BANIS, T.Ya.; <u>VEBRA, A.I.</u>; POZHELA, Yu.K.; REPSHAS, K.K. [Repsas, K.]; SHILAL'NIKAS, V.I. [Silalnikas, V.] Heating of the current carriers in semiconductors in strong electric fields. Radiotekh. i elektron. 7 no.9:1519-1522 S '62. (MIRA 15:9)

1. Institut fiziki i matematiki AN Litovskoy SSR. (Electric fields) (Semiconductors)

APPROVED FOR RELEASE: 08/31/2001

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STYRO, B.1. [Styra, B.]; VEBRA, E.I.; OHOPAUSKAS, K.K. [Bopouskon, K.]

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Re Hoadlivity profiles in overcast sir. Trudy All lit.53R. Ser. B. no.1:3-9 *64 (MIRA 17:7)

1. Institut geologii 1 geografii AH Litovskoy CSR.

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STYRO, B.I.; VEBRA, E.I.; SHOPAUSKAS, K.K.; KHUNDZHUA, T.G.

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Coagulation of radioactive aerosols with cloud droplets. Soob. AN Gruz, SSR 33 no.1:61-67 Ju '64. (MIRA 17:7)

1. Institut geofiziki AN Gruzinskoy SSR. Predstavleno chlenom korrespondentom akade. ii M.M. Miriashvili.

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ACCESSION NR: AP4031103	\$/0236/64/000/001/0003/0009
AUTHOR: Sty*ro, B.I.; Vebra,	E.I.; Shopauskas, K.K.
TITLE: The radioactivity pro	file in clouded air
SOURCE: AN LitSSR. Trudy*. S	eriya B, no. 1, 1964. 3-9
TOPIC TAGS: radioactivity, di cloud , radon decomposition,	l tribution in air, distribution in coagulation coefficient
ABSTRACT: The distribution of was studied and the profile of coagulation coefficient and of Measurements were made of the outside clouds by probing fro radioactivity profiles were of radioactivity in cloudy air t value never decreases to zero vity concentration in the cloud radioactivity is closely conni- teristics of clouds and	Fradioactivity in the air in a cloud obtained was associated with the other structural elements of the cloud. radioactivity in the air inside and m aircraft; and a series of experimental btained. There is significantly less han outside the cloud zone, but the , and the variation of the radioacti- ud is insignificant. This residual ected with the microphysical charac- is on the magnitude of the coefficient ets with radioactive aerosols. Thus

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ACCESSION NR: AP403110	3	1999 - Standard Barrier, 1990 - Standard Barri
ASSOCIATION: Institut geo (Institute of Geology and Ge	ologii i geographii, akademii nauk Lit ography, Academy of Sciences,Lithu	ovskoy SSR anian SSR)
SUBMITTED: 20Jul63		ENCL: 00
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Card 3/3		

CIA-RDP86-00513R001859220003-1

ACCESSION NR: AP4018352

S/0251/64/033/001/0061/0067

AUTHORS: Sty*ro, B. I.; Vebra, E. I.; Shopauskas, K. K.; Khundzhua, T. G.

TITLE: On the coagulation of radioactive aerosols with cloud drops (Presented by A. M. Hirianashvili, corresponding member of the Academy on May 12, 1963)

SOURCE: AN GruzSSR. Soobshcheniya, v. 33, no. 1, 1964, 61-67

TOPIC TAGS: radioactive aerosol, cloud drop, coagulation coofficient, filtering system D2 03 27 v, nuclear emulsion A 2, microscope system MBI 2, turbulent mixing,

ABSTRACT: A new experimental method is presented for determining the coagulation of radioactive aerosols with cloud drops. For measuring the radioactivity in the atmosphere an intake nozzle was installed above the overhead port of an aircraft at a distance of 0.5 m from the fuselage along the direction of motion of the aircraft. The air was filtered by a D-2-03-27v system, using fiber filters. The system was so designed that the drops could not porcolate into the filter (this was checked by using orythrozone). During the test flight 1 cubic meter of air was inducted in 6 minutes. The filter was then removed and brought in contact with nuclear photoemulsion of type A-2. After 20 hours of exposure, the system

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Orig. art.	has: 3 fig	gures, 1 tab	le, and 7 for	nulas.	, public vo	CO I CO E MILINOS
ASSOCIATIO	N: Akademiy	za nauk Gruz	inskoy SSR, In	nstitut øe	ofiziki (Academy of
Sciences G	eorgian SSR,	Institute	of Geophysics)		·
SUBMITTED :	12May63		DATE ACQ:	19Mar6h	•.	ENCL: O
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STYRO, B.I.; VEBRA, E.Yu.; SHOPAUSKAS, K.K.

Some physical characteristics of hot alpha-radicactive aerosols. Atom. energ. 16 no.6:528-530 Je 164. (MIRA 17:7)

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<u>3106-66</u> EWT(1)/ENT(m)/FCC/EWA(h) GS/GM CCESSION NR: AT5023938 UR/0000/65/000/000/0207/02	16
TTLE: Radioactivity, sizes, and composition of α -radiating aerosols	18
OURCE: <u>Nauchnaya konferentsiya po yadernoy meteorologii. Obninsk, 1964</u> . Ra ktivnyye izotopy v atmosfere i ikh ispol'zovaniye v meteorologii (Radioactive sotopes in the atmosphere and their use in meteorology); doklady konferentsi	adio- e
OSCOW, Atomizdat, 1965, 207-216 OPIC TAGS: nuclear meteorology, micrometeorology, atmospheric pollution, rad active aerosol, hot particle, atmospheric boundary layer, temperature inversion	d <u>10-</u>
ABSTRACT: Basically, this paper is an elaboration of an earlier study of atm	ospheric
samples originally collected at altitudes of $0-2$ km over the vinitus area (in published in Atomnaya energiya, no. 16, 1964), in which 20 α -radiating aeroso is unitable back been discovered. Reexamination of these samples revealed the p	1 resence
of 42 additional particles of this type. These particles and one particle di in studying the radioactive fogs of 19 October 1963 were examined by micropho graphic techniques to determine the sizes, composition, and degree of radioac Drig. art. has: 5 figures and 1 table.	to-
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ACC NR: AP6034790	SOURCE CODE: UR/0251/66/043/002/0327/0334
WTHORS: Styro, B. I.; Vebra, E. Y	u.; Shopauskas, K. K.; Khundzhua, T. G.
DRG: Institute of Geophysics, Acad Ikademiya nauk Gruzinskoy SSR)	lemy of Sciences Georgian SSR (Institut geofiziki
NITLE: On the problem of determini vertical concentration profiles of	ng the coefficient of turbulent diffusion along radon decay products
OURCE: AN GruzSSR. Soobshcheniya,	v. 45, no. 2, 1966, 327-334
COPIC TAGS: atmospheric diffusion, alpha particle, nuclear emulsion, a KaK-12 aircraft	radon, free atmosphere, atmospheric turbulence, aircraft/ A-2 nuclear emulsion, LI-2 aircraft,
the free atmosphere is described. the vertical distribution of the co is determined by solving a system o	For determining K along radioactivity profiles in For a layer of free atmosphere, it is assumed that oncentration of the i-th element of the radon chain of differential equations
$\frac{d}{dz}$	$\frac{K_s \frac{dN_1}{dz}}{K_s \frac{dN_i}{dz}} - \lambda_i N_i = 0,$
$\frac{d}{dz}$	$K_s \frac{dN_i}{dz} - \lambda_i N_i + \lambda_{i-1} N_{i-1} = 0.$
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CIA-RDP86-00513R001859220003-1

STYRO, B.I.; VEBRA, E.Yu.; SHOPAUSKAS, K.K.

