiia elektrolitov neitral'nym fosfororganicheskimi rastvoriteliami iz azotnokislykh rastvorov. Raschet krivykh raspredeleniia. Roskva, Glav. upr. po ispol'zovaniiu atomnoi energii, 1960. 23 p.

(NIRA 17:1)

(Nitrates) (Extraction (Chemistry)) (Solvents)

CIA-RDP86-00513R001652310007-6"

APPROVED FOR RELEASE: 08/25/2000

SHEVCHENKO, V.B.; SOLOVKIN, A.S.; SHILIN, I.V.; KIRILLOV, L.M.; RODIONOV, A.V.; BALANDINA, V.V.

Effect of hydrocarbons of the aliphatic and aromatic series on the extraction of U(VI), Pu(IV), Zr(IV), and Ce(III) with tri-n-butyl-phosphate from nitric acid solutions. Radiokhimiia 2 no.3:281-290 (MIRA 13:10)

(Hydrocarbons) (Extraction (Chemistry))
(Butyl phosphate)

5.2620

68110 80V/78-5-1-13/45

5 (2) AUTHOR:

Solovkin, A. S.

TITLE:

On the Perrocyanides of Zirconium

Zhurnal neorganicheskoy khimii, 1960, Vol 5, Nr 1, pp 73 - 79

PERIODICAL:

(USSR)

ABSTRACT:

The author investigated the reaction of zirconium nitrate and zirconium chloride with potassium ferrocyanide by the solubility method and by the measurement of light adsorption. Experimental data (Table 1, Fig 1) reveal that the beginning of the precipitate formation depends on the hydrogen ion concentration, and precipitate with varying composition separate (Tables 2,3). Pure Zr[Fe(CN)6].6H20 was obtained from acid so-

lutions only. The light extinction curve of the solutions (Fig 2) does not point to any compound with constant composition. The forming precipitates are initially white, but turn yellow to green under the action of light in consequence of the formation of free iron ions, which are co-precipitated with the zirconium ferrocyanides. These results confirm the already

Card 1/2

On the Ferrocyanides of Zirconium

68110 80V/78-5-1-13/45

known tendency of Zr to hydrolysis and to the formation of difficultly soluble compounds which are dependent on the hydrogen ion concentration as to their composition. There are 2 figures, 3 tables, and 22 references, 9 of which are Soviet.

 \checkmark

SUBMITTED:

August 18, 1958

Card 2/2

Extraction of nitric acid with the discomplester of methylphosphinic acid. Zhur.neorg.khim. 5 no.6:1345-1357 Je '60. (MIRA 13:7) (Nitric acid) (Extraction (Chemistry)) (Phosphinic acid)

Extraction of sulfuric acid with discompl methylphosphonate. Zhur. neorg. khim. 5 no.8:1857-1860 Ag '60. (MIRA 13:9) (Sulfuric acid) (Phosphonic acid)

SOLOVKIN, A.S.; KONAREV, M.I.; ADAYEV, D.P.

Extraction of uranyl nitrate with dissonaryl methylphosphonate. Zhurneorg. khim. 5 no.8:1861-1867 Ag '60. (MIRA 13:9)

(Uranyl nitrate) (Phosphonic acid)

s/078/60/005/009/015/017 BO15/BO64

Solovkin, A. S., Povitskiy, N. S., Lunichkina, K. P.

AUTHORS: Formation of the Third Phase in the System UO2(NO3)2 - HNO3 - H2O - Tri-n-butyl Phosphate - "Kerosene" TITLE:

Zhurnal neorganicheskoy khimii, 1960, Vol. 5, No. 9,

PERIODICAL: pp. 2115-2118

TEXT: The formation of a third phase of the system mentioned in the title was investigated. The uranium content was gravimetrically determined, and the tributyl phosphate content in the organic phase (after separation) was colorimetrically measured with a C \$\tilde{D}\$-2P(SF-2) spectrophotometer. All experiments were conducted at room temperature. It was found that the formation of a third phase was independent of the concentration of uranyl nitrate (at sufficiently high acidity) (Table 1). A decrease of acidity below a certain point leads, also in the presence of large amounts of uranyl nitrate, to the vanishing of the third phase (Table 2). Absorption spectra (recorded by L. V. Lipis) showed that uranium appeared in the organic phase as neutral, non-ionized molecules UO, (NO,) solvated with

Card 1/2

APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R001652310007-6"

SOLOVKIN, A.S.

Effect of desalting agents on the distribution of uranyl nitrate between the aqueous solution and discomyl methylphosphinate.

Zhur.neorg.khim. 5 no.9:2119-2131 S 160. (MIRA 13:11) (Uranyl nitrate) (Phosphinic acid)

SHEVCHENKO, V.B.; REMARD, E.V.; SOLOVKIN, A.S.

