"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101910020-7

ARBACAUSKAS, A., sportsmen-planerist (g. Kaunas)

With glider pilots of Kaunas. Kryl.rod. 6 no.4:10 Ap '55. (MLRA 8:9)
(Kaunas--Gliders (Aeronautics))

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101910020-7"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101910020-7

ARBACHAUSKAS, A. [Arbacauskas, A.] (g.Vil'nyus)

New standard glider. Kryl.rod. 12 no.2:20-21 F '61. (MIRA 14:6)
(Gliders (Aeronautics))

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101910020-7"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101910020-7

ARBACHAUSKAS, A.

A new Soviet standard glider. Repules 14 no.7:17 Jl '61.

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101910020-7"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101910020-7

AGOSHKOV, M.I.; VORONYUK, A.S.; ARBACHAKOVA, G.I.

Angles of inclination of main ore chutes. Fiz.-tekh. probl. razrab. pol. iskop. no.5:66-69 '65. (MIRA 19:1)

1. Institut gornogo dela imeni Skochinskogo, Moskva.

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101910020-7"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101910020-7

ARBAI, J.; LESKOVA, Zuzana; LONGAUEROVA, Daria

Effect of lowered incubation temperatures on Nucleic acid and protein synthesis by a mesophilic and a psychrophilic bacterium. Folia microbiol. (Praha) 10 no.3:168-175 My'65.

1. Department of Microbiology, Research Institute of the Refrigerating Industry, Bratislava.

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101910020-7"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101910020-7

ARBAROV, B. M.

"The Motion of a Solid Body under Constraints Subject to Friction", Trudy Seminara po Teoriy Mashin, Vol 11, No 51, 1951, page 16.

XXIL - 2

In the same issue: "The Dynamic Investigation of Mechanisms," page 36

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"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101910020-7

1. ARBAT, IY

2. USSR (600)

4. Clubs

7. Club of 500 children, Rabotnitsa 31 no. 4, 1953.

9. Monthly List of Russian Accessions, Library of Congress, APRIL 1953, Uncl.

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101910020-7"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101910020-7

ARBAT, YU.

Moving Pictures

They help create films. Rabotnitsa 30, No. 1, 1952.

Monthly List of Russian Accessions, Library of Congress, March 1952. Unclassified.

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101910020-7"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101910020-7

ARBAT, Yu. A.

"Novoye i maloizvestnoye v izuchenii russkogo iskusstva."

report submitted for 7th Intl Cong, Anthropological & Ethnological Sciences, Moscow, 3-10 Aug 64.

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101910020-7"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101910020-7

ARBATOV, A.A.

Upper Jurassic reefs of the Northern Caucasus. Neftegaz, geol. i geofiz. no.11:3-6'63 (MIRA 17:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy geologorazvedochnyy neftyanoy institut, Moskva.

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101910020-7"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101910020-7

SOLOV'YEV, A.V.; ARBATOV, A.A.; TURPAYEVA, G.Ye.

Carbonate reservoirs in Mesozoic sediments of Ciscaucasia and the Northern Caucasus. Geol. nefti i gaza 9 no.6:40-44 Je '65. (MIRA 18:8)

1. Vsesoyuznyy nauchno-issledovatel'skiy geologorazvedochnyy neftyanoy institut, Moskva.

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101910020-7"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101910020-7

ARBATOVA, T. D.

USSR/Medicine - Dysentery Jul 53

"Characteristic Traits of the Epidemiology of Dysentery," T. D. Arbatova

Zhur Mikro, Epid, i Immun, No 7, p 24

The incidence of dysentery varies from one city rayon to another and within the individual rayons, depending on sanitary conditions. The relative weight of summer infections with dysentery in the total annual number of infections is decreasing. The proportion of adults infected with dysentery is on the increase, while the number of infected children is decreasing. The proportion of dysentery in the total incidence of intestinal diseases shows a slight rise due to better methods of diagnosis.

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APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101910020-7"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101910020-7

POLAND/Chemical Technology - Chemical Products and Their Application. Fats and Oils. Waxes. Soaps and Detergents. Flotation Agents. H.

Abs Jour : Ref Zhur - Khimiya, No 10, 1959, 36654

Author : Bronisz, H., Arbatowska, M., Lesczynska, H., Oledzka, R., Staniszhewska, L.

Inst : -

Title : The Determination oftthe Peroxide Number at the Evaluation of Vegetable Food Oils.

Orig Pub : Roczn. Panstw. zakl. hig., 1958, 9, No 3, 255-266.

Abstract : The causes and the characteristics of peanut, soybean and rapeseed oils during production and the annual storage in warehouses have been investigated. It was established that the increase in liquid and solid oils is not an indication of rancidity, because such oils possess little acidity; for example, 0.84% (0.25%, taking oleic acid into account), and the peroxide number)PN) is equal to, or

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APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101910020-7"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101910020-7

ARBATSKAYA, A.N.; ZHELUDEV, I.S.; ZIRNIT, U.A.; SUSHCHINSKIY, M.M.

Low-frequency vibrational spectra of single crystals of triglycine sulfate and Rochelle salt in phase transitions. Kristallografiia 10 no.3:335-337 My-Je '65. (MIRA 18:7)

1. Institut kristallografii AN SSSR.

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101910020-7"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101910020-7

ZOGRABYAN, Suren Gegamovich; ARBATSKAYA, Yu.D., redaktor; GLUKHOYEDOVA, G.A., tekhnicheskiy redaktor

[Diagnostic surgery in diseases of the brain and spinal cord] Diagnosticheskie operatsii pri zabolevaniiakh golovnogo i spinnogo mozga. Moskva, Gos.izd-vo med. lit-ry, 1955. 195 p.

(BRAIN--SURGERY) (SPINAL CORD--SURGERY) (MLRA 9:2)

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101910020-7"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101910020-7

ARBATSKAYA, Yu.D.; KOGAN, V.M.; PETROV, D.I.; PIS'MENNYY, R.Ya.; CHULKOVA, M.S.

Studying patients in the first stage of hypertension with an initial cerebral syndrome in connection with their working conditions. Zhur. nevr. i psikh. 56 no.6:472-477 '56. (MLRA 9:8)

1. Kafedra vrachebno-trudovoy ekspertizy (zav. prof. N.K.Bogolepov) TSentral'nogo instituta usovershenstvovaniya vrachey i TSentral'nyy institut ekspertizy trudosposobnosti i trudovogo ustroystva invalidov (dir. - prof. O.I.Sokol'nikov), Moskva.

(HYPERTENSION, compl.
funct. disord. of brain in telegraphers, determ. of clin. manifest.)
(BRAIN, dis.
funct. disord. in telegraphers with hypertension, determ. of clin. manifest.)
(OCCUPATIONAL DISEASES
cerebral funct. disord. in telegraphers with hypertension, determ of clin. manifest.)

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101910020-7"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101910020-7

ARBATSKAYA, Yu.D.

BOGOLEPOV, N.K.; ARBATSKAYA, Yu.D.

[Disability evaluation in case of brain injuries] Vrachebno-trudovaia ekspertiza pri travmakh golovnogo mozga. Moskva, Medgiz, 1957. 101 p. (MLRA 10:4)
(BRAIN--WOUNDS AND INJURIES) (DISABILITY--EVALUATION)

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101910020-7"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101910020-7

SOKOL'NIKOV, O.I.; ARBATSKAYA, Yu.D.; DUKHOVNAYA, O.L.

Prophylactic significance of rational rehabilitation in sluggish and latent rheumatic fever. Vop.revm. 2 no.3:65-69 Jl-S '62. (MIRA 16:2)

1. Iz kafedry vrachebno-trudovoy ekspertizy (zav. - prof. I.I. Sokol'nikov) TSentral'nogo instituta usovershenstvovaniya vrachey (rektor M.D. Kovrigina), Moskva.