Determination of some parameters of the removel of natural radioactive aerosols from the air. Izv. AN SSSR. Fiz. atm. i okeana 1 no.12:1299-1309 D '65. (MIRA 19:1)

1. Submitted June 12, 1965.

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WTHORS:	Sty*ro,	B. I.; V	ebra, E. Y	u.; Shopaus	skas, K. K.		
NITLE: On ol partic	some p	hysical cl	haracteris	tics of ho	t Alpha-acti	ve aero-	
OURCE: A	tomnaya	energiya	, v. 16, r	10. 6, 1964	, 52 8- 530		•
OPIC TAGS	: aero	sol, fall	out, alpha	contamina	tion, radon,	neptunium	
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pa	rticles are	not uni	form and	l consist	of isot	topes suc	$h as U^{233}$, U ²³⁰ ,
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L 188 99-66 ENT(1)/ENT(=)/FCC/ENA(=) GN ACL NR: AF6011119 SOURCE CODE: UR/0362/65/001/012/1299/130	9
AUTHOR: <u>Styro, B. I</u> Styra, B. J.; <u>Vebra, E. YuVebra, E. J.; Shopauskas, K. K.</u> ORG: none TITLE: Determination of some parameters of removal of natural radioactive aerosols from the air SOURCE: AN SSSR. Izvestiya. Fizika atmosfery i okeana, v. 1, no. 12, 1965, 1299- 1309 TOPIC TAGS: atmospheric radioactivity, atmospheric cloud, gas filter, radioactive	9
aerosol ABSTRACT: The authors describe a method for measuring the radioactivity of air in the free atmosphere and within <u>cloud systems</u> by its filtration through porous filters and the screening of drops. The actual method was described in a previous paper by the author (Tr. AN LitSSR, Seriya B, 1(36), 1964). The authors have developed the theory of the experiment and derived formulas for computing the parameter of nonradioactive re- moval Λ of radioactive aerosols in cloud droplets. Two methods are pro- posed for determining Λ : on the basis of the profile of the concentra- tion of radioactive substances in the air in a cloud and outside it and on the basis of disruption of radioactive equilibrium between the daughter	
products of radon decay in the cloud zone. On the basis of A and data in the literature on the drop concentration in a cloud the authors have computed the value of the coagulation coefficient K of radioactive Cord 1/2 UDC: 551.510.721	2

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From the history of the development in Russia of the electromagnetic theory of light (works of D.A.Gol'dgammer). Nauch. trudy Tul.gor.inst. no.3:180-193 '61. (MIRA 16:4) (Electromagnetic theory)

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ACC NR. AP603477	22 (A) SOURCE CODE: UR/0362/66/002/010/1055/1063
AUTHOR: Styro,	B. I.; Vebrene, B. K.
ORG: none	•
TITLE: Prelimina of particles of p	ary results and methods of measuring radioactivity precipitation
SOURCE: AN SSSR no. 10, 1966, 10	
TOPIC TAGS: rad	ioactivity, meteorology , evaporation rate, particle , in, anow, relieaction fellow, atmospheric reliouctivity
activity of rain steel plates or with an emulsion	article describes the method of measuring the radio- drops and snowflakes by capturing them on polished chromatographic filter paper with subsequent contact . The number of nonradioactive raindrops during a based on a computed measurement angle of 2m was found
activity of indi- the rate of incr	0-40% of the total number of raindrops. The radio- vidual raindrops generally increases with size with ease leveling off. It is shown that the specific raindrops increases exponentially with decreasing
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THE REPORT OF TH

LAZAROIU, D.F., ing.; UDRESCU, Petre; VECAS, Alexandru; RADU, Emilia; CARA-CASIAN, E., ing.; BANDI, Fr.; TAIGAR, S., ing.

Present problems on establishing labor norms. Probleme econ 17 no.7: 151-156 J1 '64.

1. Direktor, "Electronica" Plant, Bucharest (for Lazaroiu). 2. Director, Iprofil Bucharest (for Udrescu). 3. Head of the Department of Labor Organization, Iprofil Bucharest (for Vecas). 4. Director, "Rascoala din 1907" Textile Enterprise, Bucharest (for Radu). 5. Chief Engineer, "Rascoala din 1907" Textile Enterprise, Bucharest (for Caracasian). 6. Director, "Bucuresti" Glass Factory (for Bandi). 7. Chairman of the State Committee for Labor and Wage Problems (for Taigar).

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CIA-RDP86-00513R001859220003-1"



VECEK, B.; VOSTATEK, M.

Carbon dioride. Zvaranie 12 no.1:11-13 Ja '63.

1. Technoplyn, n.p., Praha (for Vecek). 2. Vychodoceske chemicke zavody Synthesia, n.p., Pardubice - Semtin (for Vostatek).

全社会学生生活的编辑编辑

36次的26多多的1991年25多平波平均4个。2×11月,11日

VECERA, M.; JURECEK, M.

"Identification of organic substances. III. Studies on alkyl thiuronium salts", P. 722., (CHEMICKE LISTY, Vol. 46, No. 12, Dec. 1952, Praha, Czechoslovakia)

30: Monthly List of East European Accessions, (EEAL) LC, Vol. 4, No. 6, June 1955, Uncl.

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111

The action of the Grignard agenia on the anide group. XVIII. Isomeriam of pyrrolines. <u>Rudolf Lutter and Mirc.</u> XVIII. Isomeriam of pyrrolines. <u>Rudolf Lutter and Mirc.</u> Isomeriam of the Grignard agenia on the anide group. Isomeria <u>Action (Vesika Rola chem.)</u> Frague, Crech.). <u>Chem.</u> Grin and reagents and 1-methyl-2 alkyl-5-pyrrolidinoma. The 3rd possible isomer of 1,2-clinnthyl-5-atkyl-5-pyrrolidinoma. The 3rd possible isomer of 1,2-clinnthyl-5-atkyl-5-pyrrolidinoma. The 3rd possible isomer of 1,2-clinnthyl-5 atkyl-5-pyrrolidinoma. In and AcOII. The pyrrolines were characterired as per-Zu and AcOII. The pyrrolidinome in 100 ml. EtHO started mole 1,2-dimethyl-5-pyrrolidinome in 100 ml. EtHO started mole 1,2-dimethyl-5-pyrrolidinome in 100 ml. EtHO started the liberated bases were ateam distd., the distillate was neutralized with 65 ml. N IICI, the soln, evapal. to a simp in tacna, the residue treated with 9.1 g. NaCIO, in 15 ml. H₁O giving 5.3 g. HCIO, salt of 1,2-5-trimethyl-2-pyrroline EtOII acddfied with HCI). From the mother liquors after EtOII acddfied with HCI). From the mother liquors, after EtOII acddfied with HCI). From the mother liquors, after EtOII acddfied with HCI). From the mother liquors, after EtOII acidide with 45 metates of 1 was isolated, 1,2,2,5-the separ. of the perchlorate of 1 was isolated, 1,2,2,5-the separ. of the perchlorate of 1 was isolated, 1,2,2,5-the MgBir gave 38 g. of the 1,5-dimethyl-3-chyl-3-chyl-3-pyrroline EtOII). Similarly 34 g. 1,2-dimethyl-3-chyl-3-chyl-3-pyrroline EtoH). Similarly 34 g. 1,2-dimethyl-3-chyl-3-chyl-3-pyrroline

