

Mamedli, M. G.
SYNTHETIC OILS FROM CRACKED DISTILLATES

[1961] 8p. 12 refs.
Order from OTS or SIA \$1.10 61-16984

Treat. of Zhurnal Prikladnoi Khimii (USSR) 1943, v. 16,
p. 143-150.

DESCRIPTORS: *Lubrication, *Oils, *Waxes, Decom-
position.

The best lubrication oils, satisfying the requirements
for aviation oils with respect to viscosity index, oxidation
stability, low pour point and low specific gravity,
as well as high flash point, are obtained from products
of cracking of heavy wax. Polymerization of cracked
distillates to synthetic lubricating oils in the presence
of aluminum chloride takes place not only at low tem-
peratures (25-100°). The qualitative and quantitative
characteristics are identical in both cases. At the
(Chemistry - Organic, 11: v. 6, no. 5) (over)

61-16984

I. Mamedli, M. G.

1127

Office of Technical Services

Oxidation of Nicotine to Nicotinic Acid,
by N. A. Vagyunina et al, UNCLASSIFIED

RUSSIAN, par, Zhur Prikl Khim, Vol XVI, No 5-6,
1943, pp 206-210.

Assoc Tech Ser
6812R

Price: \$10.00 (\$1.25)

Scientific - Chemistry

18,098

Sumarokov, V. P., Rylkin, S. S., and
Bogoyavlenskaya, V. N.
PREPARATION OF PYROCATECHOL BY DECOMPO-
SITION OF PHENOL ETHERS OF WOOD CREOSOTE
UNDER ATMOSPHERIC PRESSURE. I. [1961] 8p.
9 refs.

Order from ODS or SLA \$1.10 CI-18149

Trans. of Zhurnal Prikladnoi Khimii (USSR) 1943,
v. 16, p. 217-220.

DESCRIPTIONS: Pyrocatechol, Ethers, Wood, Creosote
Synthesis.

Experiments of preparation of pyrocatechol from two
samples of creosote with the aid of sulfuric hydrochlor-
ide are reported, in which it was established that: (1)
practically complete decomposition of the phenol ethers
of creosote may be achieved by this method; (2) the re-
action requires more time than the action of hydro-
(Chemistry--Organic, TT, v. 6, no. 6) (over)

CI-18149

- I. Sumarokov, V. P.
- II. Rylkin, S. S.
- III. Bogoyavlenskaya, V. N.

176601

Office of Technical Services

Mercuric Trisulfide, by S. V. Lipin, 22 pp.

RUSSIAN, Izv. Khim. Prikl. Khim., # Vol XVI, No 7-8,
1941, pp 250-259.

CIA/RDD X-2794

Sol. Chem.
Mar 58

60,686

61-16911

Hsafev, V. I.
QUALITATIVE ANALYSIS OF DIENE HYDROCARBONS WITH CONJUGATED DOUBLE BONDS. III. [1961] 10p.
8 refs.
Order from CTS or SLA \$1.10 61-16911

Trans. of Zhurnal Prikladnoi Khimii (USSR) 1943,
v. 16, p. 283-294.

DESCRIPTORS: Isoline, *Hydrocarbons, *Molecular structure, Chemical reactions, *Ethylenes, Halogenation.

Bromination in carbon tetrachloride was shown by precise data to be a specific reaction only for those diene hydrocarbons, the molecules of which possess one, or still better, two side chains attached to the carbon atoms of the conjugated system. In the last mentioned case the reaction is accompanied by evolution of considerable amounts of hydrogen bromide and con-
(Chemistry-Physical TT, v. 6, no. 8) (over)

150124

Office of Technical Services

61-14012

Kurasanov, D. N. and Solodkov, P. A.
NEW METHOD OF OBTAINING COLORED DERIVA-
TIVES OF CELLULOSE. [1943] 9p. (conclusions
illus. omitted).

