PETROV, E.A.; NIRANT'YEV, E.I.; GOL'ISOVA, R.G. Trans-estarification of diethyl phosphite with ethylene glycol. Zhur, ob. khim. 33 no.5:1485-1488 My '63. (MIRA 16:6) (\$thyl phosphites) (Esterification) (Ethylene glycol)

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ACCESSION NR: AT403	14002
ACCESSION NK: AI403	HUUL

8/0000/63/000/000/0170/0174

AUTHOR: Petrov, K. A.; Nifant'yev, E. Ya.; Gol'tsova, R. G.

TITLE: Phosphorus-containing polymers. X. Synthesis of polyphosphite-based polyphosphonates

SOURCE: Gaterotsepny*ya vy*sokomolekulyarny*ya soyadineniya (Heterochain macromolecular compounds); sbornik statey. Moscow, Izd-vo "Nauka," 1963, 170-174

TOPIC TAGS: polymerization, phosphorus containing polymer, polyphosphite, polyphosphonate

ABSTRACT: As a further step in the authors' polymer studies data are given on the synthesis of polyalkylalkylenephosphonates, poly-d-hydroxyalkylalkylenephosphonates and poly-d-aminoalkylalkylenephosphonates by the Michaelis and Becker method using acid polyalkylenephosphites. The following polymers were prepared, identified and described: polybenzylhexamethylenephosphonate, poly-d hydroxybensylhexamethylenephosphate, poly-d-dibutylaminobensylhexamethyl enephosphonate, polydiethylaminomethylhexamethylenephosphonate, poly-d-propylaminoisopropylhexamethylenephosphonate, poly-d-propylaminoisopropylhexamethylenephosphonate, poly-d-propylaminoisopropylhexamethylenephosphonate, poly-d-sphonate, and a copolymer of Card 1/2

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lisuifide. The preparative procession of the process of the process of the property of the pro	lenephosphonate and di-(hexamethyler condure consists essentially of reac W0-135C; the yield varied from 48 to Orig. art, has: 4 chemical equation	ting the 98% for
SSOCIATION: None		4
UBMITTED: 13Nov62	DATE AQ: 30Apr64	ENCL: 00
UB CODE: OC	NO REF SOV: 009	OTHER: 004
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CIA-RDP86-00513R000515830005-4



GOL'TSOVA, T.G., (Alma-Ata)

Udwparative effectiveness of intravenous, intra-arterial, and intracarotid infusion of blood in acute hemorrhage and shock. Pat.fiziol. i eksp. terap. 2 no.3:44 My-Je '58 (NIRA 12:7)

1. Is kafedry patologicheskoy fisiologii (zav. - zaslyshennyy deyatel'nauki prof. O.S. Glosman) Kasakhskogo meditsinskogo instituta. (BLOOD--TRANSFUSION) (HIMOSRHAGE) (SHOCK)

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GOL*TSOVA, T. G., Cand Med Sci (diss) -- "The comparative effectiveness of intravencus, intraarterial, and intracarotid transfusion of blood in acute blood loss and shock". Alma-Ata, 1959, 10 pp (Kazakh State Med Inst), 300 copies (KL, No 9, 1960, 128)

"APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000515830005-4

GLOZMAN, O.B.; GOL'TBOVA, T.G.; ZIKKYEVA, A.I.; LONSHCHAKOVA, A.S. (Alma-Ata) Effect of hypothermia on the development of experimental nephro-(MIRA 14:6) calcinosis in rats. Arkh.pat. 23 no.4:37-42 61. 1. In kafedry patologicheskoy fiziologii (zav. - prof. 0.S. Glosman) i kafedry patologicheskoy anatomii (zav. - prof. P.P. Ochkur) Kasakhakogo meditsinakogo instituta. (HYPOTHERMIA) (KIDNEYS---DISEASES) (CALCIUM METABOLISM) Ŧ and it.

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	Card:		1/1		
			*I.A., Kokoreva V.B.		1./
			and reactivity are altered ". "a. Boyarekaya		
			anthrex vaccines are maintained, but the viability or		
			begin frozen once or twice at -42 ⁵ -44" for three days with subsequent thawing at 18°. It was established		
	AUSUICU	•	properties, reactivity and visbility of spores of 20		
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	Onto Pish.				
	Title	:	Study of the Viability of Anthraz Spores Exposed to Freezing		
	Author Institut.	:			
	Abs. Jour	:	Her 2bur-Blol., No 23, 1958, No 105024		
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	Country	:	TISBR		
		Gategory Abs. Jour Author Institut. Title Orig Pub. Abstract	Gategory : Abs. Jour : Author : Institut. : Title : Orig Pub. : Abstract :	 Gountry : USER Gategory : Microbiology. Microbes Pathogenic For Van and Animals. Merchic Sacill. Abs. Jour : Hef Zhur-Biol., No 25, 1958, No 104024 Author : Gorloy, B. V.; Zarevich, T.V.; Gol'teova, T.I.; Mokhryakors Institut. : Title : Study of the Viability of Anthrax Spores Exposed to Freezing Orig Pub. : Inform. byul. biol. prom-sti. 1057. No 2, 3-5 Abstract : The physical, cultural-morphological, virulent properties, reactivity and viebility of spores of 26 different sories of anthrax vaccines were studied after begin frozen once or twice at -420-44° for three days with subsequent thaving at 18°. It was established that after freezing the physical properties of the anthrax vaccines are maintained, but the viability of the spores is reduced considerably. The virulence and reactivity are alteredW. Ya. Boyarskaya 	 Gountry : USER Gategory : Morobiology. Microbes Pathogenic For Man and Animals. Acrobio Sacult. Abs. Jour : Ref Zhur-Biol., No 25, 1956. No 100024 Author : Gorloy, B. V.; Zarewich, T.V.; Gol'tsova, T.I.; Nokhryakowa Institut. : Title : Study of the Viability of Anthraz Spores Exposed to Freezing Orig Pub. : Inform. byul. biol. promesti. 1957. No 2, 5-5 Abstract : The physical, cultural-morphological, virulent properties, resativity and visbility of spores of 26 different sories of anthrax vacoines were studied after begin frozen once or twice at -420-A40 for three days with subsequent thawing at 18°. It was established that after freezing the physical properties of the anthrax vacoines are maintained, but the viability of the spores is reduced considerably. The virulence and reactivity are alteredN. Ya. Boyarskaya