HClO, m. 223 4°; free base (11), Ill-grated firth the HClO; solt, b.o. 69-101° (in H etrean), dr 0.5.23, nS 1.4755; solt, b.o. 69-101° (in H etrean), dr 0.5.23, nS 1.4755; solt, b.o. 69-101° (in H etrean), dr 0.5.23, nS 1.4755; m. 83° (from EtOH). 1.5-01nethyl-2.3-divthylpyrrolidine, m. 83° (from EtOH). 1.5-01nethyl-2.3-divthylpyrrolidine, m. 83° (from EtOH). 1.5-01nethyl-2.3-divthylpyrrolidine, m. 83° (from HeO); *HADO*, from the mother picate, m. 142-25.5° (from H4O); *HADO*, *L*.2-Dimethyl-5-Dimethyl-2.3-divthylpyrrolidine and PMRPr gave 1.5-dimethyl-2.2-diprophylpyrrolidine, from the mother liquids; *HADO*, *all*, m. 117-18° (from BtO1:), *binary* pyrrolidinore and PrMRPr gave 1.5-dimethyl-2-proph-2-ipyrrolidine, from the mother liquids; *HADO*, *all*, m. 117-20,5°. The normal method urs, gave a picrate, m. 110-20,5°. The normal method urs, gave a picrate, m. 110-20,5°. The normal method urs, gave a picrate, m. 110-20,5°. The normal method urs, gave a picrate, m. 110-20,5°. The normal method urs, gave a picrate, m. 110-20,5°. The normal method urs, gave a picrate, m. 110-20,5°. The normal method urs, gave a birate, m. 110-20,5°. The normal method urs, gave a birate, m. 110-20,5°. The normal method urs, gave a birate, m. 110-20,5°. The normal method urs, gave a birate, m. 110-20,5°. The normal method urs, gave a birate, m. 110-20,5°. The normal method urs, gave a birate, m. 110-20,5°. The normal method urs, gave a birate, m. 110-20,5°. The normal method urs, gave a birate, m. 110-20,5°. The normal method urs, gave a birate, m. 110-20,5°. The normal method urs, gave a birate, m. 110-20,5°. The normal method urs, gave a birate changed. LMethyl-2-ethyl-5-pirolidino (0.15 mole) in 100 ml. EtG dropped into a pirrolidino (0.15 mole) in 200 ml. EtG, the mit. boiled 2 brs., decompt. with lec, addified with HCl, the billed 2 brs., decompt. With 100 ml. N HCl, expad, in parao, illate neutralized with 100 ml. N HCl, expad, in parao, illate neutralized with 100 ml. N HCl, expad, in parao, illate neutralized w

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RudolF **Kudbl** Lukkes dichyl-2-pyrroline(IV); prechlorale, m. 127-8°; H₁PiCh, till, m. 194° (decompn.). The binary picrate (C.H.B.O.N.Na) (IVa) of IV was prepd. 1-Methyl-3,2,5-triethylpyrelidine (from the mother liquors) picrate m. 95-6°. 1-Methyl-2-ethyl-5-pyrrolidinone and PrMgflr gave only a small ant. iof 1-methyl-5-ethyl-2,2-dipolythyrolidine; picrate, m. 123-8.5°. 1-Methyl-2-ethyl-6-pyrrolidinone and PbMgflr gave perchlorate of 1-methyl-5-ethyl-2-pyrroline-INCIO, m. 138°; picrate, m. 22° (from dil. EtOH). 1-Methyl-2-phenyl-5-pyrrolidinone and BtMgflr gave 1-methyl-3-ethyl-5-ethylpyrolidine; picrate m. 124-5°. 1,2-Dimethyl-5-ethylpyrolide (8.8 g.) was reduced with 10 g. Zn in 30 ml. H₂O to which HCl was added gridually; steam distn. and treatment of the distillate with.10 g. Na picrate gave the normal picrate, m. 147-8° (from EtOH), and binary picrate, m. 180-7° (from EtOH), of 1,2-dimethyl-5-ethyl-3-pyroline; free bare, ba 45-50°, dra 0.8101, n49 1.4570; perchlorate, an 216°; HiPiCl, sult, m. 173° (de-compn.). Similar reduction of 1-methyl-2-binyl-fre-rate, m. 185°, giving no depression with IVa. Also in (4-bettion Czecholov. Chem. Communs. 19, 263-71(1954) in M. Hudikky.-Kes Germon). **小学的科学和学生** Ч,

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LUKES, R.; VECERA, M.
Effect of Grignard reagents on the amide group. Part 18. Isomery of pyrroline [in German with summary in Russian]. Sbor. Chekh.khim.rab. (MIRA 7:6)
19 no.2:263-274 Ap '54.
1. Institut obshchey eksperimental'noy organicheskoy khimii Prashskogo Politekhnicheskogo instituta. (Grignard reagents) (Pyrroline) (Isomerism)

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VECERA, M.; JULICER, M.

"全国和公司"和中国的

Identification of Organic Compounds. II. Alkylthiuronium Salts. p. 77, (COLLEGTION OF CZECHOLOVAK CHEIICAL COLLUMICATIONS. SBORLIK CHERHOLOVAT-SKIKH KHIMICHESKIKH RABOF, Vol. 19, No. 1, Feb. 1954, Praha, Czechoslovakia)

<u> STREET ALL AND A</u>

SU: Monthly List of East European Accessions, (ETAL), LC, Vol. 4 No. 5, May 1955, Uncl.

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VECERA, M.; LUKES, R.

"Effect of Grignard Reagents on the Amide group.XVIII. Isomery of Pyrroline." p. 263. (COLLECTION OF CZECHOBLOWAK CHEMICAL COMMUNICATIONS. SBORNIK CHEKHOSLOVATSKIKH KHEMICHESKIKH RABOT. Vol. 19, No. 2, Apr. 195h; Praha, Czech.)

So: Monthly List of East European Accessions, (E.AL), LC, Vol. 4, No. 4, April 1955, Uncl..

APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R001859220003-1

VECEKA, M. المرجع والمتحد والمعادي الا Chromatography of dys Intermedietcs. III. Identifica-flon and separation of anthraouinontsulfonic scides by paper chromatography. Mirosluv Veccia JHI Cassparlé, and IHI Borecký (Výckunna-vister off. syn. Pardublee-Byhlizh Czech.). Chem. Listy 40, 700 B(1955); cf. 40, 6106.—Identification of isomeric anthraouinonesulfonic and -disulfonic neids, tests for purity of tech. products, and the course of the sulfonation processes are possible by means of chromatography on paper (Whatman no. 4) with HuOHI-NH,OH-H-Q 2:11 (1) or BuOH-C.H.N-H.O 3:111 (II) as solvents. Detection was carried out by fluorescence in ultraviolet light. R, values in systems I and II at 21° are given for the following anthraouinonesulfonic and-disulfonic scids: 1 (0.65, 0.57); 2, (0.75, 0.72); 1,5 (0.04, 0.07); 1,6 (0.09, 0.15); 1,7 (0.14, 0.19); 1,8 (0.20, 0.35); 2,6 (0.19, 0.29), 2,7 (0.19, 0.29). CZECH \$¹ N - CATESNIER STATES **斯坦日**日金玉