(RHEUMATIC FEVER) (OCCUPATIONAL THERAPY)

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101910020-7"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101910020-7

ARBATSIAUSKIYENE

LAZUTKA, P., med. m. kand.; BITE, A.; ARBACIAUSKIENE, L.

On the problem of improved sanitary conditions of dairy farms, of the quality of milk and of working conditions for milk maids in the Republic. Sveik. apsaug. 7 no.4(76):36-42 Ap '62.

1. Vilniaus Epidemiologijos ir higienos m. t. institutas.

(DAIRYING)

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101910020-7"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101910020-7

L 21129-66 EWT(m)/EWP(j) RM

ACC NR: AP6011959

SOURCE CODE: UR/0070/65/010/003/0335/0337

AUTHOR: Arbatskaya, A. N.; Zheludev, I. S.; Zirnit, U. A.; Sushchinskiy, M. M.

ORG: Institute of Crystallography, AN SSSR (Institut kristallografii AN SSSR)

TITLE: Low-frequency vibrational spectra of triglycine sulphate and rochelle salt monocrystals during phase transitions

SOURCE: Kristallografiya, v. 10, no. 3, 1965, 335-337

54
B

TOPIC TAGS: phase transition, Raman spectrum, Curie point, light scattering, crystal lattice vibration, quartz crystal, crystal symmetry, single crystal

ABSTRACT: Raman scattering spectra of monocrystals of triglycine sulfate are studied near the Curie temperature (+49°C); and those of Rochelle salt, near the upper Curie point (+24°C). According to the Ginsburg-Levanyuk theory, the spectral structure of the scattered light should change markedly near the phase transition points of the second kind. This change should be characterized by a decrease in the frequency of certain lattice vibrations when the temperature is raised. At the transition point of the second kind the frequency of these vibrations should become zero and the corresponding Raman lines intensify. Experiments with quartz appear to support the G-L theory.

Triglycine sulfate undergoes a change in symmetry upon passing through the Curie point. A right-angle prismatic monocrystal was illuminated along the Y and then along the Z axis, and the scattered light was observed along the Z axis in both cases. A line at 47 cm^{-1} appeared in the Raman spectra when the direction of

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UDC: 548.0: 537

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L 21129-66

ACC NR: AP6011959

illumination is changed from the Y to the X direction. Features of the spectra are compared with published data in a table. In order to observe the expected increase in scattered light intensity the temperature of the sample was varied slowly through the phase transition, but no change was observed in the Raman spectra. Similar experiments were conducted with piezoelectric salt crystals with similar results. Orig. art. has: 2 tables. [JPRS]

SUB CODE: 20 / SUBM DATE: 08Jun64 / ORIG REF: 008 / OTH REF: 004

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APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101910020-7"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101910020-7

KRESHKOV, A.P.; KHUDYAKOVA, T.A.; AUROV, A.P.; ARBATSKIY, A.P.

Chronoconductometric method for determining maleic anhydride in its copolymer with styrene and sodium styromaleinate. Plast. massy no.7: 51-55 '65. (MIRA 18:7)

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101910020-7"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101910020-7

ARBATSKIY, A. V.

"Synthesis of Several Homologues of N-Substituted Pyrrole and Pyrrolidine," Zhur. Obshch. Khim., 19, No.9, 1949.

Lab. Organic Chemistry im. Zelinskiy, Moscow State U.

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101910020-7"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101910020-7

ARBATSKIY, A. V.

"N-Phenylpyrrolidine, and Its Reactions." Sub 20 Apr 51, Moscow Order of Lenin State U imeni M. V. Lomonosov.

Dissertations presented for science and engineering degrees in Moscow during 1951.

SO: Sum. No. 480, 9 May 55

Cand Chemical Sci.

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101910020-7"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101910020-7

YUR'YEV, Yu.K.; KORSAKOVA, I.S.; ARBATSKIY, A.V.

Nitration, bromination and carboxylation of N-phenylpyrrolidine. Izv.Akad.nauk SSSR; Khim.otd. no.2:166-171 Mar-Apr 51. (CLML 20:7)

1. Laboratory of Organic Chemistry imeni N.D. Zelinskiy of Moscow State University.

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101910020-7"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101910020-7

ARBATSKIY, A.V.

USSR

The sulfonamides containing the pyrrolidine cycle. Yu. K. Yur'ev and A. V. Arbatskii (Moscow State Univ.). *Vestnik Moskov. Univ.* 8, No. 2, *Ser. Fiz.-Mat. i Estestven. Nauk* No. 1, 83-7(1953).—The following *compds.* of the type 4-$(CH_2.CH_2.CH_2.CH_2.N)C_6H_4SO_2NRR'$ (I) [R,R', m.p. (°C.), and % yield given] prepd. from NH_3 and different amines with *p*-(1-pyrrolidinyl)benzenesulfonyl chloride in agreement with theory (*C.A.* 32, 5500°) all were inactive against bacteria *in vitro*; they were not investigated *in vivo*]: *H, H*, 193° (from hot water) 65; *H, 2-pyridyl-*, 232° (from dil. alc.), 66; *H, 4-chloro-6-methyl-2-pyrimidinyl*, red-brown amorphous powder sol. in acids (pink) and alkalies (yellow), decomp. 315°, 50.8; (*NRR'*=)*1-pyrrolidinyl*, 197.5° (from glacial AcOH), 64; *H, cyclohexyl*, light violet, 298° (from glacial AcOH), 71; *H*, CH_2CH_2OH, 128-9° (from water) 73%. A. Sementsov

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"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101910020-7

ARBATSKIY, N V

USSR

Dyes containing the pyrrolidine rings. Yu. K. Yur'ev and A. V. Arbatskiĭ. *Vestnik Moskov. Univ.* 9, No. 12, *Ser. Fiz.-Mat. i Estestven. Nauk* No. 8, 63-70(1954).—Reaction of 1-phenylpyrrolidine (I) with diazonium salts yields azo dyes contg. the pyrrolidine ring; reaction of I with BzH and Michler's ketone yields triphenylmethane dyes contg. pyrrolidine rings. The pyrrolidine analogs of the benzenoid dyes show a displacement of the absorption max. toward the longer wave lengths. To 1.87 g. $NaNO_2$, 1.01 g. NaOH, and 13.7 ml. H_2O was added over 0.5 hr. with stirring a mixt. of 4 g. I, 2.53 g. $PhNH_2$, and 5.9 ml. HCl (d. 1.17) at below 10°, to yield 27% red *4-pyrrolidinylazobenzene*, m. 157°, giving red color in acids and orange in bases. To 12.1 g. sulfanilic acid in 20 ml. 2*N* NaOH was added at 0° 8 ml. concd. HCl, followed by 5 g. $NaNO_2$ in 50 ml. H_2O, and the soln. was added at 0-3° to 7.3 g. I in 50 ml. H_2O and 8 ml. concd. HCl. After 1.5 hrs. there was obtained, after neutralization with NaOH, 80% *Na salt of 4-pyrrolidinyl-4'-sulfoazobenzene*, orange crystals (from H_2O). The *free acid*, violet, m. 211°, gave a red color with acids, yellow with bases. Coupling of I with anthranilic acid in 8% HCl gave 28.5% *2-carboxy-4'-pyrrolidinylazobenzene*, isolated as the Na salt, violet powder, giving red color in acids and yellow in bases. Anisidine and I gave 55% orange *4-methoxy-4'-pyrrolidinylazobenzene*, m. 182-4° (from pyridine or EtOH). I (8.8 g.), 2.1 g. BzH, and 2 g. powd.

Chem Org. Chem.