L 15668-66 BWT(m)/BWP(t)/ETI JP(c) JD/WW/J3 ACC NR: AP6021213 (N) SOURCE CODE: UR/0294/66/004/003/0360/0363 AUTHOR: Gol'tsowa, Ye. I.	
TITLE: Density of lithium, sodium and potassium up to 1500-1600°C	
TOPIC TAGS: thermacouple, lithium, sodium, platinum, liquid metal /6	
ADSTRACT: Densities of lithium, sodium and potassium were determined up to tempera- three of 1600°C. Special apparetus and measuring techniques developse to overcome the problems aspectated with very high chamical activity of these elements are dis- the problems aspectated with very high chamical activity of these elements are dis- cupsed. The measurements are made in argon gas at pressures of 10 to 20 atm above the metal vapor saturation pressure. Measurement of the ratio of mass to volume of the sample at a point where the temperature variation was very small was made to ob- tain a precise density-temperature relationship. The temperature was determined us-	
couples at higher temperatures. The density-temperature relationship is to that of 1400°C. Above this temperature a strong drop in density occurs, analogous to that of non-metallic liquids near the critical temperature. Analytic forms for the experimental data wave derived for the linear range. The experimental proves are ±0.3%,	
	AUTHOR: <u>Gol'tsova, Ye. I.</u> DRG: <u>Power Engineering Institute im. Krzhizhanovskiy</u> (Energeticheskiy institut) FITLE: Density of <u>lithium</u> , <u>sodium</u> and <u>potassium</u> up to 1500-1600°C <u>27</u> <u>27</u> <u>27</u> SOURCE: Teplofizika vysokikh temperatur, v. 4, no. 3, 1966, 360-363 TOPIC TAGS: thereaccouple, lithium, sodium and potassium were determined up to tempera- there of 1600°C. Special apparetus and measuring techniques developed to overcome the problems associated with very high chamical activity of these elements are dis- duced. The measurements were midde in argon gas at pressures of 10 te 20 atm above the instal vapor saturation pressure. Measurement of the ratio of mase to volume of the instal vapor saturation pressure. Measurement of the ratio of mase to volume of the instal vapor saturation pressure. Measurement of the ratio of mase to volume of the instal vapor saturation pressure. Measurement of the ratio of mase to volume of the instal vapor saturation pressure. Measurement of the ratio of mase to volume of the instal vapor saturation pressure. Measurement of the ratio of mase to volume of the instal vapor saturation pressure. Measurement of the ratio of mase to volume of the instal vapor saturation pressure. Measurement of the ratio of mase to volume of the instal vapor saturation pressure. Measurement of the ratio of mase to volume of the instal vapor saturation pressure relationship. The temperature was determined us- ting chromel-alumel thermocouples below 1200°C and by platinum-platinum-rhodium thermo- ing chromel-alumel thermocouples below 1200°C and by p

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 AUTHORS: Kirillov, B. S., Gorenshteyn, M. M., Tkachenko, V. K., Goltvenko, A.L. TITLE: An Investigation of Dynamic Processes in the Live Train of an 1170 Blooming Mill Under More Severe Conditions of Rolling (Issledovaniye dinamicheskikh protsessov v rabochey linii blyuminga 1170 pri uzhestochennom rezhime prokatki) PERIODICAL: Izv. vyssh. uchebn. zavedeniy. Chernaya metallurgiya, 1958, Nr 1, pp 128-137 ABSTRACT: An investigation is made of dynamic processes in the live train of a blooming mill (B) by comparing regimes for rolling 6.9-t steel ingots in 13 and 11 passes. The results serve as reference material for dynamic stress analyses relating the more intensive B rolling operations. The analytical and experimental investigations include derivation of the magnitudes of the passage of the metal (Me) through the rolls. The static and motive moments in the period of Me contact display a linear change and may be deemed constant when a steady- state process is in progress. The dynamic moments are investigated 	1 . UII . UII . UII	from: Referativnyy zhurnal. Metallurgiya, 1958, Nr 11, p 75 (USSR)
 Blooming Mill Under More Severe Conditions of Rolling (Issledovaniye dinamicheskikh protsessov v rabochey linii blyuminga 1170 pri uzhestochennom rezhime prokatki) PERIODICAL: Izv. vyssh. uchebn. zavedeniy. Chernaya metallurgiya, 1958, Nr 1, pp 128-137 ABSTRACT: An investigation is made of dynamic processes in the live train of a blooming mill (B) by comparing regimes for rolling 6.9-t steel ingots in 13 and 11 passes. The results serve as reference material for dynamic stress analyses relating the more intensive B rolling operations. The analytical and experimental investigations include derivation of the magnitudes of the static, motive, and dynamic moments at different phases of the passage of the metal (Me) through the rolls. The static and motive moments in the period of Me contact display a linear change and may be deemed constant when a steady- 	AUTHORS:	Kirillov, B.S., Gorenshteyn, M.M., Tkachenko, V.K., Goltvenko, A.J.
Nr 1, pp 128-137 ABSTRACT: An investigation is made of dynamic processes in the live train of a blooming mill (B) by comparing regimes for rolling 6.9-t steel ingots in 13 and 11 passes. The results serve as reference material for dynamic stress analyses relating the more intensive B rolling operations. The analytical and experimental investigations include derivation of the magnitudes of the static, motive, and dynamic moments at different phases of the passage of the metal (Me) through the rolls. The static and motive moments in the period of Me contact display a linear change and may be deemed constant when a steady-	TITLE:	Blooming Mill Under More Severe Conditions of Rolling (Issledovaniye dinamicheskikh protsessov v rabochey linii blyuminga 1170 pri
a blooming mill (B) by comparing regimes for rolling 6.9-t steel ingots in 13 and 11 passes. The results serve as reference material for dynamic stress analyses relating the more intensive B rolling operations. The analytical and experimental investigations include derivation of the magnitudes of the static, motive, and dynamic moments at different phases of the passage of the metal (Me) through the rolls. The static and motive moments in the period of Me contact display a linear change and may be deemed constant when a steady-	PERIODICA	L: Izv. vyssh. uchebn. zavedeniy. Chernaya metallurgiya, 1958, Nr 1, pp 128-137
	ABSTRACT: Card 1/2	a blooming mill (B) by comparing regimes for rolling 6.9-t steel ingots in 13 and 11 passes. The results serve as reference material for dynamic stress analyses relating the more intensive B rolling operations. The analytical and experimental investigations include derivation of the magnitudes of the static, motive, and dynamic moments at different phases of the passage of the metal (Me) through the rolls. The static and motive moments in the period of Me contact

in Investigation of Dynamic Processes in the Live Train (cont.)	
y means of the equation for the moment of the elastic forces of the y the inertia of the flywheel masses in the live train of the mill du hase and the steady rolling process. The effect of the law governing and the value of the moment of resistance during contact upon ch ynamics of the process is demonstrated. Dynamic phenomena are pon rolling in 13 and in 11 passes. The fluctuations in the torque induced by the elasticity of the system do not exceed 3% of the stat	ring the contact ing the increase ange in the : virtually equal moments
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ard 2/2	



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5/137/60/000/009/005/029 A006/A001 Translation from: Referativnyy zhurnal, Metallurgiya, 1960, No. 9, r. 109. # 20243 Kirillov, B.S., Gorenshteyn, M.M., Goltvenke, A.I., Ikachenke, V.K. AUTHORS: Calculation of the Multi-Purpose Spindle of a Rolling Mill 14 TITLE: Sb. nauchn. tr. Zhdanovsk. metallurg, in-t, 1960, No. 5, pr. 372. PERIODICAL: 381 A comparison is made of the existing methods for calculating multi purpose spindles of a rolling mill. The magnitudes of error when using one or the other method were revealed. As a result of the study it was established that the discrepancy between the theoretical calculations of a spindle fork and experimental data is explained by the inaccurate accounting for the twisting stress. A.I. "selikov recommends to use the method of the strength of materials applied to the given case when calculating bore rolls. When calculating the blades of a roll, new coefficients are introduced which can be used as a basis of approximate cal-K.U. Translator's note: This is the full translation of the original Russian abstract. Card 1/1

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CIA-RDP86-00513R000515830005-4

GOLTVENKO A.I. ĺ s/137/62/000/002/060/144 A006/A101 Kapustina, M. I., Kuzema, I. D., Savchenko, A. M., Shiryayev, V. I., AUTHORS : Goltvenko, A. I., Grishina, Ye. N. A rapid method of calculating the efficiency of three-high sheet TITLE: rolling mills PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 2, 1952, 18, abstract 2085 ("Sb.nauchn. tr. Zhdanovsk. metallurg. in-t", 1960, no. 5, 185 - 198) Calculation data were checked by the oscillographic timing of a mill TEXT: operation for all the brigades when rolling the main conventional sheet types of the mill assortments. A method was developed for calculating the efficiency of three-high mills on the basis of an analysis of reduction conditions, and force and power indices of rolling. The theoretical calculation of the efficiency of sheet rolling mills is given. The problem is discussed how to check the mill amount of work. N. Yudina [Abstracter's note: Complete translation] Card 1/1