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CIA-RDP86-00513R001859220003-1 "APPROVED FOR RELEASE: 08/31/2001 THE PERSON AND A CONTRACT OF A CONTRACT. · VECERATION. Czechoslovakia/Analytical Chemistry - Analysis of Organic Substances, G-3 Abst Journal: Referat Zhur - Khimiya, No 1, 1957, 1280 Author: Vecera, M., and Petranek, J. Institution: None Title: Identification of Organic Substances. X. Identification of Sulfides Chem. listy, 1956, Vol 50, No 2, 240-245 (published in Czech); Sb. Original chekhosl. khim. rabot, 1956, Vol 21, No 4, 912-919 (published in Periodical: German with a summary in Russian) Abstract: During the investigation of the derivatives of thioethers, the properties of the sulfylimines (I) prepared by the reaction of organic sulfides (II) with the sodium salt of N-chloro-p-toluenesulfonamide (chloramine T) (III). The effect of the solvent and reaction time on the yield was studied with the type-substances, dibutylsulfide and dibenzylsulfide (IV). The greatest yields of I (75-87%) were achieved as follows: 0.005 M solutions of II and III are mixed in 10 ml CH₃OH, the solvent is distilled off, and the residue washed with 5 ml of Card 1/3日本市 计自己分析中的问题 经公司合

APPROVED FOR RELEASE: 08/31/2001

Czechoslovakia/Analytical Chemistry - Analysis of Organic Substances, G-3

Abst Journal: Referat Zhur - Khimiya, No 1, 1957, 1280

Abstract: 2 N NaOH and 20 ml of water. The product is dissolved in 10 ml toluene over a water bath, filtered, and cyclohexane is added until the solution becomes turbid, after which it is allowed to stand for crystallization. Dibencylaulfoxide and p-toluenesulfonamide are formed as side products during the reaction of IV with III. Compounds of I have also been prepared from the following II (the melting point and eutectic point (EP) with standard substances such as acetanilide (V), benzil (VI), phenacetin (VII) and cyanoguanidine (VIII), and the index of refraction of molten I (L. Kofler and A. Kofler, Mikromethoden zur Kennzeichnung organischer Stoffe und Stoffgemische, Innabruck, Universitaetsverleg wagner, 1948) are given). For the determination of the eutectic point the substances were mixed in the ratio 1:1. Dimethylsulfide, mp 158.5-159°, EP with VII 106°, n182-188° D 1.5309; methyl-ethyl, mp 131.5-132.5°, EP with VII 106°, n186-158° D 1.5309; diethyl, mp 144.5-145.5°, EP with VII 109°, n165-167° D 1.5217; methyl-n-propyl, mp 104-105°, EP with VII 109°, n165-167° D 1.5217; methyl-n-propyl, mp 104-105°, EP with VII 109°, n165-167° D 1.5217; D 1.5309; methyl-isopropyl, mp 114-115.5°, EP with V 77°, n135-138° D 1.5309; methyl-n-butyl, mp 87-88°, EP with VI 68°, n195-107° D 1.5309; methyl-n-butyl, mp 120-121°, EP with V 168°, n195-107°

Card 2/3

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CIA-RDP86-00513R001859220003-1"

Czechoslovakia/Analytical Chemistry - Analysis of Organio Substances, 6-5
Abst Journal: Referat Zhur - Khimiya, No 1, 1957, 1280
Abstract: D 1.5217; ethyl-n-propyl, mp 104-105°, EP with VI 78°, EP with V 75°, n140-144° D 1.5309; ethylisopropyl, mp 115.5-117,5°, EP with V 75°, n140-141° D 1.5217; athyl-n-butyl, mp 87-88°, EP with V 63°, EP with V 70°, n120-122° D 1.5217; athyl-n-butyl, mp 168-109°, EP with V 72°, n120-123° D 1.5217; n-propylisopropyl, mp 117.5-108°, EP with V 72°, n122-123° D 1.5217; n-propylisopropyl, mp 107-108°, EP with V 72°, n123.5-134.5° D 1.5217; propylisopropyl, mp 107-108°, EP with V 76°, n132.5-134.5° D 1.5217; stopropylisobutyl, mp 90-100°, EP with V 76°, n132.5-134.5° D 1.5217; mpropylisobutyl, mp 09-100°, EP with V 76°, n132.5-134.5° D 1.5217; more not stop 1.5217; discoveryl, mp 102-123° D 1.5217; discoveryl, mp 102-123° D 1.5217; discoveryl, mp 102-123° D 1.5217; discoveryl, mp 102-103°, EP with VI 73°, EP with VI 70°, n103.5-110° D 1.5217; discoveryl, mp 102-103°, mp 96-97°, EP with VI 71.5°, EP with V 76°, n120-123° D 1.5217; discoveryl, mp 102-103° D 1.5217; discoveryl, mp 103.5-110° D 1.5217; discoveryl, mp 103.5-110° D 1.5217; discoveryl, mp 133.5-134.5°, EP with VI 61°, n100-102° D 1.5217; discoveryl, mp 133.5-134.5°, EP with VI 105°, n124-114° D 1.5151; pentamethylene, mp 148.5-149°, EP with VII 105°, n122-114° D 1.5151; pentamethylene, mp 148.5-149°, EP with VII 100°, n122-174° D 1.5427; diberzyl, mp 192-193°, EP with VIII 168°, n220-222° D 1.5309.

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CIA-RDP86-00513R001859220003-1

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VECERA, M. - Identification of organic substances. X. Identification of sulfides. p. 240, Vol. 59, no. 2, Feb. 1956 CHEMICKE LISTY (Ceskoslovensak amadenie ved. Chemicky ustav) Praha, Czech.

SOURCE: East European Accessions List (EEAL) Vol 6 No 4 April 1957

245 F 12-57

APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R001859220003-1"

ZECHOSLOV	AKIA/Analytical Chemistry - Analysis of Organic G-3 Substances
bs Jour	: Referat Zhur - Khimiya, No 2, 1957, 4830
uthor litle	: <u>Vecera, M.</u> : Organic Quantitative Analysis. VI. Micro-Determination of Sulfur in Organic Substances
)rig Pub	: Chem. listy, 1956, 50, No 2, 308-311
Abstract	: The previously described method (RZhKhim, 1955, 2305, 49236) has been improved. Use of a quartz combustion tube (Grote W., Krekeler H., Angew. Chemie, 1933, 46, 106) with a quartz partition and two porous plates (temperature 700-750°) in lieu of a Pt catalyst, increa- ses substantially the speed of determination, since the rate of O_2 feed can be raised to 10-30 ml/minute, and at the same time combustion is complete with all types of substances and takes place evenly. Absorption of the oxides of sulfur is quantitative over the temperature
Card $1/3$	- 52 -

"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001859220003-1 異体的設定する。我的研究的なくてきていている CZECHOSLOVAKIA/Analytical Chemistry - Analysis of Organic G-3 Substances : Referat Zhur - Khimiya, No 2, 1957, 4830 Abs Jour alum as an indicator, and with Complexon III. Ag wool also absorbs the halogens which may have a detrimental effect. It is recommended to replace a portion of Ag wool by fresh one after 5 analyses of substances containing helogens. Average error of determination is 0.15, mean quadratic error is 0.19. Communication V, see RZhKhim, 1956, 68776. - 54 -Card 3/3

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 \sqrt{ccccPP} 1 a 1857 Organio unantitative moders: VIII. Micro-estimation of sulphum in organic compositer. ********** -----30 States and second second second second to the prist solution time dense 26 more during 4.3 kg dm, combastion time dense 26 more during the only ender the oxygen stream 10 to 20 mil (enderse). ALT ANT

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CIA-RDP86-00513R001859220003-1