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"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101910020-7

$ZnCl_2$ heated 4 hrs. to 100°, then steam distd. gave a residue which yielded 81% leuco base, *bis(p-pyrrolidinylphenyl)-phenylmethane*, colorless solid. The latter treated with PbO_2 in 8% HCl and AcOH, freed of Pb with Na_2SO_4, and pptd. with $ZnCl_2$ gave a blue-green *$ZnCl_2$ salt of bis(p-pyrrolidinylphenyl)phenylchloromethane*, which gave green solns. in EtOH or H_2O. The latter gave with aq. NaOH 91.5% of the *carbinol base*, $C_{23}H_{23}ON_2$, m. 216–17° (from ligroine), which acquires blue-green color in air. To 5.4 g. Michler's ketone and 14.7 g. I was added gradually 5.5 g. $POCl_3$ and after 3 hrs. at 100° the mixt. was made alk. with NaOH, steam distd., and the residue boiled with dil. HCl 1 hr. to give (on salting out of the ext. with NaCl) 70% *bis(p-dimethylaminophenyl)(p-pyrrolidinylphenyl)chloromethane*, violet-green, which gave violet solns. which lost color on acidification. Treatment with aq. NaOH gave the free *carbinol base*, colorless crystals turning violet in air. I (2.9 g.) and 3.2 g. 1-(p-aminophenyl)pyrrolidine in 15 ml. concd. HCl and 15 ml. H_2O were cooled to 0°, treated with 4 g. $K_2Cr_2O_7$, and stirred 3 hrs. with cooling. Addn. of $ZnCl_2$ gave green *4,4'-bis(p-pyrrolidinylphenyl)chloramine*, in the form of the $ZnCl_2$-KCl salt, $C_{26}H_{28}N_4Cl_4KZn$; this gives green solns. in EtOH or H_2O.

G. M. Kosolapoff

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101910020-7"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101910020-7

ARBATSKIY A V

Preparation of N-phenylpyrrolidine from 1,4 butanediol and aniline in the presence of aluminosilicate Yu. K.

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101910020-7"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101910020-7

ARBATSKIY, A.V.

AID P - 3582

Subject : USSR/Chemistry

Card 1/1 Pub. 152 - 19/20

Authors : Yur'yev, Yu. K., A. V. Arbatskiy, I. K. Korobitsyna, and V. M. Andreyev

Title : Preparation of N-phenylpyrrolidine from 1,4-butanediol and aniline in the presence of aluminosilicate

Periodical : Zhur. prikl. khim., 28, 7, 781-782, 1955

Abstract : Under optimum reaction conditions, the yield of N-phenypyrrolidine obtained was 68.1%. The preparation is described in detail. One table, 5 references, all Russian (1937-1950).

Institution : None

Submitted : Je 30, 1954

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101910020-7"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101910020-7

ARBATSKIY, A.V.; GRIGOR'YEV, A.A.; KLIMENKO, M.Ya.

Preparation of a new flotation reagent - 1,1,3-triethoxybutane.
Khim.prom. no.3:176-181 Mr '62. (MIRA 15:4)
(Butane)

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101910020-7"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101910020-7

ALIYEV, A.D.; ARBATSKIY, A.V.; SHISHKINA, M.V.; KRENTSEL', B.A.

Stereospecific polymerization of trans-1-phenyl-1,3-butadiene.
Dokl. AN SSSR 153 no.2:333-335 N '63. (MIRA 16:12)

1. Institut neftekhimicheskogo sinteza AN SSSR. Predstavleno akademikom V.A.Karginym.

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"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101910020-7

ARBAYEV, S. A.

ARBAYEV, S. A.--"The Polytherm of Solubility of Sodium and Potassium Chlorides in Sucrose Solutions at 20-60 Degrees, and The Solid Phases." Acad Sci Kazakh SSR. Inst of Chemical Sciences. Frunze, 1955. (Dissertation for the Degree of Candidate of Chemical Sciences).

SO: Knizhnaya Letopis' No. 27, 2 July 1955

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101910020-7"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101910020-7

DRUZHININ, I.G.; ARBAYEV, S.A.

Solubility and the solid phases of ternary systems consisting of sucrose, sodium chloride, potassium chloride, and water at 20, 40, and 60°. Izv.AN Kir.SSR.Ser.est.i tekh.nauk 2 no.3: 95-102 '60. (MIRA 13:9)

(Sucrose) (Salt) (Potassium chloride)

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101910020-7"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101910020-7

ARBAYEV, S.A.

Thermal solubility diagram of the ternary system sodium chloride-sucrose-water. Report No. 1. Uch. zap. Biol.-pochv. fak. Kir. un. no.7:189-205 '58. (MIRA 15:10)
(Salt) (Sucrose) (Solubility)

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101910020-7"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101910020-7

DRUZHININ, I.G.; BAKASOVA, Z.; ARBAYEV, S.A.; IMANAKUNOV, B., otv. red.; VAZHEYKO, I.V., red. izd-va; ANOKHINA, M.G., tekhn. red.

[Reaction of saccharose with sodium, potassium, calcium, and magnesium chlorides]Vzaimodeistvie sakharozy s khloridami nartiia, kaliia, kal'tsiia i magniia. Frunze, Izd-vo Akad. nauk Kirgizskoi SSR, 1962. 145 p. (MIRA 16:2)

(Sucrose) (Alkali metal chlorides)
(Alkaline earth chlorides)

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101910020-7"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101910020-7

DRUZHININ, I.G.; BAKASOVA, Z.; ARBAYEV, S.A.; IMANAKUNOV, B., otv.red.; VOZHEYKO, I.V., red.izd-va; ANOKHINA, M.G., tekhn. red.

[Reaction of saccharose with sodium, potassium, calsium, and magnesium] Vzaimodeistvie sakharozy s khloridami natriia, kaliia, kal'tsiia i magniia. Frunze, Izd-vo Akad.nauk Kirgizskoi SSR, 1962. 145 p. (MIRA 16:4)
(Sucrose) (Chlorides)

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101910020-7"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101910020-7

NIKITINA, Ye.V.; AYDAROVA, R.A.; DZHANAYEVA, V.M.; UBUKEYEVA, A.U.; ARBAYEVA, Z.S.; SUDNITSYNA, I.G.; SULTANOVA, R.M.; GORBUNOVA, N.V.; TKACHENKO, V.I.; FILATOVA, N.S.; CHERNEVA, O.V.; VVEDENSKIY, A.I., nauchn. red.; VYKHODTSEV, I.V., otv. red.

[Flora of the Kirghiz S.S.R.; a guide to the plants of the Kirhiz S.S.R.] Flora Kirgizskoi SSR; opredelitel' rastenii Kirgizskoi SSR. Frunze, Ilim. Vol.11. 1965. 606 p. (MIRA 18:11)

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ARBAYT, I.I.

Experience with the continuous method of fermentation. Spirt. prom. 24 no.8:25-27 '58. (MIRA 11:12)
(Blagoveshchensk (Amur Province--Fermentation))

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DERBAREMDIKER, M.I.; SEREBRENNIKOVA, K.L.; TERNOVSKIY, V.A.; Pripimali uchastiye: SHAROV, P.M.; NOVIKOV, L.Z.; LUR'YE, B.I.; PIS'MEN, M.K.; KARABIN, A.I. [deceased]; KOSTIN, L.I.; FROLOV, V.P.; MEDVEDEV, F.V.; GELIMKHANOV, S.G.; BONDAR', V.G.; TIMOFEYEV, P.I.; MININA, L.V.; ARBEKOV, F.F.; NIKOLAYEV, N.I.; YAROSLAV, T.Ye.; NUDEL'MAN, V.G.