BOMAHOV, D., kand. tekhn. nauk; GOLIVIANITSA, K., inth. Using piles with pedestals formed by blasting in sagging loss soils. Stroi, i arkhit. 8 no.6131-32 Je '60. (MIRA 13:6) (Zaporosh'ye-Piling (Civil engineering)) . 1 -1

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GOL'THAKOV N.F.	
3(8) p-3 PHASE I BOOK EXPLOITATION SOV/2268	
Glavnaya geofizicheskaya observatoriya	
Yoprosy fiziki atmosfery (Problems in Physics of the Atmosphere) Leningrad, Gidrometeoizdat, 1959. 74 p. (Series: Its: Trudy, vyp. 82) Errata slip inserted. 1,250 copies printed.	·
Sponsoring Agency: Glavnoye upravleniye gidrometeorologicheskoy sluzhby pri Sovete Ministrov SSSR.	
Ed. (Title page): N. S. Shishkin, Doctor of Physical and Mathematical Sciences; Ed. (Inside book): T. V. Ushakova; Tech. Ed.: M. I. Braynina.	
PURPOSE: This issue of the Observatory's Transactions is intended for studen and beachers of synoptic meteorology as well as for professionals in the field.	ts
COVERAGE: This collection of articles is mainly concerned with the results of investigations on the physics of the atmosphere carried out in 1956-57 at the GGO, Division for the Physics of Free Atmosphere. The authors discuss the development (formation) and disintegration of convective cloud	5
Card 1/3	

Problems in Physics (Cont.) SOV/2268	
and the relationship between the cloud structure and aircraft icing. A new method of affecting supercooled clouds is described. One article is devoted to an analysis of the frontal structure of anticyclones. References accompany each article.	
TABLE OF CONTENTS:	
Shishkin, N. S. Growth and Disintegration <u>Dispersion</u> of Convective Cloud During Non-stable Stratification of the Atmosphere	s 3
Vasil'chenko, I. V. Computation of the Characteristics of Convective Cloud Flow	22
Zavarina, M. V. Phase Structure of Clouds and Aircraft Icing The article analyzes the results of observations made at Shosseynaya near Leningrad and at Arkhangel'sk for the purpose of establishing the effect of meteorological conditions on aircraft icing. The probability of icing as a function of cloud forms is presented in several graphs.	26
Card 2/3	

Problems in Physics (Cont.) Gol'tyakov, N. F., and P. N. Krasikov. Investigation of the Effect of Magnesium Antimonide on the Formation of Ice Particles in Supercooled Water Fog Krasikov, P. N., and G. A. Chikirova. Effect of Ammonium Chloride	36	
Krasikov, P. N., and G. A. Chikirova. Effect of Ammonium Chloride		
Admixture on the Stability of Water Fogs	41	
Prorenchuk, O. P. Frontal Structure of Anticyclones	45	
Sal'man, Ye. M. Methods of Radar Exploration of Cumulus Clouds	68	
AVAILABLE: Library of Congress		5
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VCCI	ESSION NIL: AT4038530	8/0000/63/000/000 /000	07/0017	
AUTI M. V	HOR: Furman, M.S. (Dootor) 7.; Gol'tynysva, N. A.	of chemical sciences); Idpes,	V.V.; Vinogradskaya,	
TLL	LE: Liquid phase exidation of	cyclohexane by atmospheric a	ir at high temperatures	
5011	RCE: Poluprodukty*dlya sinte is). Moscow, Goskhimizdat, 1	za poliamidov (Intermediates		•
Reni	IC TAGS: cyclohexane, cycloh id phase oxidation, cyclohexand ation, cyclohexane oxidation ki	e air oxidation, muga cemberat	bhexane exidation, cure cyclohexane	
in th 35 a tere hexa	TRACT: The kinetics of the line absence of catalysts at temp ad 50 atm. It was established ast when the reaction lasts less anone, resulting from the oxide specific activation energy of t o 50 atm. Oxidation at the ind	beratures of 160, 170 and 180 i that high temperature oxidati is than one hour. The ratio of ation of cyclohexane, increase	on is of practical in- cyclohexanol to cyclo- es the temperature rises. al/mol at pressures of	
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he rate of oxidation is not i letermined by the rate of o partied out by L. G. Solov's GIAP." Orig. art. has: 9 (governed by the rate at which the rea xygen absorption in the cyclohexane. yeva by a method developed in the any graphs and 2 tables.	"The analyses were lytical laboratory of	
ASSOCIATION: None			
SUBMITTED: 12Oct63	DATE ACQ: 06Apr64	ENCL: 00	
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Colore Ball, M. C.

Preparation from Pyrethrum," by V. P. Goluadze, T. A. Pkheidze, J. Ya. Enukidze, and G. I. Yashvill, Stornik Trud Tbilisskogo Nauchno-Issisjovatel'skogo Khimiko-Farmatsevticheskogo Instituta 1955, Vol. 7, pp 123-132 (from Referstivnyy Zhurnal--Khimiya, No 4, Feb 57, Abstract No 12408 by A. Grapov)

"Describes extraction of olecresin (I) from dry flowers of Dalmatian This is with anhydrous dichloroethane (II) by boiling and at room temp-mature. Calcium chloride (III), placed in a stream of boiling (I), de-matures the activity of (I). Copper sulfate (CS) and Tikha-Askan clay (IA) increase the activity of (I). An insecticidal dust is also formed th (TA). Treatment with isoamyl alcohol or methanol (IV) in the present (CS) led to a decrease in the activity of (I); and (IV) in the presented (CS)(III) in an increase Alcoholic solutions are lightened with basic

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USSE/Masser and Animal Physichery Thermoregulation. 7 Abs Jour: Ber Ehur-Biol., Fo 20, 1958, 93023. Suther : Golub, f., Fortan, C., Yezhkova, D. List Title : Development of Thereogenesis in Young Flys. Orig Pub: Za sous, s.-kh. nauku, 1958, A7, No 1, 73-82. Abstract: Op consumption in 14 young pigs was measured by the Frog method from the day of their birth to the age of 1 month. Up to the age of 6 days the pigs did Lot remet to a lowering of the temperature of the environment from 23 + 1 degrees to 3 + 1 degrees which an increased consumption of 02. With a lowering of the temperature for 30 minutes the r body comportture fell about 1.6 degrees. The O2 consumptions with Card : 1/2

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1.11 GOLUB, A.I. Synchronization of budding in yeast. TSitologiia 3 no.4:481-484 (HIRA 14:8) Ji-Ag '61, 1. Otdel biofisiki Instituta biologii Ural'skogo filiala AN SSSR, Sverdlovak. (YEAST) (CELL DIVISION (BIOLOGY)) (TEMPERATURE__PHYSIOLOGICAL EFFECT)

ROTIK, P.L.; GOLUB', A.I. GRATSERSHTEYS, P.M.; LOBKOVSKIY, D.P. Automatically controlled skip loaders. Ogneupory 25 no.10:448-452 (NIRA 13:10) 160. 1. Mikitovakiy dolomitayy kombinat (for Kotik). 2. Ukrenergochernet (for Golub", Gratsershteyn, Lobkovskiy). (loading and unloading) (Dolomite) (Automatic control)

4




KOROTKOV, A.N.; BERE ZNEV, V.N.; YURKOVSKIY, A.Ye.; BUTENKO, V.A.; GOLUB, A.I.; DUDAVSKIY, I.Ye.; KOLESNIK, M.I.; SOKOLOV, I.N.; MASLOV, V.D.