THE REPORT OF THE PARTY OF THE 的情况的法律的情况的问题 Vecern, Mirestni Separation and identification of the rearrangement prod-ucts of hydrazobenzene. Miroslav Večeta, Jiti Gasparić, and Jarômir Petranck (Výzkumitý úslav org. svnitics, Pardubicé-Rybitvi, Czech.). Chem. hsty 51, 1600-2 Pardubicé-Rybitvi, Czech.). Chem. hsty 51, 1600-2 (1957); cf. C.A. 51, 14691b .--(Pk:NH) (1.5 g.) mixed with 30 g. dry sea sand, exposed 72 hrs. to a stream of dry HCl, 30 g. dry sea sand, exposed 72 hrs. to a stream of dry HCl, 30 g. dry sea sand, exposed 72 hrs. to a stream of dry HCl, 30 g. dry sea sand, exposed 72 hrs. to a stream of dry HCl, 30 g. dry sea sand, exposed 72 hrs. to a stream of dry HCl, 30 g. dry sea sand, exposed 72 hrs. to a stream of dry HCl, 30 g. dry sea sand, exposed 72 hrs. to a stream of dry HCl, 30 g. dry sea sand, exposed 72 hrs. to a stream of dry HCl, 30 g. dry sea sand, exposed 72 hrs. to a stream of dry HCl, 50 mixed with 75 ml. C.H. and chromatographed on AhO, gave 80% of the following bases identified as the Bz derivs. (m.p., mp): benzi-dine, m. 308°, --; diphenyline, m. 280-2°, n^{35-4} 1.5675, diff. m. 191-1.5°, n^{32-4} 1.5714; osemidine, m. 135-6°, n^{15} 1.6004; and p-semidine, m. 166°, n^{15-4} 1.6111. The mutual ratio of the bases was 1:1.25:1.08:-1.6111. The mutual ratio of the bases was 1:1.25:1.08:-0.84:0.09, resp. In addn., PhNH, and (PhN:), were found among the rearrangement products. M. Hudlický 2 Mary HE 3d HE 2c(j) $\|$ Pnu 3.443

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¹ Identification of organic confpounds. XXIV. Separation and identification of sulfides by <u>paper</u> chromatography. 7 <u>Jaromir Petrânek and Miroslav Vectra (Výzk. ústav org.</u> <u>synth.</u>, Pardubice-Ryhivi, Czechoslov.). Chem. Ijity 52, <u>synth.</u>, Pardubice-Ryhivi, Czechoslov.). Chem. June sept. and identified in the form of the *p-nitrobenzensulfonyl-sulfilimines* (I) on paper impregnated with HCONH, using CH, or CH-cyclohexane as the moving phase. *p*-O₃NC₆H₅O₂NH₃ (5 g.) is dissolved in 1 g. NaOH in 10 ml. H₄O, the soln. cooled to 10° and, before the sulfonamide Na salt begins to sep., 17 ml. cool NaOCI soln. added (contg. 1.95 g. NaOCI and prepd. by passing 7 g. Cl into 8 g. NaOH in 10 ml. H₅O and 30 g. ice). The *p-nitrobenzensulfochoro-amide Na salt* (II) is filtered off and recrystd. from 5-6 ml. H₅O to yield 6 g. yellow crystals contg. 23.5-5.3% active Cl and forming in H₅O and EtOH intensely yellow colored solns. II (200 mg.) in 6 ml. MeOH is added to 0.5 milli-mole sulfide in 2 ml. MeOH, the mixt. allowed to stand 16 min., dild. with 20 ml. H₅O, treated with 10 ml. 2N NaOH, extd. with CHCh, the ext. (contg. 1-10 µg. I) chromato-graphed on Whatman No. 4 impregnated with 10% HCO-NH₄ in EtOH, the chromatogram sprayed with a freshly prepd. soln. of 0.7 g. SnCh, in 100 ml. 15% aq. HCl. and the spots detected (in a 30 min. interval) by spraying with 1% *p*-MeNCH₄CHO in EtOH contg. 5% aq. HCl. I form yellow spots. The following *R*, values of the *p*-ONCC¹. SO₃N:SRR' were found in C.H₄. 3:2 CH₄: cyclosezane, and 1:1 CH₄-cyclobezane, resp., (R, R', *R*, values given): Me. Mc. 0.08, 0.02, -; Me. Et, 0.23, 0.11; Pr. Pr. 0.73, CU)

Ψ,

XXV. Identification and separation of aliphatic C₁-C₁. alcohols/ by paper chromatography. Jiii Borecký, Jiii Gasparić, and Miroslav Večeta. Ibid. 1283-8.—Aliphatic C₁-C₁, alcs. and some cyclanols/were successfully chromato-graphed as 3,5-dinitrobenzoates on Whatman No. 3 impreg-nuted with 10% paraffin oil in cyclohexane. New systems of solvents contg. HCONH₃(1) and HCONMe₅(II) were used as the mobile phase. For preliminary information is rec-ommended the system 16:4:4 II-MeOH-H₁O where C₁-C₄ alcs. are in the front and C₁- μ alcs. near the start. The following systems are suitable for given alcs.: 30:701-H₁O, C₁-C₁; 50:50 I-H₁O, C₂-C₂; 70:30 I-H₂O, cyclanols C₈-C₅; 10:10:T II-MeOH-H₁O, C₁-C₂, 70:30 I-H₂O, cyclanols C₈-C₅; 10:10:T II-MeOH-H₁O, Cholesterol. The 3,5-dinitrobenzoates are prepd. by dissolving 0.1 g. alc. in 1 ml. C₆H₆, adding 0.5 g. 3,5-(O₃N),C₆H₅COCt in 3 ml. C₆H₈ and 1 ml. pyridine, heating 30 min. on a steam bath, letting cool, extg. with 50% KOH with addn. cf H₄O to achieve a quick sepn. of the layers, washing the C₄H₆ ext. with portions H₂O, 1:1 HCl, and H₂O, and drying with Na₂SO₄. The C₄H₆ soln. is used directly for chromatography. The method is also suitable for sepn. and identification of higher fatty alcs. used in the textile manuf. manuf. Distr: 4E2c(j)

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	Rearrangement of aromatic hydrazo con Večeřa (Výzk. ústav. org. synth., – Czech.). Chem. listy 52, 1373–408(195 review in 19 chapters with 102 references.	npounds. <u>Miroslav</u> Pardubice-Rybitvi,		
	Czech.). Chem. listy 52, 1373-408(195 review in 19 chapters with 102 references.	58).—An extensive <u>I.P.</u>	3 2-May	
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K-4 CZECHOSLOVAKIA/Optics - Optical Technology Abs Jour : Ref Zhur - Fizika, No 9, 1958, No 21405 : Vecera M. Author : Not Givon Inst : Chronological Study of Anemouphotes Title Orig Pub : Jomna moch. a opt., 1957, 2, No 3, 75-78 Abstract : The author examines the properties of surface systems of enemorphote fittings and investigates in particular the dependence of the engular megnification on the angle of incidonce of the ray and on the angle of the prism. A graphic nothodis proposed for detormination of optimum angle between the prisms. The condition of parallolnoss is examined, and the dependence of the coefficient of enemorphotes on the angle of field of view is given. : 1/1 Card 57

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Convention of analytic chemists in Gottwaldov.

p. 85 (Chemicky Prumysl. Vol. 7, no. 2, Feb. 1957, Frahr, Cwecheslovskia)

Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 2, February 1958

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VECERA, M.; SNOBL, D.

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"Organic quantitative analysis. VIII. Microdetermination of sulfur in organic compounds. Mechanism of the formation of silver sulfate. In German."

p. 986 (Collection of Czechoslovak Chemical Communications. Sbornik Chekhoslovatskikh Khimicheskikh Rabot.) Vol. 22, no. 3, June 1957. Prague, Czechoslovakia

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4, April 1958

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CIA-RDP86-00513R001859220003-1

CZECHOSLOVAKIA/Analytical Chemistry - Analysis of Organic Substances.