Extraction of trihydorxyglutaric acid into tri-n-butyl phosphate.

Zhur. neorg. khim. 5 no.10:2350-2353 0 '60. (MIRA 13:10)

(Glutaric acid) (Butyl phosphate)

SHEVCHENKO, V. B.; SOLOVKIN, A. S.; KIRILLOV, L. M.; IVANTSOV, A. I.

Effect of saturated monoatomic alcohols and ethers on the extraction of vit, Pury, Zr W, Ce W, and Now with trinabutyl phosphate from nitric acid solutions. Radiokhimia 3 no.4:35-6 161.

(Extraction(Chemistry))

(Solvents)

s/078/61/006/002/015/017 **B017/B054**

AUTHORS:

Tavetkova, Z. N., Solovkin, A. S., Povitskiy, N. S.,

Davydov, I. P.

TITLE:

Mechanism of Extraction of Zirconium Nitrate by Means of

Tri-n-butyl Phosphate From High-acidity Solutions

PERIODICAL:

Zhurnal neorganicheskoy khimii, 1961, Vol. 6, No. 2,

pp. 489 - 492

TEXT: The distribution of many heavy metals between nitric acid solutions and tri-n-butyl phosphate (TBP) takes place according to the equation:

 $M^{X+} + xNO_3^- + nTBP \implies M(NO_3)_xTBP$, $M^{X+} = UO_2^{2+}, NpO_2^{2+}, PuO_2^{2+}, NpO_2^{4+}, PuO_3^{4+}$

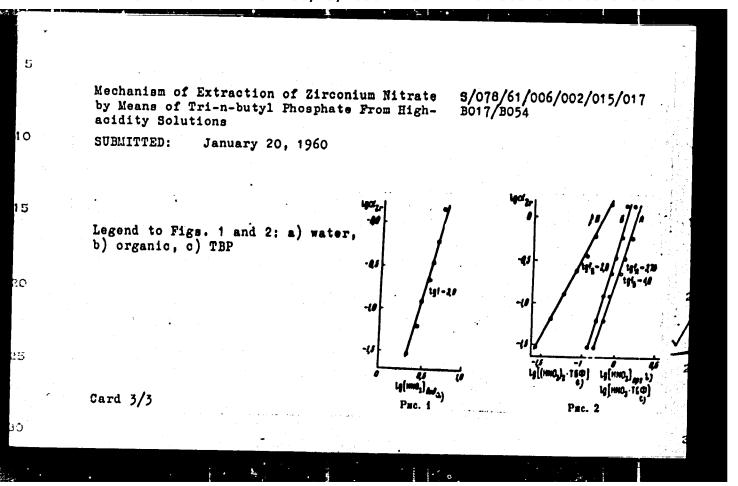
The extraction of Am3+, Th4+, Cr4+ and the rare earths from highly concentrated nitric acid solutions does not take place according to the above equation. The extraction coefficient grows with rising acidity of

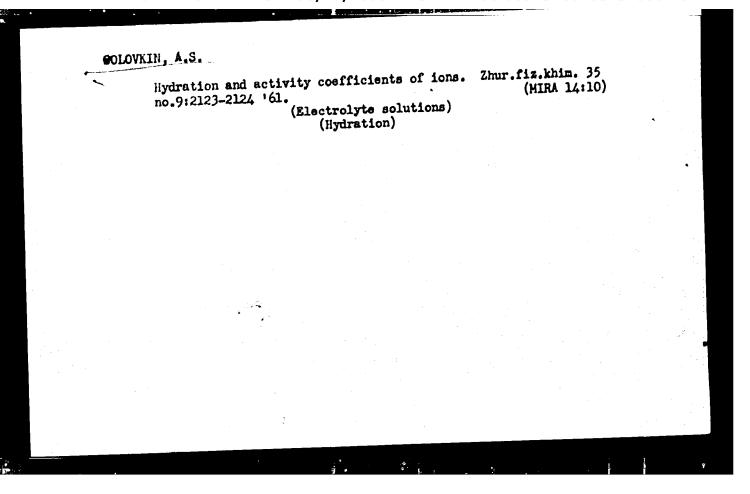
Card 1/3

Mechanism of Extraction of Zirconium Nitrate by Means of Tri-n-butyl Phosphate From High-acidity Solutions S/078/61/006/002/015/017 B017/B054