Increasing the stability of arches and walls of large-capacity steel-smelting electric furnaces at the "Dneprospetsstal'" Plant. (MIRA 16:5) Stal' 23 no.3:222-224 Mr '63.

1. Zavod "Dneprospetsstal'", Zaporoshskiy savod ogneuporov i Proyektnyy institut i inspektsiya po sluzhbe i kachestvu ogneuporov.

(Electric furnaces--Design and construction) (Zapprosh'ye-Iron and steel plants)

Abst Journal:	Solid Mineral Fuels, I-12 Referat Zhur - Khimiya, No 19, 1956, 62536	
Author:	Goftman, M. V., Golub', A. I.	
Institution:	None	
Title:	Catalytic Oxidation of Phenanthrene and of Anthracene Fractions. Communication 1	
Original Periodical:	Zh. prikl. khimii, 1955, 28, No 5, 507-515	
Abstract:	Phananthrane (I) and anthracene fractions were oxidized for the purpose of producing phthalic anhydride (II). The catalyst was fused vanadium pentoxide. Optimal operating conditions were de- termined by vapor phase oxidation of pure naphthalene. At 460° , contact time ~2 seconds and ratio of air to vaporized substance ~15 1/g yield of acidic products recomputed as II was 91% or 79% of theory. On oxidation of pure I optimal temperature $448-449^{\circ}$, air to I ratio (1/g) 20:1, contact time 4-6 seconds. Yield of	

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USSR/Chemical Technology - Chemical Products and Their Application. Treatment of Solid Mineral Fuels, I-12 Abst Journal: Referat Zhur - Khimiya, Bo 19, 1956, 62536 _ **`** Abstract: acidic products recomputed as II, 69.8-71.9%. Acidic products consist on the average of 86% II and 14% maleic anhydride (III). On excidation of redistilled, washed anthracene fraction, boiling range 310-345°, yield of acidic products on the basis of I is 112.22% of which 78.90% is II and the remainder III. In addition there are obtained 62.7% anthraquinone on the basis of theoretically calculated amount of anthracene present in the fraction. By boiling with 5% alkali and sublimation an anthraquinone MP 286° is obtained which does not depress the melting point of pure synthetic anthraquinome and has identical other characteristics with the latter. Yield of acidic products on catalytic oxidation of unwashed first an hracene fraction is 287.51% of the theoretically calculated on the wais of the phenanthrene; 188.14% of these are II and the remainde - III. In addition there is obtained a 42.54% yield of anthraquinque on the basis of the anthracene. Large yield of acidic produc's cm oxidation of anthracene fractions, exceeding greatly their field from pure I confirms the propostion concerning the advantages of composite utilization of a number of compounds in mixtures for the purpose of obtaining the same product. Card 2/2

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CIA-RDP86-00513R000515830005-4"

GOFMAN, H.V.; GOLAB, A.I. Catalytic exidation of basic polycyclic compounds of coal tar and some of its fractions. Zhur.prikl.khim. 29 no.8:1256-1265 Ag '56. (MIRA 10:10) 1.Vostochnyy nauchno-issledovatel'skiy uglekhimicheskiy institut. (Oxidation) (Coal tar) (Phthalic anhydride)

68-58-7-13/27

AUTHOR: Golub

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Catalytic Vapour Phase Oxidation of Naphthalene and TTTLE: Naphthalene Fraction (Kataliticheskoye parofaznoye ckisleniye naftalina i naftalinovoy fraktsii)

PERIODICAL: Koks i Khimiya, 1958, Nr 7, pp 44-47 (USSR)

ABSTRACT: As the catalytic oxidation of pressed naphthalene and naphthalene fraction was not tested on Soviet works, while the former process has been successfully operated for many years abroad and the latter process for a few years in Sweden, an experimental oxidation of pressed naphthalene using Soviet catalyst (used for the oxidation of crystalline naphthalene) was carried out. The work was considered as a preliminary stage for the industrial experiments on the oxidation of naphthalene fraction. The results obtained indicated that no difficulties in oxidation of pressed naphthalene should arise. The yield obtained was 76% of phthalic and 5% of maleic anhydride (of the theoretical). For further investigations of the oxidation of various individual compounds and technical products derived from tar, a larger pilot plant was designed of a throughput of 8 kg/day Card 1/2 (Figure). Crystalline and pressed naphthalene and

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GOLUB, AM. USER/ Inorganic Chemistry, Complex Compounds Abs Jour : Referat Zhur - Khimiya, No 4, 11446 C, Author : Golub A.M. Title : Physocochemical Study of Complex Silver Thiocyanates Orig Pub : Zh. obshch. khimii, 1956, 26, No 7, 1837-1848 Abstract : Potentiometrically and by the method of solubility in aqueous and anhy-For the triangle of the section of solubility in aqueous and any-drous solvents has been ascertained the predominant formation within the region of medium and high CRS concentrations of the complex (AgCRS), having the dissociation constant 2.86. 10-11 at 20°, 3.56. 10-10 at 40° and 5.36. 10° at 60°, and a heat of formation 10^{-10} scale at 20-60°. Routlibrium constant has been calculated for the reaction AcCES, 1000 Equilibrium constant has been calculated for the reaction AgCRS(solid) + n CNS = Ag(CNS)^L_{n-1} in water and acetone solutions (mean value 0,145) and the solubility product of AgCRS in aqueous solutions (4.14. 10⁻¹²), It is shown that in acetone solution, in contradistinctions (7.17.10), it there is formed Ag(CNS)². A molecular compound KCNS.AgCNS.3(CH₃)₂CO has been isolated. The conclusion is reached that complex-formation exercises greater influence on magnitude of equilibrium electrode potential than nature of solvent. 1/1 USSR/Physical Chemistry, Thermodynamics, Thermochemistry, Equilibriums, Phys-Chem. Anal-is, Phase-Transitions. B-8 Abs Jour : Ref Zhur - Khimiya, No 7, 1957, 22331. Author : A. M. Golub, B. H. Kilimnik. Inst APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515830005-4"

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CIA-RDP86-00513R000515830005-4

Golus, A. M. and Samcylonko, V. E. 73-1-4/26
AUTHOR: Golub, A. M. and Samcylonko, V. E. 73-1-4/26
TITLE: Thiocyanate Complexes of Lead. I. Formation of the Simplest Complexes. (Rodanidnyye Kompleksy Svintsa. I. Obrazovaniye Prosteyshikh Kompleksov.)
PERIODICAL: Ukrainskiy Khimicheskiy Shurnal, 1957, Vol.23, No.1, pp. 17 - 21 (USSR).
ABSTRACT: Thiocyanate compounds resemble halides in muby ways, but they differ from lead halide complexes. The simpler Process of the sense thiocyanate complexes quoted in literature include Pb(CHS)c: H. and Pb(CHS)CI and Pb(CHS)Gr (viz. (1): Herty, G. H. and be assumed that complex groups consisting of thiocyanate ions was shown by Golub, A. E. (Naukovi Zapiski KDY, Kim. out in the systems Pb⁻ , 2NS⁻ -H₂O. Experiments vere carried ried out now in limits of concentrations were carried ried out now in limits of concentrations of CHS-ions from metrically. The existence of the complex groups Pb(CHS) and Pb(CHS); was confirmed by hee asume of CHS-ions from and Fb(CHS); was confirmed by hee asume of CHS-ions from and Fb(CHS); was confirmed by hee asume of the optical carried carried out now in limits of concentrations were carried ried out now in limits of concentrations were carried out and who consist hyperiments were carried and Fb(CHS); was confirmed by hee asume of CHS-ions Pb(CHS); was confirmed by hee asume optical carried and Fb(CHS); was confirmed by hee asume optical carries and Fb(CHS); was confirmed by hee asume optical carries and Fb(CHS); and Fb(CHS); and Fb(CHS); coups were

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Thiocyanate Complexes of Lead.I: Formation of the Simplest

revealed by potentiometric measurement; these exist in regions of low concentrations. Dissociation constants of these complexes were calculated and are tabulated in table I. The heat effect of reactions during the formation of the complexes PbCNS' at temperatures between $20 - 40^{\circ}$ C. are evaluated and tabulated (at 40° C)(table 2.) At higher temperatures (40° C) the PbCNS⁺ complex prevailed. Higher temperatures (up to 60° C) cause disintegration. There are 2 tables, 3 graphs, 5 references, 3 of which are Slavic.