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Abs Jour : Ref Zhur - Khimiya, No 8, 1958, 24904

the form of solutions of their 2.4-dinitrophenyl hydrazones (DPH) in benzene, chloroform, alcohol or I. The chromatograms are developed with cyclohexane (II) saturated with I. After volatilization of II the chromatogram is sprayed with a 1% solution of NaOH in alcohol; DPH become apparent as brown, red or blue spots. It is possible to identify 1-5 micrograms DPH. $R_{\rm f}$ increases with the number of C-atoms in the n-chain; A and K with straight and branched chains have same $R_{\rm f}$ with equal n. The presence of double bonds and OH-groups lowers $R_{\rm f}$. Part XII see RZhKhim. 1958, 14240.

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CZECHOSLOVAKIA / Analytical Chemistry. Analysis of Organic Substancos.

Abs Jour : Ref Zhur - Khim., No 10, 1958, No 32229

tic absorption curves in the visible spectrum range, which permits to detect V first of all, as well as IV by an indirect method. The absorption spectre in the ultraviolet range permit to identify I, II and III as bases and chlorohydrates in solutions. The powder x-rey pictures of I, II, III, IV and V chlorohydrates and eniline can be used for the identification of these substances. They can be identified also by the polarographic curves of their interaction with HNO₂ diazonium salts of K, II and III, with HNO₂ 1-phenylbenzotriazole salt of IV and with nitrosodiazonium of V. See report XIV in RZhKhim, 1958, 24904.

Cord 2/2

APPROVED FOR RELEASE: 08/31/2001

CZECHCSLOVAKIA/Organic Chemistry Theoretical and General G-1 Questions on Organic Chemistry. Abs Jour: Ref Zhur-Khim., No 13, 1958, 43212. Author : Vecera Miroslav, Petranek Jaromir, Gasparic Jiri. : < Inst: Rearrangement of Substituted Aromatic Hydrazo-Title Compounds. Orig Pub: Chem. listy, 1957, 51, No 5, 911-919; Sb chekhosl. khim. rabot, 1957, 22, No 5, 1603-1612. Abstract: A study of the rearrangement of hydrazo-benzene (I), 2- and 4-methyl-hydrazo-benzene (II, III), 2,2'-and 4,4'-dimethyl-hydrazobenzene (IV, V), 4-acetamidohydrazo-benzene (VI), N-acetyl-hydrazobenzene (VII) and 1,1'-hydrazo-naphthalene (VIII), by action of a solution of HCl in alcohol, or of dry HCl in absence : 1/3 Card 1.1

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CIA-RDP86-00513R001859220003-1"

G-1 Questions on Organic Chemistry. Abs Jour: Ref Zhur-Khim., No 13, 1958, 43212. of a solvent, at about 20° . The rearrangement products (RP) were isolated by paper chromatography, purified by crystallization and also by chromatography on silica gelimpregnated with dimethyl formamide, and were identified by color reactions and fluorescence reactions. Among the RP were found benzidine (IX), diphenylene (X), o-benzidine (XI), o-semidine (XII), p-semidine (XIII), the corresponding azo-compounds (Ia-VIIIa), aniline (XIV). Listing the initial substance and isolated RP: I, IX-XIV, Ia; II, IX-XIII, IIa; III, X-XIII, IIIa; IV, IX-XIII, IVa; V, XI, XII, XIV, Va; VI, XII-XIV, VIA; VII, IX, X; VIII, IX-XIV, VIIIA. Velocity of competing reactions, and proportions of : 2/3 Card 3

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VECERA, M. : BOLECKY, J.

"Identification of organic compounds. XVII. Identification of anthraguinonesulfonic acids."

p. 974 (Institute of Applied Physics - Czechosolovak Academy of Science) Vol. 51, No. 5, May 1957

SO: Monthly Index of East European Accession (EEAI(LC, Vob. 7, No. 5, May 1958

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CIA-RDP86-00513R001859220003-1

CZECHOSLOVAKIA/Analytical Chemistry. Analysis of Organic E-3 Substances. Abs Jour: Ref Zhur-Khim , No 13, 1958, 43082. Author : X. Vecera Miroslay, Bulusek Jaroslav. XI. Synek Ladislav, Vecera Miroslav. Inst : : Organic Quantitative Analysis. X. Micro-Petermination Title of Chlorine and Dromine in Organic Substances. XI. Use of Cobalto-Gobaltic Oxide as Combustion Catalyst in Elementary Analysis. Orig Pub: Chem. listy, 1957, 51, No 8, 1475-1481, 1551-1552; Collct. czechosl. chem communs, 1958, 23, No 2, 257-264, 331-333. Abstract: X. 1-5 mg (determination of Cl) or 4-7 mg (determination of Br) of the substance are used in the combustion : 1/5 Card

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CZECHOSLOVAKIA/Analytical Chemistry. Analysis of Organic Substances.

Abs Jour: Ref Zhur-Khim., No 13, 1958, 43082.

by the modified method of Grote and Krekeler, in a quartz tube 580 mm long and 9 mm inside diameter containing two porous quartz plates, in a current of C_{\perp} at 750°. If the substance contains alkali metal a tenfold amount of $V_{\perp}O_{\perp}$ is added. Liquid substances are weighed in capillaries with NH₁NO₃. Combustion of the substance is effected within 5-15 minutes after which the tube heated for an an additional 5 minutes. The halogen is absorbed as HCl (HBr) in a U-vessel filled with glass beads and containing 5 ml of 5% H₂O₂. For determination of Cl⁻ the solution is neutralized first with 0.1 N and then with 0.01 N solution of methyl

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CZECHCSLCVAKIA/Analytical Chemistry. Analysis of Organic Substances.

Abs Jour: Ref Zhur-Khim., No 13, 1958, 43082.

red and methylene blue 3:1) which has a grey transition shade, 10 nl of freshly neutralized saturated solution of HgO.Hg(CN)₂ are added, and after 1 minute the titration is carried out with 0.01 N H_{λ}SO₄ to the initial gray shade (Viebock F., Ber., 1932, 65, 496). Br is determined by titration of exactly neutralized solution with 0.01 N solution of AgNO3 in the presence of an adsorption indicator (0.1% aqueous solution of Erilliant Yellow) until the yellow-green color changes to orange (RZhKhim, 1955, 46100). A detailed description is given of the selection of optimal conditions of combustion as well as a comparison of the proposed procedure with the

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CZECHOSLOVAKIA/Analytical Chemistry. Analysis of Organic Substances.

Abs Jour: Ref Zhur-Khim., No 13, 1958, 43082.

undergo quantitative combustion at about 600° . Catalytic activity of CojO4 is not decreased by the action of halogens or oxides of sulfur, and therefore the same catalyst filling can be used for several months. Preparation of catalyst: to 15 g asbestos and 10 g Co(NO₃) χ . $6H_{\chi}O$ are added 50 ml water and 5 drops of concentrated NH4OH, after which the mixture is evaporated to dryness and calcined at about 500°. Analyses are carried out in the usual manner. Combustion of 11-15 mg requires only 5-15 minutes. Halogens and oxides of sulfur are absorbed on Ag-wool at 600°, oxides of nitrogen -- on MnO χ . Communication IX see RZhKhim, 1958, 4320.

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Abs Jour : Ref Zhur - Khimiya, No 14, 1958, 46438
adjust the results of H and N determinations.
The method of linear regression is the most suitable statistical method for the evaluation of the accuracy; by that method it is possible not only to describe the accuracy, but also to make apparent the constant and regularly variable errors.
See report XI in RZhKhim, 1958, 43082.
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CIA-RDP86-00513R001859220003-1



VECERA, M. ; PETRANEK, J. ; GASPARIC, J.