Gasification of mazut under pressure in a steam-oxygen blast. Gaz. prom. 9 no.11:49-50 '64. (MIRA 17:12)

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"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101910020-7

TAREYEVA, I.Ye.; PRISS, I.S.; ROZANOVA, L.B.; ARBENINA, N.S.; ROZENBLAT, V.M.; POD'YAGEL', M.I.

Outcome of Botkin's disease. Vop.med.virus. no.9:254-259 '64. (MIRA 18:4)

1. Iz laboratorii deystvitel'nogo chlena AMN SSSR prof. B.M. Tareyeva.

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ARBEN'YEV, A., inzh.; ZOBNIN, A., inzh.

Effective method of winter concreting. Na stroi. Ros. 3 no.10: 23-24 O '62. (MIRA 16:6)

(Concrete construction—Cold weather conditions)

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ARBEN'yev, A.

Placing concrete in winter with brief electric heating of the mix.
Stroitel' 9 no.5:25-27 My '63. (MIRA 16:9)
(Concrete construction--Cold weather conditions)

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ARBEN'YEV, A. S., inzh.

Open pit working of clay under winter conditions in Kuznetsk Basin.
Stroi. mat. 4 no.9:29-30 S '58. (MIRA 11:10)
(Kuznetsk Basin--Clay)

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ARBEN'YEV, A.S., inzh.

Learning to work with the keramzit unit at a brick factory.
Stroi.mat. 6 no.4:26-27 Ap '60. (MIRA 13:6)
(Lyskovo--Building materials industry--Equipment and supplies)

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"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101910020-7

ARBEN'YEV, A.S., inzh.

Electric curing of a mixture and strength of concretes.
Stroi. mat. 9 no.10:39-40, 3 of cover O '63.
(MIRA 16:11)

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101910020-7"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101910020-7

ARBEN'YEV, A.S., inzh.

Study of the properties of concrete placed in Siberia in the wintertime. Bet. i zhel.-bet. 9 no.11:519-521 N '63. (MIRA 17:1)

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"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101910020-7

ARBEN'YEV, A.S., inzh.

Winter concreting with electric heating of the mix.
Prom. stroi. 40 no.9:27-29 '62. (MIRA 15:11)
(Concrete construction--Cold weather conditions)

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"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101910020-7

ARBEN'YEV, A.S., inzh.

Studying the properties of concrete subject to freezing at temperatures up to -50° C. Trudy Zap.-Sib. fil. ASiA no.7:85-92 '62.

Extending the area of the use of the thermos method. Ibid.:93-97 (MIRA 18:2)

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"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101910020-7

ARBEN'YEV, Aleksandr Sergeyevich, inzh.; ANTONOVA, N.N., inzh., red.

[Concreting under winter conditions with electrically heated mixes; according to materials of the Novokuznetsk Section of the West-Siberian Branch of the Academy of Construction and Architecture of the U.S.S.R.] Betonirovanie v zimnikh usloviiakh s elektropodogrevom betonnoi smesi; po materialam Novokuznetskogo otdeleniia Zapadno-Sibirskogo filiala ASiA SSSR. Moskva, Gosstroiizdat, 1963. 33 p. (MIRA 17:10)

1. Akademiya stroitel'stva i arkhitektury SSSR. Nauchno-issledovatel'skiy institut organizatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stvu. 2. Rukovoditel' laboratorii stroitel'nykh materialov Novokuznetskogo otdeleniya Zapadno-Sibirskogo filiala Akademii stroitel'stva i arkhitektury SSSR (for Arben'yev).

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"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101910020-7

ARBEN'YEV, A.S., inzh.; KOZLOV, A.D., inzh.; LEPEKHIN, I.P., inzh.; SUDAKOV, V.F., inzh.

Winter concreting of foundations with electric curing of the concrete mix. Prom. stroi. 42 no.9:41-42 S '64. (MIRA 17:10)

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"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101910020-7

L 05912-67 EWT(m)

ACC NR: AP6015957 (A) SOURCE CODE: UR/0097/66/000/001/0027/0029

AUTHOR: Arben'yev, A. S. (Candidate of technical sciences)

ORG: None

11
B

TITLE: A new method for winter application of concrete 16

SOURCE: Beton i zhelezobeton, no. 1, 1966, 27-29

TOPIC TAGS: concrete, concrete equipment, hydration, transportation equipment

ABSTRACT: The author proposes a broader application of the vacuum bottle method which consists of brief electric heating of the concrete mixture before laying. A study is described which was carried out at the Novokuznetsk Division of the Ural Scientific Research Institute of Reinforced Concrete under the direction of Professor S. A. Mironov on the effect of low temperatures on concrete mixture dueing transportation. Grade 200 concrete was used with a water to cement ratio of 0.4-0.7 and cone runoff from 2 to 12 cm with various admixtures of NaCl, $CaCl_2$ and sulfite waste liquor which did not exceed more than 2% of the total cement weight. All test specimens were made from the same batch and held at various temperatures to ensure fully comparable results. The concrete mixture was cooled in a special container and heated by current flowing through the container walls. The specimens were tested after outside exposure for 1, 3 and 28 days and 28 days after standard storage. The results show that con-

Card 1/2

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L 05912-67

ACC NR: AP6015957

crete mixture cooling during transportation under cold conditions causes intense cement hydration. Concrete strength can be increased from 20 to 30% at low concrete mixture temperature or by using cold fillers during hardening under ordinary conditions. High temperature heating of fillers and long transportation in cold weather produces heat losses and induces concrete hardening which interferes with application. Short duration electric concrete mixture heating before laying does not disturb the structure of the mixture and increases cement hydration. The strength of concrete produced in this manner is 2 to 3 times better than that of ordinary concrete. Electric heating before concrete laying makes it possible to broaden the application of the vacuum bottle method. This ensures 50% mark hardness with normal physical and mechanical properties at temperatures up to 243°K in average structures with surface modules up to 10. The use of quick hardening cements or warming molds makes it possible to achieve 70% mark strength of the concrete before it freezes. Orig. art. has: 10 figures.

SUB CODE: 11/ SUBM DATE: None/ ORIG REF: 004

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Card 2/2

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"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101910020-7

ARBET, J.

Hydraulic duplex cylinder. Stroj vyr 9 no.7:336 '61.

1. Vyskumny ustav kabelov a izolantov, Bratislava.

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"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101910020-7

ARBET, Jan

Braking drum for unwinding of fine fabrics. Stroj vyr 10 no.7:359 '62.

1. Vyskumny ustav kabelov, Bratislava.

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101910020-7"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101910020-7

ARBET, Jan

Synchronizing revolutions and circumferential speeds by means of hydromotors. Stroj vyr 12 no.8:583-584 '64.

1. Research Institute of Cables and Insulators, Bratislava.

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"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101910020-7

ARBINA, T.F.

4

Continuous production of isoborneol acetate from camphene. G. A. Rudakov, Z. S. Khomenko, and T. F. Arbina. *Gidroliz. i Lesokhim. Prom.* 8, No. 2, 3-4(1955).—Isoborneol acetate (I) was made by the reaction of camphene (II) and glacial AcOH (III) in the presence of cation exchange resins bearing sulfonic groups (IV); 2% water was permissible in III, and a higher diln. was prevented by the addn. of 100% AcOH. The type of IV was of the utmost importance, and under the favorable conditions the yield was 89%. Esterification of II with HCO_2H under the same conditions was sluggish owing to the greater amt. of water in HCO_2H.

T. Iureric

TSentral'nyy nauchno-ussledovatel'skiy lesokhimicheskiy institut.

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"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101910020-7

TSURINOVA, Ye.G.; ARBISMAN, D.M.