SUBMITTED: April, 30, 1956.

ASSOCIATION: Klyev State University, imeni T. G. Shevchenko. (Kiyevskiy Gosudarstvennyy Universitet im. T.G. Shevchenko.) AVAILABLE: Library of Congress

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AUTHOR:	Golub, A. M.	507/156-58-4-18/49
TITLE:	Higher Coordination Number	nate Complexes of Silver With in the Solution (Cbrazovaniye ov serebra vysshey koordinatsii v
PERIODICAL:	Nauchnyye d oklady vyas hey tekhnologiya, 1958, Nr 4,	shkoly. Khimiya i khimicheskaya pp 685-689 (USSR)
ABSTRACT :	cyanate complex of silver :	od the formation of the seleno- in aqueous solutions within the range $0.3-1.5 \mod/1 \operatorname{KCNSe}$ was investi- ns mainly the complex $\left[\operatorname{Ag}(\operatorname{CNSe})_{7}\right]^{2-1}$
	is formed. In mixed aqueous	s acetone solutions (6-7 mol/1 NSe) $_{4}^{3-}$ is easily formed. Salts in
	crystalline state with the $\left[\operatorname{Ag}(\operatorname{CNSe})_2\right]^{-}$, $\left[\operatorname{Ag}(\operatorname{CNSe})_3\right]^{2}$.	following anions were produced: and $\left[\operatorname{Ag}(\operatorname{CNSe})_{A}\right]^{3-}$. New salts of
Card $1/2$	the silver selenocyanate of KAg(CNSe) ₂ , KAg ₂ (CNSe) ₃ , K	omplex were isolated with potassium: $_{2}Ag(CNSe)_{3}$, $K_{3}Ag(CNSe)_{4}$. The salt
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The Formatiun Number in the	of Selenccyanate Complexes of Silver With Higher Coordination	
ASSOCIATION :	$KAg_2(CNSe)_3$ is decomposed on heating without melting. On heating above 400°C the compound $KAg_2(CNSe)_3$ is converted into $KAg(CNSe)_2$. The salt $K_3Ag(CNSe)_4$ was isolated in slow crystal- lisation in the vacuum exsiccator on P_2O_5 in the form of color- less crystals. This salt can also be produced from acetone solutions by mixing AgCNSe and KCNSe at a ratio of 1:3. It was confirmed that in working with solvents more active than water the coordination number of the complexes increases. There are 4 figures and 6 references, 5 of which are Soviet. Kafedra neorganicheskoy khimii Kiyevakogo gosudarstvennogo universiteta im. T. G. Shevchenko (Chair of Inorganic Chemistry at the Kiyev State University imeni T. G. Shevchenko)	
	March 10, 1958	
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5(2) AUTHOR:	Golub, A. M. SOV/153-58-6-3/22	
TITLE:	On Nomenclature in Inorganic Chemistry (O nomenklature v neorganicheskoy khimii)	
PERIODICAL:	Izvestiya vysshikh uchebnykh zavedeniy. Khimiya i khimicheskaya tekhnologiya, 1958, Nr 6, pp 14-19 (USSR)	•
ABSTRACT:	The problem mentioned in the title is among the most burning ones in theoretical chemistry. Major reforms in the field of chemistry have always been accompanied by a new classification of substances and by a change in the bases of nomenclature. As chemistry is an international science, it is only natural that its language should not be removed from the science itself, and that it should not lose contact with the principles that have been established therein with regard to definitions. In the drawing up of a national nomenclature care must be taken to avoid isolationism. The achievements of international science must not be pushed aside in so important a matter as is that of nomenclature. At the same time, however, the national nomenclature also has to take account of the pushelism.	
Card 1/3	language. It is necessary that the term for any given substance should readily illustrate both the composition and the nature	

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On Nomenclature in Inorganic Chemistry

SOV/153-58-6-3/22

of the substance concerned. The Russian nomenclature in inorganic chemistry, as it is used today, in many respects falls short of these requirements. Whereas, in the thirties efforts were being made (Ref 2) to adjust the Russian nomenclature to the international one, there has of late been an increasing tendency to revert to 19th century Russian nomenclature, which, in fact, is nothing but a slightly modified German system. However, international nomenclature is not entirely flawless either (Refs 4-6, 17). In the paper under consideration the author restricts himself to a treatment of the acids, salts, and complex compounds, as the other substances have been dealt with on a previous occasion (Ref 6). The rest of the paper is subdivided as follows: acids and salts; terminology of the acid-, basic-, and thio-salts; complex and molecular compounds; terminology of compounds with a complex anion, compounds with a complex cation, molecular compounds with an unusual element valency, and finally double salts and double complexes. Numerous examples of obscure or confusing terms are quoted in respect of all the categories enumerated, and in many cases improvements are suggested. There are 22 references, 16 of which are Soviet.

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• •	Galub, A.M.	
AUTHORS:	Golub. A. M., Ivanchenko, G. D.	
TITLE:	I. Investigation of the Zinc-Thiocyanate Complex in a Solution (I. Izucheniye rodanidnykh kompleksov tsinka v rastvore)	
PERIODICAL:	Zhurnal Neorganicheskoy Khimii, 1958, Vol.3, Nr 2, pp.333-338 (USSR)	
A:STRACT:	A suitable method for the production of $Zn(CNS)_{2}$ was worked out and investigations of its property were performed. Zinc- thicoyanate has the following composition: $Zn - 36,01$ %, CNS - 63,99 %. Zinc-thicoyanate is easily soluble in water and the solubility increases with increasing temperature. In bensene and dioxane it is insoluble. In acetone and absolute alcohol it is little soluble (0,8 mol/1). In a temperature interval of 210-225 C $Zn(CNS)_{2}$ melts with the beginning of decomposition. By the determination of the electric conducti- vity of the mixture $KCNS-Zn(CNS)_{2}$ in alcoholic solutions the assumption is expressed that the complex $K[Zn(CNS)_{2}]$ is pre-	
Card 1/2	sent here. The investigations inaqueous solutions take a	