I. Kurasanov, D. N.
II. Solodkov, P. A.

Order from KTS of SIA \$1.10 61-14012
ATS #8.25 (SFA) ATS-74072R
Trans. of Zhurnal Prikladnoi Khimii (USSR) 1943, v. 16,
no. 11/12, p. 351-359

DESCRIPTORS: Cellulose chemistry, *Cottoncellulose,
*Synthetic fibers, *Text. Colors, *Ammonium radicals,
*Exchange reactions, *Pigments

184013

Office of Technical Services

61-16894

Andreev, E. A., Avramenko, V. I. and others.
PREPARATION OF ALDEHYDES BY OXIDATION OF
BY-PRODUCTS OF SYNTHETIC RUBBER MANU-
FACTURE. I. COOL FLAME OXIDATION OF SK
MOTOR FUEL. [1961] 9p. 7 refs.
Order from KITS on SIA \$1.10 61-16894

- I. Andreev, E. A.
- II. Avramenko, V. I.
- III. Title: Cool...

Trans. of Zhurnal Prikladnoi Khimii (USSR) 1963, v. 16,
p. 356-366.

DESCRIPTORS: *Synthetic rubber, Oxidation, *Alde-
hydes, Hydrocarbons, Flames, Fuels, Fungicides.

Optimal temperature conditions were established for
operation of a semi-plant scale unit for low temperature
oxidation of hydrocarbons obtained as by-products of
the production of 1,3-butadiene from ethyl alcohol (K
Motor Fuel). In the vaporizer and air preheater, a tem-
perature of 200° is to be maintained, and in the reac-
tor a temperature of from 400 to 420°. Up to 96% of

135119

(Office of Technical Services)

(Chemistry-Physical, TT, v. 6, no. 8) (over)

Stability and Volatility of Tin Oxides, by V. K.
Vesalovskiy, 29 pp.

RUSSIAN, per, Soviet Phys. Chem., Vol. XVI, 1942,
pp 391-398. 9095512

AEC UCHL Tr-821(1)

Sci - Chem
Jul 68

204, 688

Structure and Germicidal Properties of Organic Com-
pounds. Communication I. Derivatives of Hydroxydi-
phenyl, by N. M. Mel'nikov, N. S. Mokitskaya, Z. E.
Bekker, 12 pp.

RUSSIAN, no par, Zhur Prik Khim, Vol XVI, No 9-10,
1943, pp 426-432.

36,111
Sci Tr Center RT-3602

Scientific - Chemistry

Jun 56/dec

Resistance of Gas-Chromized Carbon Steel to Corrosion by Sulphur-containing Media, by V. I. Arkharov, and other.

RUSSIAN, per, Zhar Prii Khim, Vol XVI, Nos 11, 12, 1943.

Brutcher Tr 1725

Scientific - Chemistry
~~XXXXXXXX~~

\$1.95

12,848

Combined Solubility of Li_2CO_3 with Na or
K Carbonate in Water, by G. I. Urazov and
Z. I. Lifatova, 7 pp.

RUSSIAN, per, Zhur Prikl Khim, Vol XVII,
1944, pp 16-21.

SLA R-2434

Sci

Aug 58

72,143

Ushakov, S. N. and Matuzov, N. A.
COPOLYMERIZATION OF CHLOROSTYRENES WITH
STYRENE AND WITH METHYL METHACRYLATE.

[1961] 6p. 3 refs.
Order from CTS or SLA \$1.10 61-16904

Trans. of Zhurnal Prikladnoi Khimii (USSR) 1944,
v. 17 [no. 1] p. 57-59.

DESCRIPTIONS: *Copolymerization, *Styrenes,
Chlorides, *Acrylic resins, Chemical reactions.