Dynamics of protein fractions in the serum of fibrinolytic blood in relation to the period of its preparation and preservation. Probl. gemat. i perel. krovi 9 no.3:45-49 Mr '64. (MIRA 17:10)

1. Nauchno-issledovatel'skiy institut skoroy pomoshchi imeni Yu.Yu. Dzhanelidze (dir.- prof. G.D. Shushkov).

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"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101910020-7

ARBIT, Ye.A.; SEREBRENNIKOV, V.V.

Compounds of rare-earth elements and yttrium with vanadic acids. Zhur. neorg. khim. 10 no.2:410-413 F '65.

1. Submitted July 5, 1963. (MIRA 18:11)

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101910020-7"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101910020-7

ARBITAN, A.A.

Design and calculation of the structure of artificial fur with a woven base. Leh. prom. no.3:63-66 Jl-S '65. (MIRA 18:9)

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101910020-7"

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101910020-7

ARBITAN, A.A.; BYCHKOVA, I.I.; GORDIYENKO, M.G. [Hordiienko, M.H.]; KUCHER, I.E.

Interfacing fabrics for the collars and cuffs of men's shirts made from synthetic materials. Leh.prom. no.1:9-10 Ja-Mr '64. (MIRA 19:1)

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"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101910020-7

ARBITMAN, S. M.

Intensification of the styrene polymerization process for the production of polymers with predetermined properties. S. M. Arbitman [illegible]

[illegible] propylbenzene hydroperoxide with various reducing agents ($FeSO_4$, Na_2SO_4, $Na_2S_2O_3$), and (II) with Bz_2O_2 or $K_2S_2O_8$. The preferred formula contained styrene 104, H_2O 208, K castor oil soap 2.08 g., I 3.4, and Na_2SO_4 4.76 mmol. Curves were reproduced of the mol. wt. of the polymers obtained during different polymerization times, the kinetic curves at various temps., the polymerization rates at different temps., the polymerization rates at different I concns., and the rates of addn. of I to the system. W. M. Sternberg

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"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101910020-7

ARBITMAN, S.M., Cand Tech Sci -- (diss) "Study of the continuous process and apparatus forming of water-emulsion polymerization of styrene." Mos 1958, 15 pp (Min of Higher Education USSR. Mos Inst of Chem Machine Building) 150 copies (KL, 42-58, 115)

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"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101910020-7

AUTHORS: Arbitman, S. M., Levin, A. N. 64-58-2-5/16

TITLE: Continuous Water-Emulsion Polymerization of Styrene (Nepreryvnaya vodnoemul'sionnaya polimerizatsiya stirola)

PERIODICAL: Khimicheskaya Promyshlennost', 1958, Nr 2, pp. 27-32 (USSR)

ABSTRACT: A method is described which is initiated by an oxidation reduction system and which takes into account the previous works in the field of continuous processes. The plant consists of an "ideal arrangement" of the apparatus according to the grapho-analytical computation method for the ideal order of aggregates for reactions in homogenous liquid phase. A schematic representation of the laboratory plant is given and from it can be seen that the aqueous solution of the emulsifier together with the reducing agent, and styrene together with the oxidizing agent dissolved in it are directed into the emulsifier through siphons, in the emulsifier being a propeller doing 1000 revs/min. From the emulsifier the line leads through a coil in the water thermostat to the three polymerization vessels which are also placed in thermostats. Each polymerizer has a thermometer and a stirrer. From the given operation technique can be seen that

Card 1/3

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polymerization begins in the last polymerizer, that then the two before this are supplied after each other and that only then continuous polymerization begins by the full connection of the plant. From a table can be seen that the authors worked according to three methods. The operational parameters of the aggregates are computed grapho-analytically and the given diagrams (velocity curves) of the function of time- and monomer concentration vs. polymerization velocity are obtained by graphical differentiation. From the obtained velocity curves the steady concentrations of each individual polymerizer are computed according to a formula; the practically obtained mean values coincide sufficiently with those calculated. From this is concluded that the grapho-analytical method of computation can be used for this operation process. The determination of the monomer content in styrene was carried out by bromination of the double bond. It was found that the capacity of the plant a greed with the calculations, and that it was very high in the various methods. The schematic representation of a test plant is also given. Among other it can be seen from it that the latex of the last polymerizer is coagulated in a coagulator

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with a water solution of the coagulum and is separated from the monomer, or according to another variant is directly brought into drying atomizer. The latex suspension coagulated and treated with steam can be washed in two different ways. The washed polymer is dried in an air drying apparatus. There are 4 figures, 5 tables, and 5 references, 4 of which are Slavic

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1. Styrene--Polymerization 2. Industrial plants--Operation
3. Industrial equipment--Operation 4. Mathematics

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ARBITMAN, S.M.; LEVIN, A.N.

Continuous aqueous emulsion polymerization of styrene. Khim. prom. no.2:91-96 Mr '58. (MIRA 11:5)

(Styrene) (Polymerization)

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5

KAMNEVA, A.F., MUZYCHENKO, L.A., KHCHEYAN, KH.YE., PAVLICHEV, A.F., ARBITMAN, S.M., KHUPTSOV, B.K.

Experimental data about the production of phthalic anhydride by oxidation of o-xylol

Report to be submitted for the 12thConference on high molecular weight compounds devoted to monomers, Baku, 3-7 April 62

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S/064/62/000/006/002/003
B144/B138

AUTHORS: Khcheyan, Kh. Ye., Pavlichev, A. F., Arbitman, S. M., Kuricheva, L. N.

TITLE: Production of phthalic anhydride by liquid-phase oxidation of o-xylene

PERIODICAL: Khimicheskaya promyshlennost', no. 6, 1962, 6 - 10

TEXT: On the basis of their previous studies (Author's certificate 136538, Sb. izobr. i rats. predl., no. 7, 80 (1961)) the authors developed a three-stage process for producing phthalic anhydride (PA) from o-xylene: (1) liquid phase oxidation (LPO) of o-xylene to o-toluic acid by atmospheric O_2; (2) esterification of o-toluic acid with methanol; (3) LPO of the methyl ester of o-toluic acid to PA and methanol. After a survey of papers in this field, the method is described in detail. (1) LPO of o-xylene (d_4^{20} = 0.8700 - 0.8802; n_D^{20} = 1.5052, b.p. = 142 - 145°C) was carried out: (a) catalytically at atmospheric pressure and 128 - 130°C with preliminary addition of 5 - 6 drops of isopropyl benzene hydroperoxide;

Card 1/3

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or (b) at elevated pressure without catalyst at 130 and 150°C. The oxidate contained toluic aldehyde and o-toluic acid which were determined with oxime and from the acid value (potentiometric titration), respectively. The yield in o-toluic acid increased with rising pressure and temperature and averaged 90 - 97 %. (2) Oxidation of o-toluic acid necessitates the esterification of the carboxyl group. This was done with ГОСТ 2222-54 (GOST 2222-54) methanol. The reaction rate increased from 45 to 97 % when the temperature was raised from 245 to 300°C. An acid:methanol molar ratio of 1:5 is recommended for industrial conditions. The rate constants at different temperatures were (min^{-1}): k_{245} = 0.0619; k_{270} = 0.1716; k_{300} = 0.2615. The activation energy was 11930 cal/mole. (3) The ester is catalytically oxidized to PA at atmospheric pressure and 125 - 200°C. At 180°C, the LPO of the methyl ester obtained (n_D^{20} = 1.5200) takes place practically without induction period if 4 - 5 drops of isopropyl benzene hydroperoxide are added. With a 42 % yield, the reaction time at 180°C decreased from 8 hrs at atmospheric pressure to 2 hrs at elevated pressure. PA was separated by cooling the oxidate down to room temperature or by distillation in vacuo; it was obtained with a yield of 90 - 95 % and

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Production of phthalic ... S/064/62/000/006/002/003
B144/B138

answered the ГОСТ 7119-54 (GOST 7119-54) requirements. There are 6 figures.