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 lutions isomolar initial solutions of 0,2 mol/l were used. The complex K₂ [Zn(CNS)] is determined in an acetone solution by the determination of electric conductivity. The complex-solutions were also investigated by potentiometric methods. Asindicator-electrode the authors used zinc-amalgam opposite a saturated calomel-electrode. The results in aqueous solutions showed the presence of the following complexes: ZnCNS', Zn(CNS)₂, Zn(CNS)¹ and Zn(CNS)₄². The dissociation constants of these four complexes as well as the thermal effect in the formation of the Zn(CNS)² complex in the solution, which amounts to 5,7 cal, were also determined. SUEMITTED: December 30, 1956 	i. Investig	ation of the Zinc-Thiocyanate Complex in a Solution	
are Slavic. SUBMITTED: December 30, 1956		The complex K ₂ $Zn(CNS)_{1}$ is determined in an acetone solu- tion by the determination of electric conductivity. The com- plex-solutions were also investigated by potentiometric meth- ods. As indicator-electrode the authors used zinc-amalgam aqueous solutions showed the presence of the following com- plexes: ZnCNS ⁺ , Zn(CNS) ₂ , Zn(CNS) ⁻ and Zn(CNS) ₄ ⁻ . The dis- sociation constants of these four complexes as well as the thermal effect in the formation of the Zn(CNS) ²⁻ complex in	
		are Slavic.	
	SUBMITTED:	Dacamber 30, 1956	
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301/ 20-120-6-25/59 The Influence of the Solvent on the Coordination Interaction and the Effect of the "Negative Complex Formation" und the filect of the megative complex formation (Vlivuniye rastvoritelya na koordinatsionnoye vzaimodeystviye Golub, A. M. AUTHOR: i ettekt "otritestelinogo kompleksoopragoasu-Au") Doklady Akademii nauk SSSR, 1958, Vol., 120, Nr 6, pr.1255-1258 TITLE: As it was proved earlier (Ref 1) the character of the complex As it was proved earlier (ner 1) the character of the compar-formation in the presence of medium concentrations of sol-VERGETOR IN the presence of medium concentrations of sor-vants such us alcohol, acetone, and dioxane remains unchanged in someous evalues as well os in more someous colutions. PERIODICAL: (USSA) in aqueous systems as well as in pure aqueous solutions. in aqueous systems as well as in pure aqueous solutions. Higher concentrations, however, may considerably reduce the reaction of complex formation (Ref 2). In order to explain ABSTRACT TURCTION OF COMPLEX FORMATION (NET 2). IN UTGET to ex this latter influence the authors studied the system, this latter influence the authors studied the system d2+ _ UN _ H_O dioxane potentiometrically. Before investi-mating the solutions it was found that cadmium nitrate and ending the solutions of eacily soluble in diorane. Therefore. Gating the Soluvious is was found that caunium interase and Cadrius perchlorate are pasily soluble in doxane. Therefore, it could be expected that cadmium ions form complexes with it courd be expected that cadmium long form complexes with dioxane in the presence of water. This, however, will probably Card 1/3

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The Influence of the Solvent on the Coordination Interaction and the Effect of the "Negative Complex Formation" not disturb the determination of the composition of cadmium thickyanate complexes. On Tables 1 - 3 the values of the dissociation of the complexes are given which dominate in a certain range of concentration of the complex former. As can be seen from Table 1 and Fig 1 the complex Cd(CNS) appears alwemdy at 2.5 mols of dioxane, i.e., more easily than in an aqueous solution. Moreover, a complicated complex Cd(CNS) is observed in a mixed solution with 2,5 mols of dioxane. In the case of still higher dioxane concentrations (Tables 2, 3) also the complex Cd(CNS)⁴ was observed. Thus, the introduction of dioxane extends, so to speak, the possibilities of the coordination of cadmium. At first sight this would be contradictory to the formation of molecular compounds of dioxane and cadmium salts. In order to find a definite solution of this problem the author also carried out potentiometric measurements in the system $Cd^{2+} H_2 0 - Dy$ (where Dy donotes dioxane). The results are given on Table 4. Instead of the expected reduction of the values of the electrode potentials a slight increase could be noticed. From Card 2/3 this follows that no complex groups of cadmium with dioxane Aneons

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AUTHOR: Golub, A. M.

TITLE:

Investigation into metal perchlorates. The preparation of anhydrous perchlorates of heavy metals

PERIODICAL: Referativnyy zhurnal. Khimiya, 1960, no. 4, 109, abstract 12877. (Visnyk Kyyivs^{*}k. un-tu, 1959, no. 2, ser. fiz. ta khimiyi, no. 1, 105 - 107)

TEXT: For theoretical considerations a new method of obtaining anhydrous perchlorates (and nitrates) of heavy metals by the introduction of non-aqueous' solvents containing oxygen donor atoms (dioxane, acetone) is proposed. The hypothesis is advanced that medium bismuth perchlorate could be extracted from a mixed water-dioxane or water-acetone solution. The conclusion is that the perchlorates (and nitrates) of heavy metals form molecular compounds with dioxane.

Author's summary

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[Abstracter's note: Complete translation]

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5(2) AUTHORS : Golub, A. M., Pomeranta, G. B. 301/78-4-4-11/44 TITLE: Complex Silver Selenocyanates (Kompleksnyye selenotsianaty serebra) Zhurnal neorganicheskoy khimii, 1959 Vol 4, Nr 4, pp 769-774 PERIODICAL: (USSR) ABSTRACT : The potentiometric method was used to investigate the conditions needed for preparing complex silver selenocyanates in aqueous and acetone-water solutions at 20°. The complexes $Ag(CNSe)_3^{2-}$ and $Ag(CNSe)_4^{3-}$ were determined. The dissociation comstants of these compounds at 20° were determined: $Ag(CNSe)_3^{2-}$: K = 1.61.10⁻¹⁴ (in aqueous solution) and 2.6.10⁻¹⁵ (in acetone-water solution). $Ag(CNSe)_4^3$: $K = 1.57.10^{-15}$ (in acetone-water solution). At higher concentrations of the complex-former KCNSe in acetone-water solution the complex ion $Ag(CNSe)_4^{3}$ forms. The solubility of AgCNSe in the presence of KCNSe ions in aqueous and alcoholic solution was Card 1/2

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	investignted. Crystals form after solutions of silver selencoyanate selencoyanate. Fine crystals are	SOV/78-4-4-11/44
	solutions with an excess of potas of these crystals indicated the c	in the presence of potassium sipitate from acetone-water
	salt is stable in the air, is dif but easily soluble in aqueous sol and potassium selenocyanate. Thre results of the potentiometric mea silver concentration. b) constant cyanate ion. and c) constant acet I figures. 3 tables. and 8 refere	ficultly soluble in water, utions of sodium thiosulfate e tables summarize the surements at a) constant concentration of selenc.
ISSOCIATION: 1	Liyevskiy gosudarstvennyy univers Afedra neorganicheskoy khimii (K G. Shevchenko, Chair of Inorgan	itet im. T G. Shevchenko
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5(4) Authors:	Golub, A. M., Kosmatyy, Yu. V. SOV/78-4-6-22/44	
TITLE:	The Potentiometric Investigation of Lead Selenium Cyanates (Potentsionetricheskoye issledovaniye selenotsianatov svintsa)	
PERIODICAL:	Zhurnal neorganicheskoy khimii, 1959, Vol 4, Nr 6, pp 1347-1351 (USSR)	
ABSTRACT :	The lead selenium cyanate complexes were investigated in aqueous and mixed solutions. The potentiometric method was used for the determination of the stability and composition of these complexes. The composition of the complex is not changed in aqueous solution in the case of constant and changing ionic concentration of the solution. The complex has the composition $Pb(CNSe)_6^{4-}$. The dissociation constant, the complex formation reaction, and the thermal effect of this complex were detected at 20° and 30°. The dependence of the $Pb(CNSe)_{1}^{4-}$	
Card 1/2	on the log $\begin{bmatrix} CNSe^{-} \end{bmatrix}$ in the aqueous solution is given in figure 1. The influence of the solvent on the formation of the lead selenium cyanate complexes was investigated and the results	C.
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	of the mixed solutions are given in the tables 2 and 3. It was found that the stability of the complex is increased by the addition of acetone. The increased by
	tration complicates the composition of the acetone concen- sible that the complex Pb(CWSe)6- is formed by a bicher
	$\frac{\left[Pb\left(CNSe\right)\right]}{\left[Pb^{2+}\right]} \text{ on log } \left[CNSe^{-}\right] \text{ in the mixed aqueous-acetone}$ solution was investigated at 20° and given in figure 2.
	are 2 figures, 3 tables, and 7 references 5 of middle
	Kiyevskiy gosudarstvennyy universitet im. T. G. Shevchenko (Kiyev State University imeni T. G. Shevchenko). Kafedra ne- organicheskoy khimii (Chair of Inorganic Chemistry)
	March 25, 1958
Card 2/2	