The velocity of copolymerization of chlorostyrene
with styrene and with methyl methacrylate depends
upon the proportions of the reactants. The higher is
the content of the monomer in the reaction mixture,
which is characterized by a higher velocity of poly-
merization, the greater is the velocity of copolymeri-
zation. In copolymerization of p-chlorostyrene with
styrene the reaction velocity increases in proportion to
(Chemistry--Organic, IT, v. 6, no. 8) (over)

61-16904

I. Ushakov, S. N.
II. Matuzov, N. A.

135122

Office of Technical Services

Lel'chuk, S. L., Balandin, A. A. and others.
DEHYDROGENATION OF ETHYL ALCOHOL OVER
MIXED CATALYSTS. [1961] Sp. 8 refs.
Order from OTS or SLA \$1.10

61-16907

Trans. (Zhurnal) Prikladnoi Khimii (USSR) 1944,
v. 17 (no. 1/2) p. 60-64.

DESCRIPTORS: Dehydrogenation, *Catalysts,
*Ethanol, Esters, Esterification, Chemical reactions,
Ethyl radicals, Acetates, Acetic acids, Titanium
compounds, Oxides

Dehydrogenation of ethanol was studied, leading to for-
mation of substantial amounts of acetic acid and ethyl
acetate. Three-component catalysts were investigated
for this reaction, consisting of copper and alumina pro-
moted with oxides of cadmium or titanium. The cata-
lyst promoted with cadmium oxide has no advantages
over the two-component catalyst, consisting of copper
(Chemistry-Organic, TT, v. 6, no. 4) (over)

61-16907

I. Lel'chuk, S. L.
II. Balandin, A. A.

135125

Office of Technical Services

Microcolorimetric Determination of Vanadium in
Fibres, Minerals, and Ores by Means of Benzidine.
by I. P. Alsharin, 12 pp.

RUSSIAN, per: Zhur Prikl Khim, Vol XVII, 1944,
p 83-93.

SLA R-3099

Sci

Jul 59

91.393

Yakubchik, A. I., Vasil'ev, A. A. and others.
CHEMICAL CHARACTERISTICS OF BUTADIENE
RUBBERS BASED ON DETERMINATION OF FORMIC
ACID AND FORMALDEHYDE IN THE PRODUCTS OF
DECOMPOSITION OF THEIR OZONIDES. [1961] 6p.
33 refs.

Order from OTS or SLA \$1.10 61-14908

Trans. of Zhurnal Prikladnoi Khimii (USSR) 1944, v. 17
(no. 7) p. 107-113.

DESCRIPTORS: *Rubber, Decomposition, Ozonides,
Butadienes, Formaldehyde, *Synthetic rubber, Formic
acids

A rapid method of classification of butadiene polymers
and their copolymers, for instance with styrene, was
developed, based on correlation of the properties of the
rubber with the number of vinyl linkages in the rubber
molecule indicated by ozonization. Data for 14 types of
(Materials--Rubber, TT, v. 6, no. 9)

61-16908

I. Yakubchik, A. I.
I. Vasil'ev, A. A.

105404

Office of Technical Services

Ushakov, S. N., Lavrent'eva, E. M. and others.
POLYVINYL ACETATE COATINGS FOR MAKING
CONCRETE IMPERMEABLE TO GASOLINE. [1962]
9p. 17 refs.

Order from OCS or S.L. \$1.10

62-14612

Trans. of National Prikladnoi Khimii (USSR) 1944,
v. 17 [no. 1] p. 125-136.

DISSEMINTAGE: *Gasoline, Permeability, *Concrete,
Coatings, *Acetals, *Polymers, *Vinyl radicals,
*Plastic coatings.

The mechanical strength, swelling, permeability to
water and gasoline were determined of films of poly-
vinyl acetate and polyethyl acetate, free and in the form
of coatings on concrete. The dependence of the proper-
ties of the coatings upon the extent of polymerization
and the nature of the substituent in the acetate of poly-
vinyl alcohol, as well as upon the extent of plastifica-
(Chemistry of Physical, 1944, v. 9, no. 1) (over)

62-14612

I. Ushakov, S. N.
II. Lavrent'eva, E. M.

Office of Technical Services

63-15134

Suvorovskaya, N. A.
DETERMINATION OF IRON IN ALUMINATE
SOLUTIONS BY POLAROGRAPHIC METHODS, tr. by
Ingilbert V. Baker and George M. Kostroff. 1 Jun 63,
63-16 ref. (AMC) (Redstone) Trans-no. 1-63.
Order from OITS of SLA \$1.10 63-15134

I. Suvorovskaya, N. A.
II. AMC (Redstone) Trans-1-63
III. Army Missile Command,
Redstone Arsenal, Ala.

Trans. of Zhurnal Prikladnoi Khimii (USSR) 1944,
v. 17, no. 10, p. 157-58.