ASSOCIATION: NIISS

Card 3/3

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"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101910020-7

KHCHEYAN, Kh.Ye.; PAVLICHEV, A.F.; ARBITMAN, S.M.; KURICHEVA, L.N.

Production of phthalic anhydride by the liquid phase oxidation of o-xylene. Khim.prom. no.6:392-396 Je '62. (MIRA 15:11)

1. Nauchno-issledovatel'skiy institut sinteticheskogo spirta.
(Phthalic anhydride) (Xylene)

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"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101910020-7

ARBIYEV, K.K., gornyy inzh.; PROTASOV, V.F., kand. ekonom. nauk

Technical progress at ore strip mines of the Noril'sk Combine. Gor. zhur. no.6:6-10 Je '65. (MIRA 18:7)

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"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101910020-7

ARBIYEV, K.K., gornyy inzh.

Practice of boring and blasting operations in pits of the Noril'sk Combine. Gor. zhur. no.7:15-20 Jl '63. (MIRA 16:8)

1. Noril'skiy gornometallurgicheskiy kombinat.

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"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101910020-7

ARBOLISHVILI, D.Z.

Geothermal conditions in certain areas of the Georgian S.S.R.
Geol. nefti 2 no.12:43-47 D '58. (MIRA 12:2)

1. Ob"yedineniye Gruzinskoy neftyanoy promyshlennosti.
(Georgia--Earth--Temperature)

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"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101910020-7

ARBOLISHVILI, D.Z.

Prospecting for oil and gas in Mesozoic sediments of western Georgia. Azerb. neft. khoz. 37 no.9:6-8 S '58. (MIRA 11:12)
(Georgia--Gas, Natural--Geology)
(Georgia--Petroleum geology)

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"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101910020-7

ARBOLISHVILI, D.Z.

Oil pools in the Shiraki series of the Patara-Shiraki field. Geol. nefti i gaza 4 no.11:37-40 N '60. (MIRA 13:11)

1. Trest Gruzneft'.

(Georgia--Petroleum geology)

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ARBUSOV, S. YA.

2

concentration of all three acceptors. The variation of the yield as a function of concentration of the competing acceptors will be identical, whereas any variation of concentration of the inactive substance will not influence the yield. The qualitative conclusions are borne out by the results of the quantitative analyses used in the investigation of radiolysis of iron and chromium ions.

Institute of Chemical Laboratory, Electrochemical Institute, USSR Academy of Sciences, Moscow.

SESSION A—6—1 : Biochemical Response of Brain and Nerves

(a) Studies on the Radiopharmacology of the Central Nervous System

S. J. Arbusov

The distribution of ^{35}S-labelled β-mercapto-ethylamine in the nervous system has been investigated. Three hr after administration, the concentration in the cerebral cortex was found to be higher than that in other tissues. At 6 hr, the amount in the sub-cortical tissues had increased, while, at 24 hr, the drug was concentrated in the brain stem. This drug was found to depress the process of excitation in the cerebral cortex. The sulphur-containing radio-protectors were found to have a sedative action.

Imidasole 2-carbonic acid compounds, owing to their sedative action, prevent both excitation and inhibition in the central nervous system, and so protect against radiation injury. Aminasine and phenatin have been found to reduce the extent of impairment, and shorten the time required for recovery of a number of unconditioned responses.

It is suggested that drugs which affect the passage of the nerve impulse should be investigated.

Department of Pharmacology, Military Medical Academy, Leningrad, USSR

report presented at the 2nd Intl. Congress of Radiation Research, Harrogate/Yorkshire, Gt. Brit. 5-11 Aug 1962

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ARBUZNIKOV, K. V.

Arbuznikov, K. V.

"The interrelationship of reactions of the brain and peripheral vessels in delayed consequences of skull and brain wounds." Chair of Normal Physiology, Krasnoyarsk Medical Inst, and Krasnoyarsk Regional Hospital for Invalids of the Patriotic War. Krasnoyarsk, 1956. (Dissertation For the Degree of Doctor in Medical Sciences).

Knizhnaya letopis'
No 34, 1956. Moscow.

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ARBUZOV, A.

Radiogram from aboard the "Kooperatsiia." Radio no.1:13 Ja '57.
(Radio, Shortwave)
(MLRA 10:2)

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ACC NR: AN7001733

SOURCE CODE: UR/9008/67/000/011/0001/0001

AUTHOR: Arbuzov, A. (Guards senior technical lieutenant, Military technologist first class)

ORG: none

TITLE: Military airfield kept in operation during a snowstorm

SOURCE: Krasnaya zvezda, no. 11, 13 Jan 67, p. 1, cols. 4-7

TOPIC TAGS: military airfield, airfield clearing

ABSTRACT: This is a description of the activity and equipment used to keep a military airfield in operation during a sudden snowstorm that raged three days. It is stated that there was no breakdown in the equipment. [NC]

SUB CODE: 15/ SUBM DATE: none/ ATD PRESS: 5109

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ARBUZOV, A.N.

Our experience in organizing school tractor and field crop team. Politekh. obuch. no.5:44-49 My '58. (MIRA 11:5)

1.Zmiyevskaya srednyaya shkola Sverdlovskogo rayona Orlovskoy oblasti.

(Field work (Educational method))

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"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101910020-7

ARBUZOV, A.N.

Rural schools and their part in the future development of collective farming. Politekh. obuch. no.9:12-13 S '58. (MIRA 11:10)

1. Direktor Zmiyevskoy sredney shkoly Sverdlovskogo rayona orlovskoy oblasti.
(Sverdlovskiy District--Technical education)

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"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101910020-7

ARBUZOV, A. YA.

USSR/Medicine - Nervous System, Effects of Drugs on — Sep/Oct 48

Medicine - Nervous System, Physiology

"Effects of Antagonism and Synergism Between Drugs and Sympathomimetic Amines on the Action of the Central Nervous System of Vertebrates: II, Changes in the Latent Period of Reflex and Body Temperature Under the Influence of Sympathomimetic Amines, and Their Stimulating Action in Comparison to Drugs," A. Ya. Arbuzov, Chair of Pharmacol, Mil Med Acad imeni S. M. Kirov, 12 pp

"Fiziol Zhur SSSR" Vol XXXIV, No 5

34/49T20

USSR/Medicine - Nervous System, Effects of Drugs on (Contd) — Sep/Oct 48

Describes experiments on rabbits. Narcotics used were chloral hydrate and medinal. Amines used were adrenalin, pervitin, phenamin, ephedrin, and sympathol. Results are tabulated, plotted and discussed. Submitted 15 Feb 47.

34/49T20

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1ST AND 2ND ORDERS

3RD AND 4TH ORDERS

PROCESSES AND PROPERTIES INDEX

CA

10

Acetal of camphor. A. E. Arbuzov. *J. Russ. Phys.-Chem. Soc.* 61, 1595-7 (1929).—Acetal of camphor was first obtained in 1908 from camphor and $HC(OEt)_3$ in alc. in presence of H_2SO_4. Besides, a product b_{15} 82-3° was obtained, supposedly a compd. of camphor and alc. Other investigators (C. A. 21, 1807) repeated these expts. and stated that the above was a mixt. of $HC(OEt)_3$ and camphor. In more recent work Arbuzov failed to obtain a definite fraction b. 82-3°, and states that, apparently, the above compd. was not formed. However, he also failed to obtain a fraction contg. $HC(OEt)_3$. The yield of camphor acetal was 64.4% of the theoretical, others obtained 25-30%. It is very stable, but in presence of acid, water splits it easily into alc. and camphor.