the solution. To explain the extraction mechanism of zirconium nitrate with tributyl phosphate from high-acidity solutions, the authors studied the effect of the hydrogen ion concentration on the extraction coefficient. The extractions were conducted by the method described by A. S. Solovkin The extractions were conducted by the method described by A. S. Solovkin (Ref. 3). Carbon tetrachloride was used as solvent for tributyl phosphate. The zirconium concentrations were determined with the aid of the phate. The zirconium concentrations were determined with the aid of the radioactive isotope $2r^{95}$. Results are given in Figs. 1 and 2. The authors discussed the possibilities of increasing α_{Zr} by changing the hydrogen ion concentrations. It is assumed that the extraction of $2r(NO_3)_4$ with the organic phase occurs as $2r(NO_3)_4 \cdot 4(HNO_3) \cdot TBP$ and $2r(NO_3)_4 \cdot 2(HNO_3) \cdot TBP$. Fig. 2 shows α_{Zr} as a function of concentration. The presence of zirconium acido complexes in the aqueous phase hardly influences the extraction coefficient. There are 2 figures, 2 tables, and 8 references: 6 Soviet and 2 US.

Card 2/3





SOLOVKIN, A.S.; TSVETKOVA, Z.M.; POVITSKIY, N.S.

Study of complex formation of zirconium with and 8-aminopropionic acids in nitric acid solutions by a method involving extraction.

Zhur.neorg.khim. 7 no.4:937-939 Ap 162. (MIRA 15:4)

(Zirconium compounds) (Propionic acid)

5/074/62/031/011/001/001 A057/A126

AUTHORS:

Solovkin, A.S., Tsvetkova, Z.N.

TITLE:

The chemistry of aqueous solutions of zirconium salts (Does there

exist a zirconyl ion?)

PERIODICAL: Uspekhi khimli, v. 31, no. 11, 1962, 1,394 - 1,416 A systematic survey of literature data referring to the chemistry of zirconium in aqueous solutions is given. In a subsequent discussion of the properties of aqueous and acidic solutions of zirconium salts (generally chlorides and nitrates) it is shown that the theory assuming the existence of a zircony; ion is erroneous. The existence of zirconium trichloride cannot be explained, for instance, by this theory. The inaccuracy of the assumption of zirconyl and dizirconyl ions can be proved by the results given in several publications, by X-ray investigations of crystalline zirconium chloride and bromide 'samples and their solutions. Processes occurring during aging, or during heating of zirconium-salt solutions are explained by the authors according to the theory of Tomas cited by L. Pokras in J. Chem. Educ., v. 33, nos. 4, 5, 6 (1956),

Card 1/3

The chemistry of aqueous solutions of

S/074/62/031/011/001/001 A057/A126

i.e., by hydrolysis and formation of hydroxyl, and/or oxide bridges (with simultaneous proton evolution) in the first stage of condensation ("olation"), and further dissociation (accompanied by proton evolution) ("exolation"). In solutions containing 1 - 2M HClO4, at 25°C and a zirconium concentration of about 10^{-4} to 0.024 the olation process occurs stepwise ending with the formation of the trimer $[2r_3(OH)_4]^{d+}$ and tetramer $[2r_4(OH)_3]^{8+}$. The latter is the prevailing form of zirconium in its aqueous dichloride solutions at a 2M concentration. A transformation to the exp-forms occurs in the absence of strong complexing agents. In solutions containing strong complexing agents there exists, apparently, only the monomolecular form of zirconium. The process does not end with the formation of the trimer and tetramer in weakly acidic solutions, but occurs continuously until polymers with a high molecular weight are forming. A change of the charge of the complex ions may occur in hydrochloric, nitric acid solutions, or after addition of neutral salts with the same anion. An inversion of the sign of the charge happens often in hydrosols of zirconium oxide, thus resulting in an "identification" of nonexisting zirconium complexes. The specific chemical behavior of zirconium and of processes which occur in solutions and in the solid phase have to be also considered in the preparative chemistry of

Card 2/3

S/074/62/031/011/001/001 A057/A126

The chemistry of aqueous solutions of

mirconium compounds. Hence, the authenticity of analytical formulas for so many mirconium compounds with unusual composition (especially sulfates) have to be considered cautiously. Several data from articles published after subject paper was concluded, are presented as an addition. These data are in good agreement with the conclusions presented in the present paper.

Card 3/3

SOLOVKIN	Extraction of electrolytes from nitric acid solutions by neutral arrangements of the solution of the stribution curves. Organosphosphorus solvents. Calculation of the stribution curves. (MIRA 15:9) (Electrolytes) (Extraction (Chemistry)) (Phosphorus organic compounds)							
	<u>.</u>						· .	

LUNICHKINA, K.P.; POVITSKIY, N.S.; SOLOVKIN, A.S.

Three—phase demixing in the system UO₂(NO₃)₃ HNO₃ - H₂O - diisoumyl ester of methylphosphinic acid - *kerosine* in the presence of oxalic acid. Zhur. neorg. khim. 7 no.8: 2019-2020 Ag ¹62. (MIRA 16:6)

(Uranyl nitrate) (Systems(Chemistry))

Chemistry of the aqueous solutions of zirconium salts (does a zirconyl ion exist?). Usp.khim. 31 no.11:1394-1416 N '62.