DESCRIPTORS: *Aluminates, Solutions. *Iron,
*Polarographic analysis, Iron compounds, Sulfides,
Complex compounds.

This work demonstrates the practicability of using the
polarographic method of analysis for determination of
iron in aluminate solutions. The iron is precipitated in
the form of sulfide, dissolved in hydrochloric acid, and
reduced by sulfur dioxide during boiling of the solution
(Chemistry--Analytical, TT), v. 10, no. 2 (over)

Office of Technical Services

Determination of Phosphorus in Limestones
by Titration of Excess 8-Hydroxyquinoline,
by P. O. Budnikov and S. S. Zhukovskaya,
7 pp.

RUSSIAN, per, Zhur Prik Khim, Vol XVII, 1944,
pp 165-169.

SLA R-2541

Sci:

Aug 58

72, 803

2
Action of Na_2SO_4 on the Decomposition of
Specimens of Fusion with K_2SO_4 , by G. P.
Aleksandrov, 6 pp.

RUSSIAN, per, Zhur Pri: Khin, Vol XVII,
1944, pp 183-187.

SLA R-2435

Sci

Aug 58

172,118

The Reduction of Germanium Compounds at the Dropping
Mercury Electrode., by I. P. Alkharin, B. N. Ivanov-gmin,

(113)
RUSSIAN JOURNAL OF CHEMISTRY, 1953, Vol XVII, p. 204, 1953

Sci No, Lib 53/2668

11, 132

Chemical
C-11/112

<p>Pakshver, A. and Zlatoustovskaya, A. OXIDATION OF AMMONIA IN SOLUTIONS OF COM- PLEX COPPERAMMONIUM COMPOUNDS. [1961] [9]p. 7 refs. T/L 724: [DSR LLU M 2066] Order from LC or SIA ml\$1.80, pi\$1.80 61-13423</p>	<p>61-13423</p>
<p>Trans. of Zhurnal Prikladnoy Khimii (USSR) 1944, v. 17, p. 257-265</p>	<ol style="list-style-type: none"> 1. Ammonia--Oxidation 2. Complex compounds-- Chemical reactions 3. Copper compounds-- Chemical reactions 4. Cellulose--Oxidation <p>I. Pakshver, A. II. Zlatoustovskaya, A. III. Trans-T/L-724 IV. DSR LLU M. 2066</p>
<p><i>See Manual for 4/2/66</i></p>	<p>10659.</p>
<p>(Chemistry--inorganic, TT, v. 5, no. 12)</p>	<p>Office of Technical Services</p>

Pakshver, A. and Zlatoustovakaya, A.
THE OXIDATION OF AMMONIA IN SOLUTIONS OF
COMPLEX CUPRAMMONIUM COMPOUNDS. [1961] 12p
Specs

Order from: OTS, SLA, or ETC \$1.60 TT-64-10771

Trans. of Zhurnal Prikladnoi Khimii (USSR) 1944, v. 17,
no. 4/5, p. 259-265.

Another trans. is available from LC or SLA at \$1.80,
plus \$1.80 as TT-61-13423 [1961] [9p].

TT-64-10771

L Pakshver, A.
IL Zlatoustovakaya, A.

(Chemistry--Inorganic, TT, v. 11, no. 12)

Office of Technical Services

Rapid Method for the Analysis of NH_4NO_2 in
Hydrated Form, by V. G. Vasil'ev, 10 pp.

RUSSIAN, per, Zhur Prik Khim, Vol XVII, 1944,
pp 266-273.