Robert Schless

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1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

3RD AND 4TH ORDERS

CO

10

Phosphonocarboxylic acids containing an asymmetrical phosphorus atom. A. E. Arbuzov and B. A. Arbuzov. *J. Russ. Phys.-Chem. Soc.* 61, 1599-607(1929).—Kizller attempts to prep. optically active isomerides of phosphinic acid derivatives are briefly summarized, and the prepn. of *phenylphosphonoacetic acid*, HOP(OPh)-CH_2CO_2H and *phenyl-α-phosphonopropionic acids*, HOP(OPh)CHMeCO_2H, is described. Phenylphosphonoacetic acid, m. 121.5-2.5°, was obtained as the Et ester, b. 195-8°, d_4 1.1222, by the action of diisobutyl phenylphosphite, $PPh(OC_4H_9)_2$, b. 155.5° (from phenyl chloride and iso-BuONa), on $BrCH_2CO_2Et$. The alkaloid salts of the acid could not be resolved into optically active components. *Phenyl-α-phosphonopropionic acid*, m. 108-9°, was prepd. by the same method as the Et ester, b. 191-3°, d_4^0 1.10535, from diisobutyl phenylphosphite and MeCHBrCO_2Et.

B. C. A.

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1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

Phosphinic acids containing an asymmetrical phosphorus atom. A. E. ARBUZOV AND IRENE A. ARBUZOVA. *J. Russ. Phys.-Chem. Soc.* 61, 1905-8(1929).—Phenylisobutylphosphinic acid and phenyltriphenylmethylphosphinic acid were synthesized and unsuccessful attempts made to resolve them into optical isomerides by salt formation with alkaloids. *Phenylisobutylphosphinic acid*, m. 64-5°, was obtained by the action of iso-BuI on the ester $PPh(OC_2H_5)_2$ at 100° in a sealed tube. It did not give crystallizable salts with alkalies or alkaloids. The ester $PPh(OC_2H_5)_2$ and Ph_3CBr under similar conditions yielded *phenyltriphenylmethylphosphinic acid*, m. 287-8°, which gave cryst. salts with the alkali metals but not with alkaloids. B. C. A.

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1st and 2nd orders

Processes and properties index

3rd and 4th orders

BC

ARBUZOV, A.Ye.

a-3

Common elements index

Materials index

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

Materials index

Fe groups

3rd and 4th orders

2nd letter

Author index

1st and 2nd letter

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"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000101910020-7

1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

3RD AND 4TH ORDERS

CO

10

Preparation of thiophosphinic acids containing asymmetric phosphorus. A. E. ARBUZOV AND G. KH. KAMAI. *J. Russ. Phys.-Chem. Soc.* 61, 2037-42(1929).—Various acids of the types PRR'SOH and PRR'SSH have been prepd. with the object of obtaining them in optically active forms. The only one to be obtained cryst. is phenylbenzylmonothiophosphinic acid, which is being investigated further. $PPh(SEt)_2$, $b_{1.5}$ 143-4°, d_0^0 1.1417, prepd. by treating mercaptan (1 mol.) in ether with Na and phosphenyl chloride (0.5 mol.), forms a cryst. compd. with CuBr. At 150° it combines with S giving rise to the compd. $C_{16}H_{15}S_3P$, $b_{1.5}$ 191-2°, d_0^0 1.2201, which is hydrolyzed by EtONa to the cryst. *salt*, PPhS(SEt)ONa, but the corresponding acid could not be obtained cryst. When heated with EtI in a sealed tube at 130°, the thio ether, $PPh(SEt)_2$, undergoes isomerization to form PPhEt(SEt):S, $b_{1.5}$ 169-70°, d_0^0 1.1693, which, with EtONa, gives the cryst. *Na phenylethylmonothiophosphinate*, PPhEt(ONa):S, but the corresponding acid was obtained only as a sirup. The *isobutyl ether*, $PPh(SC_4H_9)_2$, $b_{12.5}$ 191-2°, d_0^0 1.0637, forms $S:PPh(SC_4H_9)_2$, with flowers of S, and, when treated with $BrCH_2CO_2H$, yields a product giving the cryst. Na salt, S:PPh(ONa)-CH_2CO_2Na; the corresponding acid and its cinchonine and brucine salts did not crystallize. The action of $ICH_2CH_2CO_2Et$ on the thio ether, $PPh(SC_4H_9)_2$, gives $C_{18}H_{17}O_2S_2P$, $b_{1.5}$ 200-6°, but hydrolysis of this failed to give a cryst. acid. Treatment of the thio ether, $PPh(SEt)_2$, with $PhCH_2Cl$ at 200° gave $S:PPh(CH_2Ph)Sh$(?) m. 145-6°, and an oily *compd.* $S:PPh(CH_2Ph)SEt$, b_1 210-8°, d_0^0 1.1820. The action of $PhCH_2Cl$ on the ether $PPh(SC_4H_9)_2$ at 210° gave the compd., m. 145-6°, similarly obtained from the ether, $PPh(SEt)_2$, but vacuum distn. of the residue led to rapid decompn., so that this residue was hydrolyzed directly, with formation of *phenylbenzylmonothiophosphinic acid*, $S:PPh(CH_2Ph)OH$, m. 173-4°. B. C. A.

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1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

22

Laboratory dephlegmatic columns for distillation of turpentine. A. K. ARBUZOV. *Zhur. Prikladnoi Khimii* 3, 99–103(1930).—Improved lab. app. is described.
V. KALICHEVSKY

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PROCESSES AND PROPERTIES INDEX

10

n-Butyl ester of phosphoric acid. A. Arbuzov and I. Arbuzova. *J. Russ. Phys.-Chem. Soc.* 62, 1533-6(1930).—By acting with PCl_3 on BuONa was obtained tri-Bu phosphite, $P(OBu)_3$ (I), identical with the product prepd. by Milobedzki and Sachnowski (*C. A.* 13, 2805) by the interaction of BuOH, PCl_3 and C_5H_5N. The action of BuI on I gives the isomeric di-Bu butanephosphonate, $BuPO(OBu)_2$ (II), which when sapond. with HCl produces butanephosphonic acid, (III). *Expl. part.*—First was prepd. BuONa by heating on the water bath 950 g. of freshly distd. *n*-BuOH, b. 117°, with 70 g. of metallic Na, then, while cooling, were added Et_2O and PCl_3, the Et_2O was expelled, and the reaction product on distn. gave at 9 mm and 180° (temp. of glycerol bath) 174 g. (68.6%) of crude I. Close fractionation being impossible, the fraction b_7 116–39° (97 g.) was added to 4.5 g. of Na wire suspended in dry Et_2O, then heated 1 hr. on the water bath, poured off from unchanged Na, and redistd., producing 27.6% of I b_6 119.5–20°, d_0^0 0.9309, d_0^{17} 0.9201. In the distg. flask there remained P(OBu)ONa. When 1.28 g. of Br is added to 2 g. of I and then distd. there is obtained 1.83 g. (91.5%) of C_4H_9Br, b. 98°. The isomerization of I to II is effected on heating 8 hrs. at 150–60° in a sealed tube a mixt. of 20 g. of I and 12 g. of freshly distd. BuI (b. 129–31°); the reaction product on redistg. gives 11.80° g. of II, b_{16} 150–51°, d_0^0 0.9634, d_0^{17} 0.9520, colorless and odorless liquid. II is sapond. to III on heating 5 hrs at 170° in a sealed tube a mixt. of 6.3 g. of II and 2 vols. of HCl (1:1); the upper layer of BuCl, in theoretical yield, was sepd., and the aq. soln. was repeatedly evapd. with H_2O on a water bath, the heavy mass was treated with H_2O, the sepd. crystals filtered off, boiled in H_2O with animal charcoal, filtered, and evapd. to dryness; yield of crude III 3.55 g., m. 89–90°; recrystd. from ligroin and dried over H_2SO_4 it m. 101–3°; the acid is dibasic.