(Zirconium salts)

(Zirconyl ion)

SOLOVKIN, A.S.

Determination of the surface density values of the arrangement of water molecules in the first coordination layer of ions from data on the activity coefficients. Zhur.fiz.khim. 36 no.10:2219-2222 (MIRA 17:4)

INDIKOV, E.M.; EDLOVKIN, A.S.; TETERIN, E.G.; SHESTERIYOV, N.N.

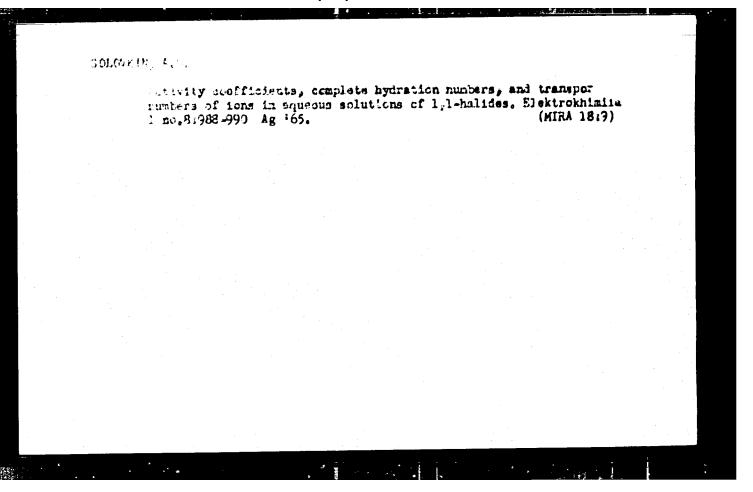
Demixing in the system HC1 - H20 - tri-n-butyl phosphate - diluent. Zhur.neorg.khim. 8 no.912187-2189 S *63. (MIRA 16:10)

SOLOVKIN, A.S.

Determination of the ion activity coefficients in electrolyte mixtures. Zhur.fiz.khim. 37 no.2:447-449 P *63. (MIPA 16.5) (Activity coefficients) (Electrolyte solutions)

Calculation of the extraction constants of strong and weak electrolytes. Zhur. neorg. khim. 9 no.3:746-753 Mr 164.

(MIRA 17:3)



INDIECV, E.M.; 10% V, V.1.; SOLCHEIN, A.C.; TETERIN, E.G.; LHESTERIC V, N.H.

Demixim: In the system HClO₂ - H₂O - tries-butyl phosphate - diluent. Zhur.neorg.khim. 10 no.11:2569-2571 N 165.

(MIRA 18:12)

1. Submitted December 16, 1964.

INDIROV, E.M.; SGIOVKIN, A.S.; TEXERIN, E.M.: SHEWITE HERV, M.E.

Pemixing in the system sulfuric acid-water-tri- %-butyl phosphate-diluent. Thur. maorg. khim. 9 no.12:2786-2788

1 '64.

(HIFA 18:2)

ZAYDEL', Khristina Eduardovna, starshaya prepodavatel'nitsa NEGNEVITSKIY, Iosif Borisovich, kand.tekhn.nauk, dotsent SOLOVKIK, Eduard Leonidovich, aspirant

Device for testing the cores of self-saturating magnetic amplifers. Izv. vys. ucheb. zav.; elektromekh. 4 no.3:146-156 '61. (MIRA 14:7)

1. Kafedra obshchey elektrotekhniki Moskvskogo energeticheskogo instituta (for Zaydel', Solovkin). 2. Kafedra teoreticheskikh osnov elektrotekhniki Moskvskogo energeticheskogo instituta (for Negnevitskiy).

(Magnetic amplifiers)
(Cores(Electricity)—Testing)

S/103/63/024/002/014/020 D201/D308

AUTHORS:

Zaydel', Kh.E., Negnevitskiy, I.B., Solovkin and Tsareva, M.K. (Moscow)

Dynamic demagnetization curves of cores of self-TITLE:

saturating magnetic amplifiers

Avtomatika i telemekhanika, v. 24, no. 2, 1963, PERIODICAL:

248-254

The authors show that the dynamic demagnetization curve, as used in the Roberts method of control of magnetic amplifiers, makes it possible to calculate, with an accuracy sufficient for practical purposes, the input-output characteristic of a selfsaturating magnetic amplifier and may be thus used for the amplifier design, control and core selection. The principle of the dynamic demagnetization curves has been used at the Moskovskiy energeticles-kiy institut (Moscow Institute of Power Engineering) in the design of appoint 1 aminocont for the application and toroidal comes of of special equipment for the analysis of tape and toroidal cores of The results obtained various dimensions and at various frequencies.

Card 1/2