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i	SOV/78-4-6-23/44
5(4) Authors:	Golub, A. M., Kilimnik, G. M.
TITLE:	On the Problem of the Coloration of the Copper Thiocyanate On the Problem of the Coloration of the Copper Thiocyanate Complex in Solution (K voprosu of okraske rodanidnykh kompleksov medi v rastvore)
PERIODICAL:	Zhurnal neorganicheskoy khimii, 1959, Vol 4, Nr 6, pp 1352-1358 (USSR)
ABSTRACT: Card 1/2	(USSR) Spectrophotometric investigations were carried out in aqueous and alcoholic KCNS-CuCNS-solutions, aqueous $Cu(ClO_4)$ -solution, alcoholic solution of $Cu(CNS)_2$, CuCl-LiCl and $Cu(CNS)_2$ -KCNS in acetone medium. The results are given in the figures 1 and 2. It was found that the red color in recently produced $Cu(CNS)_2$ -KCNS-solution is equal to that of a longer stored $Cu(CNS)_2$ -KCNS-solution. The alcoholic $Cu(CNS)_2$ solution has a yellow color. The compound $Cu(CNS)_2$ is decomposed by the addition of acetone under the separation of monovalent copper thiocyanate. It is assumed that the coordination struc- ture of the thiocyanate ion and the copper ion in the acetone solution is changed and that a donor-acceptor interaction

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On the Problem of the Coloration of the Copper Thiocyanate Complex in takes place between the central atom and the acetone molecules. A colorless crystalline salt of the composition $K_2Cu(CNS)_3$ was isolated from an acetone solution (Fig 3). The crystals are easily solved in acctone, the salt decomposes in water. The crystals decompose only partly in alcohol. The crystals melt by heating at 55 - 165, and decompose at $220 - 230^{\circ}$ under production of gaseous substances. There are 3 figures and 8 references, 4 of which are Soviet. ASSOCIATION: Kiyevskiy gosudarstvennyy universitet im. T. G. Shevohenko (Kiyev State University imeni T. G. Shevchenko). Kafedra neorganicheskoy khimii (Chair of Inorganic Chemistry) SUBMITTED: March 26, 1958 Card 2/2

5(2) AUFHOR:	Golub, A. M.	SO¥/78-4-7-17/44
TITLE:	Investigation of the Seleno Solubility Method (Isucheni; svintsa metodom rastvorimos	cyanate Complexes of Lead by the /e selenotsianatnykh kompleksov ti)
PERIODICAL:	Zhurnal neorganicheskoy khin pp 1577-1581 (USSR)	aii, 1959, Vol 4, Nr 7,
ABSTRACT:	cyanate complexes: MeA _k + ni difficultly soluble salt, Ks salts. In stable complexes r non-stable complexes its hig ordination numbers. On the b that in the system Pb(CNSe)	withor's earlier papers (Ref 1) the for iodide-, thiocyanate- and seleno- $A \leftarrow K_n MeA_{k+n}$, where MeA_k is a and $K_n MeA_{k+n}$ two easily soluble thas a low value (1 or 1/2), in thest value indicates high co- asis of these rules it was assumed a KCNSe, aqueous solutions, in
	which Pb-complexes show litt	le stability, must contain acetone solutions, in which the com-
Card 1/2	plexes are more stable, Pb(C	NSe)3-ions must be found to occur.

Investigation	of the Selenocyanate Complexes of Lead by the Solubility Method	
ASSOCIATION :	Experimental results (table 1 and figure 1 acctone solutions, table 2 and figure 2 aqueous solutions) confirm this expectation and thus also the rule set up. Investigation of the properties of the initial substance $Pb(CNSe)_2$ was carried out in col- laboration with Yu. Ye. Kosmatyy. If complex solutions are stored over longer periods, shiny black films are formed on the glass walls, which are said to be due to photolysis. It was possible to crystallize the salt KPb(CNSe)_3 from the acetone solution, and the salt K_Pb(CNSe)_6 from a water-acetone solution. The microphotographs of the two salts are given by figure 3. There are 3 figures, 2 tables, and 5 Soviet references. Kijevskiy gosudarstvennyy universitet im. T. G. Shevchenko.	
	T. G. Shevchenko, Chair of Inorganic Chemistry)	
	March 25, 1958	
Card 2/2		

GOLLIB, A.M.; ROMANENKO, L.I.; SANOYLENKO, V.N. Lead rhodanide complexes. Part 2: Composition and stability of anion complexes. Ukr.khim.shur. 25 no.1:50-54 '59. (MIRA 12:4) 1. Kiyevskiy gosudarstvenny universitet im. T.G. Shevchenko, kafedra neorganicheskoy khimii. (Lead thiocyanate) 7



GOLUB, Andrey Matveyevich [Holub, A.N.], kand.khim.nauk; PETRUSENKO, "Antibutoliy" Mikolayevich [Petrusenko, A.M.], kund.filosof.nauk; SOLOHIA, V.P., kand.khim.nauk, glavnyy red. [D.I.Mondeleev's periodic law is a fundamental law of nature] Periodychnyi zakon D.I.Mendeliejeva - fundamental'nyi zakon pryrody. Kyiv, 1960. 56 p. (Tovarystvo dlia poshyrennia politychnykh i naukovykh snan' Ukrains'koi RSR. Ser.5, no.3-4). (NIRA 13:7) (Periodic law)

AUTHORS :	Golub, A. H., Kostrova, R. A. S/078/60/005/03/039/048 B004/B005
Title :	Investigation of <u>Complex Formation</u> in the System VO ²⁺ - CNS ⁻ - Solvent
PERIODICAL:	Zhurnal neorganicheskoy khimii, 1960, Vol 5, Nr 3, pp 726-730 (UBSR)
AB3TRACT :	The object of the present paper was the determination of more com- plicated complexes than the known VOSCN ⁺ . At first, the authors report on the investigation of the electrical conductivity in the system VO ²⁺ - CHS ⁻ - solvent. Water, and water + 50% of acetone, were used as solvents. The conductivity was measured according to Kchlrausch's method. An EO-7 oscillograph was used as null in- strument, a generator of type 2G-10 as ourrent source. Figure 1 shows that with increasing ion concentration the conductivity changes monotondusly. The deviation from the additivity (diagram Ax, compo- sition, Fig 2) shows indistinct maxima which are ascribed to the complexes VOSCH ⁺ and VO(SCH) ₂ . These complexes are little stable
Card 1/2	so that the investigation of the conductivity yielded no clear results. Therefore, the system was investigated by an SF-4 spectro- photometer in the wave band 320-1000 mµ in aqueous solution as well

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CIA-RDP86-00513R000515830005-4

69539 s/078/60/005/05/14/037 B004/B016 5.2120 Romanenko, L. I. Golub, A. M., AUTHORS: The Influence Exercised by the Nature of the Solvent Upon the TITLE: Formation of Thiocyanate Complexes (of Bivalent Mercury Zhurnal neorganicheskoy khimii, 1960, Vol. 5, No. 5, pp. 1085-1089 PERIODICAL: TENT: The authors made a potentiometric investigation of the thiocyanate complexes of mercury which form in pure non-aqueous solvents or at high concentrations of such solvents in water. Acctone and methanol were used as solvents. The equilibrium constant for $Hg^{2+} + Hg \longrightarrow Hg^{2+}_2$ was determined. The composition of the complexes resulted graphically from the diagrams 1g Hg²⁺, 1g.CNS (Figs. 1-4). 4 The experimental data are presented as follows: value of $K = \left[Hg_2^{2+1}\right] / \left[Hg^{2+1}\right]$ in the various solvents (Table 1); potentiometric investigation of the system Hg^{2+} - CNS⁻ - H₂O - CH₃OH (Table 2); system Hg^{2+} - CNS⁻ - H₂O - CH₃COCH₃ (Table 3); system Hg^{2+} - CNS⁻ - CH₃OH (Table 4), and system Hg^{2+} - CNS⁻ - H₂O (Table 5). The statement made by A. I. Posigun (Ref. 3) that the anion complexes of mercury with Card 1/2