"Identification of organic compounds. XVIII. Chromatography of aromatic hydrazo compounds."

p. 1553 (Chemicke Listy, Vol. 51, no. 8, Aug. 1957, Praha, Czechoslovakia.)

Monthly Index of East European Accessions (EEAI) LC, Vol. 7, No.6 June 1958

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CIA-RDP86-00513R001859220003-1"

VECEFA, M. ; CASPARIC, J. ; SFEVAK, A.

"Identification of organic compounds. XIX. Microidentification of the lower aliphatic alcohols, O-alkyl and N-alkyl groups by paper chromatography."

p. 1554 (Chemicke Listy, Vol. 51, no. 8, Aug. 1957, Praha, Czechoslovakia.)

Monthly Index of East European Accessions (ETAI) LC, Vol. 7, No.6 June 1958.

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Ε CZECHOSLOVAKIA / Analytical Chemistry. Analysis of VECERA, M. Organic Substances. Abs Jour: Ref Zhur-Khimiya, 1958, No 20, 67346. Author: : Petranek J., Vecera M. : Organic Quantitative Analysis. XVI. Calorimetrical Determination of Small Quantities of Aldehydes. : Not given. Inst Title Orig Pub: Chem. listy, 1957, 51, No 9, 1686-1689. Abstract: Aldehydes (A) when condensed with resorcinol (I) or with fluoroglycine (II) in concentrated H_2SO_4 or With Lluorogiycine (11) in concentrated n2004 or HCl give very Weak and poorly reproducible colorings. In glacial CH3COOH (III), that con-tains 10-20 vol. % H2SO4, A reacts slowly with I and sufficiently fast with IT even at approx and sufficiently fast with II, even at approx. 20°, resulting in the intensive and stable yellow and orange colorings. Since III should not con-Card 1/3 30

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CZECHOSLOVAKIA / Analytical Chemistry. Analysis of Ε Organic Substances.

Abs Jour: Ref Zhur-Khimiya, 1958, No 20, 67346.

Abstract: tain A, it is being purified by fractionation with 5% II and 5% concentrated H₂SO₄. to 5cc of very dilute solution of A in III, 5cc of III, con-taining 20 vol. % H₂SO₄ is added, the mixture is then cooled to 18-20° followed by the addition of lcc of 1% solution of II in III. After 10-30 minutes, the photometric readings are taken using either dark blue or blue-green filters respectivly. The Bere's low is being observed for the cases when 5cc solutions contain 26.6 - 265.8 f of n-toluene A, 4.2 - 29.9 f vinyline, or 4.1 - 30.6 f of piperonal. The greatest intensity of color de-

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CZECHOSLOVAKIA / Analytical Chemistry. Analysis of Organic Substances.

Abs Jour: Ref Zhur-Khimiya, 1958, No 20, 67346.

Abstract: velops after 10-30 minutes and the color becomes stable after 25-90 minutes. With aliphatic A, II forms a color unstable products. The standard error is $\pm 2.75\%$. Alcohols, carbonic acids and their esters do not interfere, however, in the presence of water the color intencities diminish. This method is applicable in particular for the determination of aromatic A. Some of the latter could be identified by means of spectrophotometrical curves obtained for their respective colored products. For Part XV, refer to Ref. Zhur-Khimiya, 1958, 57232.

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CZECHOSLOVAKIA/Analytic Chemistry. Analysis of Organic Е Substances. Abs Jour: Ref Zhur-Khimiya, No 22, 1958, 73760. Author : Miroslav Vecera, Antonin Spevak. Inst : WRYDAU YGANNA Title : Organic Quantitative Analysis. XVII. Determination of Little Amounts of Chlorine and Bromine in Organic Substances. Orig Pub: Chem. lity, 1957, 51, No 11, 2037-2040. Abstract: A rapid, simple and universal method of determination of little amounts (0.01 to $2\frac{p}{p}$) of Cl and Br in solid and liquid organic substances is proposed. 1 to 15 mg of the substance is burned in a $0_{\tilde{c}}$ flow (15 ml per min.) in a Pt combustion boat or glass Card : 1/3

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CZECHOSLOVAKIA/Analytic Chemistry. Analysis of Organic Substances.

Abs Jour: Ref Zhur-Khimiya, No 22, 1958, 73760.

capillary placed in a Si tube with diaphragms and heated by an electric stove to 800'. The producing hydrogen halide is absorbed from the combustion gases by 2 ml of 5%-ual H202 solution. 2 ml of 0.3%ual Hg (SCN)2 solution in CH3OH and 4 ml of 6%-ual NH4Fe(SO4)2 solution in 6 n. HNO3 areladed to the absorbing solution, which is photometered at 470 m/i. The duration of combustion is 10 to 30 min. Liquid substances with small contents of halogens can be burned in calorimetric bombs. The reducing mineralization with metallic Na and combustion in O2 atmos-phere in a flask yields incorrect results. The calibration curve for the photometric determination of

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 VECERA M. CZECHOSLOWAKIA/Analytical Chemistry - Analysis of Organic E-3 Substances. Abs Jour : Ref Zhur - Khimiya, No 2, 1959, 4378 Author : Vecera, M., Synek, L. Inst :	"APPROVED	FO	R RELEASE: 08/31/2001 CIA-RDP86-00513R001859220003-1
 CZECHOSLOWAKIA/Analytical Chemistry - Analysis of Organic E-3 Substances. Abs Jour : Ref Zhur - Khimiya, No 2, 1959, 4378 Author : Vecera, M., Synek, L. Inst : - Title : Qualitative Organic Analysis. XVIII. Microdetermination of Carbon and Hydrogen Using Cobaltous-Cobaltic Oxide as a Combustion Catalyst. Orig Pub : Chem Listy, <u>51</u>, No 12, 2266-2274 (1957) (in Czech) Abstract : Z simple and reliable micromethod has been developed for the determination of C and H in organic substances. The combustion is carried out in a quartz tube of 300 mm length and 9 mm I. D., using CO₃O₄ on asbestos (thickness of catalyst bed 2.5 mm) as catalyst (RZhKhim, 1958, 43082). A 3-5 mg sample is ignited in a Pt-dish in a stream of 0.6 for 3-5 mg sample is ignited in a Pt-dish in a 	VECERA)	
 Author : Vecera, M., Synek, L. Inst :			IA/Analytical Chemistry - Analysis of Commu
 Author : Vecera, M., Synek, L. Inst :	Abs Jour	:	Ref Zhur - Khimiya, No 2, 1959, 4378
 Abstract : Z simple and reliable micromethod has been developed for the determination of C and H in organic substances. The combustion is carried out in a quartz tube of 300 mm length and 9 mm I. D., using CO₃O₄ on asbestos (thickness of catalyst bed 2.5 mm) as catalyst (RZhKhim, 1958, 43082). A 3-5 mg sample is ignited in a Pt-dish in a 		:	
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the determination of C and H in organic substances. The combustion is carried out in a quartz tube of 300 mm length and 9 mm I. D., using CO ₃ O ₄ on asbestos (thickness of catalyst bed 2.5 mm) as catalyst (RZhKhim, 1958, 43082). A 3-5 mg sample is ignited in a Pt-dish in a	Orig Pub	:	Chem Listy, <u>51</u> , No 12, 2266-2274 (1957) (in Czech)
	Abstract	:	combustion is carried out in a quartz tube of 300 nm length and 9 mm I. D., using CO_3O_4 on asbestos (thickness of catalyst bed 2.5 mm) as catalyst (RZhKhim, 1958, 43082). A 3-5 mg sample is ignited in a Pt-dish in a
por pressures, 5-10 min are required. The high	Card 1/2		por pressures, 5-10 min are required. The high
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	•	SLAU UECERA KIA / Analytical Chemistry. Analysis of E-3 Organic Substances.
	Abs Jour	: Ref Zhur - Khim., No 10, 1958, No 32220
	Author Inst Title	 Jiri Gasparic, Miroslav Vecera, Miroslav Jurecek - Identification of Organic Substances. XVI. Identifica- tion of Sulfides.
	Orig Pub	: Chem. listy, 1957, 51, No 4, 660-666; Collect. czechosl. chem. communs, 1958, 23, No 1, 97-104.
	Abstract	: Continuing the aimilar study of dialkylsulfides (DAS) containing the alkyls C_1-C_4 with straight chains, bromides, picrates and perchlorates of dialkyl-n-bromophenacylsulfonia (I) from 17 DAS-s were obtained; they contain one or two C_2-C_4 alkyls with forked chains (with the exception of tortiary butyl); their melting points, by which it is recommended to identify the corresponding DAS-s, were do-
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Abs Jour : Ref Zhur - Khim., No 10, 1958, No 32220