SLA R-2436

Sci

Aug 58

72,116

62-28788

Amelin, A. G.
SULPHURIC ANHYDRIDE ABSORPTION WITH WATER
SULPHURIC ACID SOLUTIONS (Absorbtsiya Serogo
Angidrida Vodnykh Rastvorami Serogo Kisloty). 17p.
(foreign text included) 7 refs, DTC-1.
Order from OIS, ETC or DTC \$1.30 62-28788

- I. Amelin, A. G.
- II. DTC-1
- III. Danish Translations
Centre, Roskilde

Trans. of Zhurnal Prikladnoi Khimii (USSR) 1944,
v. 17 [incl. 6] p. 319-325.

DESCRIPTORS: *Sulfuric acid, *Anhydrides,
*Absorption, Solutions, Experimental data.

(Chemistry--Physical, TT, v. 10, no. 2)

Office of Technical Services

Complex Treatment of Appetite with Hydrochloric Acid, by S. I. Volkovich and A. Logunova, 17 pp.

RUSSIAN, per, Zhur Prik Khim, Vol XVII, 1944, pp 381-393.

SLA R-2149
CSC 63-14640

Sci

Aug 58

72, 154

e.
Improvement in the Manufacture of Sodium
Fluorosilicate II. Solubility of Sodium
Fluorosilicate, by K. E. Kleiner, 10 pp.

RUSSIAN, per, Zhur Prik Khim, Vol XVII,
1944, pp 409-416.

SLA R-2152 also 63-14616

Sci

Aug 58

72,428

Polymerization of Chlorostyrenes, by S. N. Ushakov, XX
P. A. Matukov, 16 11) UNCLASSIFIED

RUSSIAN, per, Zhur Prik Khim, Vol XVII, No. 2, 1941, pp. 435-444

7/3

F I

Sci Tr Center
RE-1017

Scientific - Chemistry

15,348

61-18218

Driaberg, A. Ya. and Krotchov, P. P.
RESINS AND VARNISHES FROM SUBSTITUTED PHENOLS OBTAINABLE FROM PEAT TAR. [1961] Sp. 15 refs.

I. Driaberg, A. Ya.
II. Krotchov, P. P.

Order from CTS or SLA \$1.10 61-18218

Trans. of Zhurnal Prikladnoi Khimii (USSR) 1944, v. 17, p. 458-462.

DESCRIPTORS: Resins, Varnishes, Phenols, Peat, Substitution reactions.

25138

The possibility was demonstrated of preparing a resin and a varnish of quality not lower than that prepared from pure alkyl phenols, using widely differing alkylated phenols from peat. Addition of about 30% of a mixture of cresols to tertiary butylphenol lowers the quality of the varnish obtained. (Author)

(Materials--Finishes, TT, v. 6, no. 8)

(Office of Technical Services)

Kmelevskii, V. I. and Postovskii, I. Ya.
METHOD OF INVESTIGATION AND ANALYSIS OF
COMPOUNDS OF CRUDE ANTHRACENE AND
OTHER HIGH-BILLING FRACTIONS OF COAL TAR.
Rept. 10 on Polycyclic Hydrocarbons. [1961] 13p.
(1 fig. omitted) 24 refs.
Order from OTS or SLA \$1.60

61-209:9

Trans. of [Zhurnal Prikladnoi Khimii] (USSR) 1944,
v. 17, p. 663-671.

DESCRIPTORS: *Hydrocarbons, *Anthracenes, *Coal
tar, Boiling, Fractionation.

(Chemistry--Organic, TT, v. 7, no. 9)

61-20929

I. Kmelevskii, V. I.
II. Postovskii, I. Ya.
III. Title: Polycyclic...

Office of Technical Services

62-14157

JOURNAL OF APPLIED CHEMISTRY, 1944, VOL. 17, NO. 9/10. TABLE OF CONTENTS AND SELECTED ABSTRACTS. (1944) (p. 11 refs.)
Order from ODS or SLA \$1.10

62-14157

Abstract trans. of Zhurnal Prikladnoi Khimii (USSR) 1944, v. 17, no. 9/10, p. 487-494, 527-528.