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	Exercised by the Mature of the Solvent tion of Thiodyanate Complexes of Ty	s/078/60/305/05/14/037 B004/B016
creasing concer becomes more of	ns may posisess the coordination number 6, ntration of the non-aqueous solvent the c omplicated up to Hg(CHS)67, whereas in a	omposition of the anions nhydrous solvents simpler
	formud. The $Hg(ONS)_6^4$ complexes form in aqu	
centrations of plexes Hg(CNS)	between 2,4 and 3.4 moles/1. The dissoci [", Hg(CNS)];", and Hg(CNS)];" in the vario	ation constants of the com- us solvents were calculated.
There are 4 fig	gares, 5 wables, and 5 references, 4 of w	hich are Soviet.
ASSOCIATION:	Kiyevskiy gosudarstvennyy universitet im (Eiyev State University imeni T. O. Shev	
SUBNITTED :	September 28, 1958	
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Card 2/2		

- #.

CIA-RDP86-00513R000515830005-4

s/078/60/005/009/027/040/XX B017/B058

AUTHORS: Golub, A. M.	and <u>Skopenko, V V</u>		i
TITLE: Copper Selen	nocyanates (
pp: 1973 - 1			
investigated by spectrophot The dependence of the solut centration of KCNSe in acet graphically represented in complex KCu(CNSe)Cl" was ca examination of copper seler shows that the following co CuCl(CNSe)", Cu(CNSe)2, Cu	te <u>complexes</u> in acetone solutions were tometric and solubility determinations. bility of copper (I) chloride on the con- tone was ascertained, and the results are Fig. 1. The equilibrium constant of the alculated as being 0.24. Spectrophotometric mocyanate complexes in acetone solutions omplexes may appear in the solution: $u(CNSe)_{3}^{2^{-}}$ and $C_{1}(CNSe)_{4}^{3^{-}}$. The compounds e isolated and their properties investigated.	V -	
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Copper Saland	toyanates	\$/0 78/60/005/009/027/040/ XX B017/B058
which decompo selenccyanate alcohol, and compound deco	cues very easily in wa CuCNSe is practicall stable in a dry state omposes when heated. C	rless. finely crystalline powder iter and alcohol. The copper y unsoluble in water, acetone, or at normal temperatures. This copper selenocyanate is easily the formation of complexes. The
solubility pr authors menti	roduct of CuCNSe at 20 ion papers by V. F. To	<pre>0°C amounts to 1 82 10-10. The propov, Yu V. Karyakin, and a, 1 table, and 8 Soviet references.</pre>
solubility pr authors menti I. I. Angelor	roduct of CuCNSe at 20 ion papers by V. F. To r. There are 2 figures Kiyevskiy gosudarstv Kafedra neorganiches	9°C amounts to 1 82 10 ⁻¹⁰ . The propov, Yu V. Karyakin, and 9, 1 table, and 8 Soviet references. rennyy universitat im T.G. Shevchenko koy khimii 11 imeni T. G. Shevchenko



CIA-RDP86-00513R000515830005-4

Brief S/073/60/026/004/009/018/XX 2209, 1282, 1273 B023/B064 53700 AUTHORS: ____ Golub, A.M. and Romanenke, L.I. TITLE: Rhodanide Complexes of Lead 3. Anion Complexes of Lend With the Coordination Number 5 Ukrainskiy khimicheskiy zhurnal, 1950, Vol. 26 No. 4. PERIODICAL: pp. 418-422 TEXT: The authors of the present paper studied 1) the effect of the mitrate ions on the lead complex formation, 2) the actual value of the dissociation constant of rhodanide complexes, and 3) data on the isolation of the molecular lead rhodanides with the coordination number 6. To determine the composition and stability of the nitrate lead complexes, the solutions of lead perchlorate (with constant concentration) and sodium nitrate were potentiometrically investigated. A saturated calomel electrode served as reference electrode and lead amalgam as indicator The Pb(ClQ₄)₂ concentration was 0.01 M, that of sodium nitrate 0.2-2 M The equilibrium electrode potentials were measured with the PTT-1(PPTV-1) potentiometer. The reduction of the lead electrode potential with in-Card 1/3

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	86165
Rhodanide Complexes of Lead 3. Anion Complexes of Lead With the Coordination Number 6	S/073/60/026/004/009/018/XX B023/B064
creasing nitrate icn concentrations in t	the system Pb ² , - NO ₃ - H ₂ O
indicates the formation of lead nitrate	complexes. The PhNO3 composition
was graphically determined on the basis dissociation constant was calculated and amounts to 0.16 on the average. V. M. So the nitrate lead complexes. Furthermore was made of the formation of the lead ri type at constant ionic strength of the s with perchlorate ions. The formation of	a found diversally debie, it investigating amoylenke assisted in investigating hodshide complexes of the anich solutions which was maintained the anion complex Pt(CNS)
was confirmed and the actual value of it	ts dissociation constant was
found to be $1.83.10^{-2}$ at an ionic streng K.B. Yatsimirskiy's data and by means of the solubility product of Pb(CNS) ₂ was	f the afcrementioned constant.
problem was solved by crystallizing KCN	S + Pb(CNS); from gretone, The
analysis of the salt obtained yielded:	
Card 2/!	

CIA-RDP86-00513R000515830005-4

• 86165 Rhedanide Complexes of Lead S/073/60/026/004/009/018/XX 3. Anion Complexes of Lead With B023/BC64 the Coordination Number 6 Рb CNS K 28.73, 48.56. 21.71% as compared with the theiretical composition 29,10, 48.94, 21.96% for K₄Pb (CNS)₆ Consequently the lead rhodanide complex with the coordination number 6 may be obtained not only in the solution but also an molecular compand. There are 2 figures, 2 tables and 5 references: 3 Soviet and 2 US. ASSOCIATION: Riverskiy gosudarstvennyy universitet (Kiver State University) SUBMITTED: March 4, 1959 Card 3/3

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LITINETSKIY, Isot Borisovich[Litynets'kyi, I.B.], kand. tekhn. nauk; [OLIB, A.H. [Holub, A.M.], kand. khim. nauk, otv. red.; TE-PLYAROVA, A.S., red.

[M.V.Lomonosov gs the founder of physical chemistry] M.V.Lomonosovsensvopeloshnyk fizychnoi khimii. Kyiv, 1961. 38 p. (Tovarystvo dlia poshyrennia politychnykh i naukovykh znan' Ukrains'koi RSR. Ser.6, mo.7) (MIRA 14:9) (Lomonosov, Mikhail Vasil'evich, 1711-1765)

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1. Kiyevakiy gosudarstvennyy universitet im. T.G.Shevchenko. (Syntems (Chemistry)) (Silver compounds)

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GOLUB, A.H.; SNOROBOGAT'KO, Ye.P. -22

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Indida complexes of lead in monaqueous solvents. Ukr. khim. shur. 27 no.2:141-146 161. (MIRA 14:3)
l. Kiyevskiy gosudarstvennyy universitet im. T. G. Shevchenko, kafedrameorganikheskoy khimii. (Lead compounds)