Chas. Blanc

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PROCESSES AND PROPERTIES INDEX

Free radicals. A. E. Arbuzov. *Uspekhi Khim.* (*Progress Chem.* (U. S. S. R.)) 1, 190-253(1932).—A review of the work done on the triphenylmethyl and tetraphenylhydrazine types of free radicals with a physicochemical discussion. F. H. Rathmann

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PROCESSES AND PROPERTIES INDEX

Reducing action of organic magnesium compounds. The action of cyclohexylmagnesium bromide and cyclohexylmagnesium iodide on benzophenone. A. E. Arbuzov and I. A. Arbuzova. *J. Gen. Chem.* (U. S. S. R.) **2**, 388-96(1932), cf. Tolstopyatov and Sverdlova, preceding abstract.—The results obtained by the action of $C_6H_{11}MgBr$ and $C_6H_{11}MgI$ on Ph_2CO fully confirm the view that the 1st products of interaction of org. Mg compds. with aldehydes and ketones are free radicals with trivalent C of the type of the metal ketyls of Schlenk (C. A. **5**, 2839; **8**, 113, 1580; **22**, 4493) $RR'CO + XMgR^{\circ} \longrightarrow RR'(XMgO)C \ldots + R^{\circ} \ldots$ The product of interaction of Ph_2CO and $C_6H_{11}MgBr$ was redistd. *in vacuo* and each fraction recrystd., giving 30.7% Ph_2CO, m. 49°, 5.9% benzohydrol (III) m. 67-7.5°, 13.4% benzopinacol (II), m. 185-6°, and 9% cyclohexylidenediphenylmethane (IV), m. 84-5° (% is based on the amt. of Ph_2CO used in the reaction). The formation of these products can be explained by the scheme: $Ph_2CO + C_6H_{11}MgBr \longrightarrow Ph_2(BrMgO)C \ldots + C_6H_{11}$. The recovered Ph_2CO may be the result of oxidation with O_2 of the above ketyl and of some unchanged Ph_2CO. By addn. of C_6H_{11} to ketyl and decompn. with H_2O is produced an alc. which on distn. loses H_2O and gives IV: $Ph_2C(OMgBr)C_6H_{11} + H_2O \longrightarrow Ph_2C(OH)C_6H_{11} - H_2O \longrightarrow Ph_2C{:}C_6H_{10}$. By the combination of 2 ketyl radicals and the action of H_2O is produced II. By mutual oxidation and reduction of C_6H_{11} and ketyl must be formed C_6H_{10} and benzohydrolate: $Ph_2(BrMgO)C \ldots + C_6H_{11} \ldots \longrightarrow Ph_2CH(OMgBr) + C_6H_{10}$. The interaction of Ph_2CO and $C_6H_{11}MgI$ produced 16.9% Ph_2CO, 21.9% II, 7.7% dicyclohexyl (V), b. 96-7°, 1.26% diphenylcyclohexylcarbinol (VI), m. 71°, 5.1% IV, and 3.6% tetraphenylethane (VII), m. 211-1.5°, and no III. Thus Ph_2CO with $C_6H_{11}MgI$ gives V and VII, not obtained with $C_6H_{11}MgBr$. The formation of V may be thus explained: Under the conditions used the intermediate C_6H_{11} and $Ph_2(IMgO)C \ldots$ do not undergo the reaction of mutual oxidation and reduction as in the case of $C_6H_{11}MgBr$ but combine

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thus: $2Ph_2(IMgO)C \ldots + 2C_6H_{11} \longrightarrow C_6H_{11}C_6H_{11} + Ph_2C(OMgI)C(OMgI)Ph_2$, which may explain the formation of much II and none of III. The formation of VI is difficult to explain; it must be caused by reduction, the required H_2 being probably split from C_6H_{11}.

CHAS. BLANC

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CA

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Catalytic decomposition of the hydrazone of ethyl ketone. A. K. ARBUZOV AND V. A. ROTKARMEL. *J. Gen. Chem.* (U. S. S. R.) 2, 397-8(1932).—By the method of A. and Friauf (*C. A.* 7, 3590) the catalytic decompn. of Et ketone phenylhydrazone (I) gives *methylethylindole* (II). A mixt. of 0.07 g. of $ZnCl_2$ and 75 g. of freshly prepd. I, b_{10} 144°, was heated in a metal bath from 180° to 225°, the cryst. residue in the reaction flask was distd. at 11 mm. pressure; the fractions b_{11} 150–65° (40 g.) and 170–5° (3 g.) were combined and redistd., giving 46 g. (69% yield) of II, b_{10} 153°, m. 50.5°; the dipicrate m. 150.5°.

CHAS. BLANC

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1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

CR

10

Z-Пентозаны. A. K. Arbuzov and B. P. Lugovkin. Rus. 31,434, Oct. 31, 1939.—Pentosan-contg. substances are heated under pressure in a dild. phosphoric acid soln.

COMMON ELEMENTS

MATERIALS INDEX

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CA

10

PROCESSES AND PROPERTIES INDEX

Dibutylphosphorous acid chloride and preparation of butylpyrophosphorous acid from it. A. E. Arbuzov and V. S. Abramov. *Trans. Butlerov Inst. Chem. Tech. Kazan* No. 1, 28-33(1934).—The previous work on the esters of various P acids is discussed (cf. Arbuzov and Arbuzova, *C. A.* 25, 2414, 3018; 26, 82, 2168). The method of prepn. of dialkylphosphorous acid chlorides was improved by producing first $BuOPCl_2$ (I) from PCl_3 and BuOH (cf. Menshutkin, *Ann. chim.* 139, 343), which with BuONa is then converted to $(BuO)_2PCl$ (II). II with $(BuO)_2PONa$ gives butylpyrophosphorous acid, $(BuO)_2P.O.P(OBu)_2$ (III). A yield of 173 g. (about 50%) of I, b_{15} 66-7°, resulted by dropping, with mech. stirring, 148 g. BuOH into 275 g. PCl_3 (the yield of I is reduced to 32.85% by dropping BuOH alongside of the flask walls instead of directly into PCl_3). II, b_9 91.5-2.5°, d_4^{20} 1.014, n_D^{20} 1.445, was obtained in 35 g. yield by introducing, with const. stirring, a calcd. amt. of BuONa, triturated in dry Et_2O, into 173 g. of I in Et_2O. Five g. of III, b_7 175-6°, d_4^{20} 0.9908, n_D^{20} 1.4451, resulted by dropping 13 g. of II into $(BuO)_2PONa$ (from 1.4 g. Na in 120 cc. of dry Et_2O and 10.9 g. $(BuO)_2POH$). III with H_2O is decomposed into 2 mols. of $(BuO)_2POH$, and with Br_2 gives a tetra-Br product. Chas. Blanc

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1ST AND 2ND ORDERS

3RD AND 4TH ORDERS

CA

10

PROCESSES AND PROPERTIES INDEX

Catalytic decomposition of ethyl propyl ketone phenylhydrazone. A. E. Arbuzov and I. A. Zaltzev. *Trans. Butlerov Inst. Chem. Tech. Kazan* No. 1, 33-8(1934); cf. *C. A.* **27**, 291.—EtPrC:NNHPh, b_{12} 153°, d_4^{20} 0.9832 (51 g.), was heated with 0.1 g. Cu_2Cl_2 at 200-50° and thrice redistd. *in vacuo*, giving 21 g. of a product, b_{11} 167°, d_4^{20} 1.0243, analyzing for $C_{12}H_{15}N$, and may be either 2,3-diethylindole or 2,3-propylmethylindole. The picrate m. 144° and analyzes for $C_{12}H_{15}N.C_6H_2(NO_2)_3OH$. C. B.

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