#4533-537; #4552-536.

**Complete translations are available separately.

DESCRIPTORS: *Chemistry, Literature, Abstracting, Carbon, Adsorbents, Organic solvents, Vapors, Adsorption, Chlorination, *Allyl radicals, Pressure, *Explosives, *Combustion, Detonation waves, Production, Pyrocatechol, Synthesis, *Cresolates, *Phenols, Ethers, Decomposition, Activated carbon.

(Chemistry, TT, v. 1, no. 4)

(cover)

Office of Technical Services

Sulfate Nitrophosphate I. IV. Polymers of the Ternary System: Ammonium Sulfate, Water, Ammonium Monophosphate, by P. V. Dol'chev, A. G. Kargin, 9 pp.

RUSSIAN, paper, Zhur Prikl Khim, Vol. XVII, 1944, pp 520-526.

OTS 66-18075
SIA R-3355

Sci

Aug 59

73,578

The Problem of the Mechanism of Transition from
Burning to Detonation of Explosive Materials, by
N. K. Andreyev.

RUSSIAN, no per, Zhur Fizik Khim. Vol XVII,
No 9/10, 1944, pp 535-537.

T.I.L. 2.4681

Sci - Chemistry

36,926

Aug 1956

Polymerization of Chlorostyrenes, by S. N. Ushakov,
P. A. Matuzov, 15 pp UNCLASSIFIED

Rem 12

RUSSIAN, *Pril* Zhurnal Khim, Vol *XVII*, No *9/10*
1944, pp ~~1144-1150~~ *1144-1150*

1944 538-545

Sci Tr Center
NT-1018

Scientific - Chemistry

15,349

Conditions of Formation of Manganese Coatings
and Some of Their Properties, by K. Gorbunova.

RUSSIAN, per, Zhur Prik Khim, Vol XVII,
1948, pp 581-587.

CSIRO

Sci - Chem
Aug 62

207,419

61-18347

Globus, R. L., and Mozhchinskaya, N. K.
RESEARCH ON DIIPHENYL METHANE AND ITS DERIVATIVES. III. DESTRUCTIVE HYDROGENATION OF DIIPHENYL METHANE. (1961) (p. 1) refs.
Order from OCS of SIA \$1.10 (1-18347)

Trans. of Journal Prikladnaya Khimiya (USSR) 1944,
v. 17 (no. 11/12) p. 1723-1727.

DESCRIPTORS: *Diphenylmethane, Hydrogenation, Pressure, Decomposition, *Benzene, *Toluene, Synthesis, Catalysts, Catalytic Methanes, Phenyl radicals

Destructive hydrogenation of diphenylmethane under atmospheric pressure and under 100 atm. hydrogen pressure was studied. It was established that diphenylmethane can completely decompose to benzene and toluene: $C_{12}H_{10} + H_2 \rightarrow C_6H_6 + C_6H_5CH_3$.
(Author) (See also 61-18378)

I. Globus, R. L.
II. Mozhchinskaya, N. K.
III. Title: Destructive...

(Chemistry--Organic, TT, v. 1,
no. 10)

Office of Technical Services

CI 18215

- I. S. Ivanov, V. P.
- II. Rykin, S. S.
- III. Kurmuleva, E. E.

S. P. Ivanov, V. P. Rykin, S. S. and Kurmuleva,

PREPARATION OF PYROCATECHEL BY DECOM-
POSITION OF THE PHENOL ETHERS OF WOOD CREO-
SOL UNDER ATMOSPHERIC PRESSURE, II. [1961]

5p. 1. 1961
Order Code: OCS 01 SIA \$1.10 61-18215

Trans. of Zhurnal Khimicheskoi Khimii (USSR) 1944,
p. 17, 7, 152-153

MSC: 1100PS: 9 Pyrocatechol, Ethers, Wood, Cres-
sol, Synthesis

Experiments are reported of preparation of pyro-
catechol from creosote by the action of aluminum chlor-
ide under atmospheric pressure. It was found that a
practically complete decomposition of the phenol ethers
is possible, using approximately equimolecular amounts
of ether and aluminum chloride. This reaction is much
(Chemist's-Calendar, T.T. v. 6, no. 7) (over)