termined (melting points of perchlorates - from 69 to 170°, those of picrates - from 80 to 150°). I is produced by the interaction of the DAS with n-bromophenacylbromide, which takes from 20 min. to 8 hours time; a DAS with forked chains reacts more slowly then a DAS with straight cahins. The picrates and perchlorates of higher DAS homologues are produced from bromides without separating the latter from the reaction mixture. It is recommended for a more complete identification of the DAS-s to use the x-ray pictures of powdered I perchlorates and the eutectic temperatures of their mixtures with some standard preparations. The melting points of bromides, perchlorates and picrates of I, as well as x-ray picture characteristics and eutectic temperatures of I perchlorates obtained from the above mentioned DAS-s are presented. See repot XV in RZhKhim, 1958, 32229.

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CIA-RDP86-00513R001859220003-1"

VECEKA,	MIKUSLAV					
/	/AKIA/Analytic Chemistry - Analysis of Organic E-3					
Abs Jour	: Ref Zhur - Khimiya, No 14, 1958, 46452					
Author Inst	: XVII - Miroslav Vecera, JiriBorecky. XVIII - Miroslav Vecera, Jaromir Petranek, Jiri Gasparic. XIX - Miroslav Vecera, Jiri Gasparic, Antonin Spevak.					
Title	 Identification of Organic Substances. XVII. Identifica- tion of Anthraquinone Sulfoacids. XVIII. Chromatography of Aromatic Hydrazo Compounds. XIX. Microidentification of Lower Aliphatic Alcohols and O-Alkyl and N-Alkyl Groups by Paper Chromatography. 					
Orig Pub	: Chem. listy, 1957, 51, No 5, 974-976; No 8, 1553-1554; 1554-1556; reports VII, VIII, Collect. czechosl. chem. commun., 1958, 23, No 1, 130-133; No 2, 333-335.					
Abstract	: XVII. The benzylthiuronic (I) and l-naphthylmethylthiu- ronic (II) salts of mono- and disulfo acids of					
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: Ref Zhur - Khimiya, No 14, 1958,46452

anthraquinone are suitable for the identification of the latter. The ultraviolet spectra of these salts are close, but their melting points and eutectic temperatures in mixtures with dicyanamide are different. The salts are precipitated by mixing aqueous solutions of reagents and in the majority of cases, they are recrystallized from 30 to 80%-ual C_2H_5OH , and some from $CH_3OH + (CH_3)_2CO$. Melting points measured under microscope or in a capiliary and the eutectic temperatures of mixtures with dicyandiamide (about 1 : 1) of I and II of all isomer anthraquinone sulfoncids are presented. I is more suitable for the identification than II, because it melts more distinctly. XVIII. The aromatic hydrazo compounds (III) are separated chromatographically and identified on Watman paper No 4 treated with 25%-ual dimethylformamide solution in

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Abs Jour

: Ref Zhur - Khimiya, No 14, 1958, 46452

in alcohol (IV) or 10%-ual solution of formamide in alcohol (V) and dried. From 0.5 to 200 γ of the sample in 0.1 to 1%-ual alcohol or ether solution is put on the paper. It is developed by the descending method at 21 ± 10 with cyclohexanc or benzene. The dried chromatogram is sprayed with 1%-ual solution of n-dimethylaminobenzaldehide (VI) in 95 parts of alcohol and 5 parts of concentrated HCL. At this occasions the III-s regroup into corresponding diamines, which together with VI yield products of characteristic color and fluorescence presented in the report. The values of $R_{\rm f}$ 8 of III-s are also presented. This method permits to chromatograph several hundreds of f of the substance and to identify 0.5 Y of a III.; it can be used for the control of the benzidine regroupation at industrial scale. For that purpose, 10 ml of the reaction solution is

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"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001859220003-1 CZECHOSLOVAKIA/Analytic Chemistry - Analysis of Organic E-3 Substances. Abs Jour : Ref Zhur - Khimiya, No 14, 1958, 46452 alkalized with 5 ml of 50%-ual KOH solution and shaken with 5 ml of $C_{6}H_{6}$. From 10 to 30 ml of the extract is put on the paper soaked in V, it is developed in a test tube with cyclohexane by the ascending method and treated with VI solution. The chromatographic method is recommended also for the purification of III: 60 g of silica gel (VII) is saturated with 24 ml of IV, suspended in petroleum ether (VIII) and a column 25 mm in diameter is prepared. 2 g of the substance is dissolved in 1 ml of IV, VII is added and the mixture is transferred on the column, which is developed first with 200 ml of VIII and with the mixture VIII - C_{6H_6} (4 : 1) after that. XIX. The lower alkyl groups ($C_1 - C_3$) are idenfified in the shape of corresponding alkyl-3,5-dinitrobenzcates (IX). In order to convert alcohols (X) into IX-s, 0.1 ml of pyridine (XI) and 1 ml of C6H6 are added to 10 ml Card 4/6

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CZECHOSLOVAMIA/Analytic Chemistry - Analysis of Organic Substances.

Abs Jour

: Ref Zhur - Khimiya, No 14, 1958, 46452

of aqueous solution of 5 to 50 mg of X, after which 11 g of K_2CO_3 and the solution of 0.5 g of 3,5-dinitrobenzoyl chloride (XII) in 2 ml of C6H6 are added to it at cooling. after having sheken it 3 minutes, IX is extracted with ether, the extract is washed with 1%-wal H2SO4 and water, and ether is distilled off. In the case of water-free X, 5 to 50 mg of X are dissolved in 5 ml of $C_{6}H_{6}$, 50 mg of XII and 0.3 ml of XI are added, all is boiled 1 hour, the benzene solution is cooled, washed with 20%-ual NaCH solution, with water, with 5%-ual H₂SC_h, and again with water, and benzene is distilled off. In order to split the alkyl groups off the alkoxy compounds and alkylamines and to obtain IX-s, 1 to 2 (2 to 5 correspondingly) mg of the substance is boiled 1 hour with HI solution in N_2 flow; the alkyl iodides are absorbed while forming by the suspension of 3 to 4 mg of Ag-3,5-dinitrobenzoate

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CZECHOSLOVAKIA / Analytic Chemistry. Analysis of In-

Abs Jour: Ref Zhur-Khimiya, No 18, 1958, 60643.

Author : M. Vecera, L. Synek. Inst

Title : Quantitative Organic Analysis. IX. Microdetermination of Sulfur and Substances Containing Barium, Lead, Silver and Magnium.

Orig Pub: Collect. czechosl. chem. communs, 1958, 23, No 1, 133-135.

Abstract: See RZhKhim, 1958, 4320.

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