Office of Technical Services

Crystallization, Viscosity, Density
and Mutual Solubility of Some Solutions
of the System $\text{LiCl-H}_2\text{O-CCl}_4$, by V. I.
Slavynskii, 8 pp.
RUSSIAN, per, Khimicheskii Zhurnal,
Vol. 17, 1944, pp 570-575.
TC-399

336,423

Sci
Aug 67

61-18232

Platé, A. P. and Tarasova, G. A.
PREPARATION OF p-CYMENE FROM SULFATE
TURPENTINE. [1961] Sp. 15 refs.
Order from OTS or SLA \$1.10 61-18232

I. Platé, A. P.
II. Tarasova, G. A.

Trans. of Zhurnal Prikladnoi Khimii (USSR) 1944,
v. 17, p. 576-577.

DESCRIPTORS: *Cymenes, Catalysts, Toluenes,
*Turpentine, *Sulfate pulp, Chemical analysis.

Conversion of sulfate turpentine were investigated at
380-520° in the presence of mixed catalysts contain-
ing chlorophyll or chlorophyllidene sulfate carried on
alumina and also in the presence of a synthetic alumi-
nosilicate. In the presence of the first two of these
catalysts a yield of the cymene fraction was obtained
at 400° reaching 87% on the turpentine or 77% when
calculated on α -pinene and β -carene contained in the
(Engineering-Chemical, IT, v. 6, no. 12) (over)

Division of Technical Services

Dicaine, A Local Anesthetic, by I. Kh. Fel'dman,
E. I. Kpellovich, 12 pp.

RUSSIAN, per, Zhurnal Prikladnoi Khimii, Vol XVII,
Nos 11, 12, 1944, pp 588-593

Sci Trans Center RT-3406

Scientific - Chemistry

MEDICINE

32,715

Apr 56

Zhur Prikl Khim Vol 17, 1944 pp 594-598

Bismuth Electroplating, by A. I. Lawin

AEC Trans

Bismuth Electroplating, by A. Levin, 15 pp.

RUSSIAN per, Zhur Prikl Khim, Vol XVII, 1944, pp
613-618

SLA R-2761

Sci

Ve

Jul 59

92, 415

GORINOV, M. G.

Zhurnal Prikladnoi Khimii, vol. 17, Nos. 9-10, 9
Figures, 6 tables, 2500 words; 1944.

Corrosion Layers on Iron and Steel.

Butcher Tools, Order No. 1806, \$3.75.

61-18346

I. Mostchinskaya, N. K.
II. Title Destructive...

Mostchinskaya, N. K.
RESEARCH ON DIPHENYLMETHANE AND ITS
DERIVATIVES. I. DESTRUCTIVE HYDROGENA-
TION OF HIGH MOLECULAR PRODUCTS OF CON-
DENSATION OF BENZENE WITH FORMALDEHYDE.
[1961] pp. 13 re.
Order from OTS or SLA \$1.10 61-18346

Tram. of Zhurn. Prikladnoi Khimii (USSR) 1946,
v. 17 no. 11, p. 629-633.

DISCUSSIONS: *Diphenylmethane, Hydrogenation,
Decomposition, Pressure; *Benzene, *Toluene,
Synthesis, Catalysis; *Formaldehyde,
Condensation reaction, Methane, Phenyl radicals

Destructive hydrogenation of mixtures of diphenyl-
methane with p and o-diphenylbenzenes and higher
molecular compounds under 100 atm pressure at 500°
Chemistry--Organic. TT. v. 6, no. 11) (over)

Off. of Technical Services

61-18188

I. Parkirov, A. N.
II. Karavay, N. M.

Parkirov, A. N. and Karavay, N. M.
A NEW METHOD OF ISOLATION OF STYRENE
FROM CRUDE BENZOL. [1961] 6p. 14 refs.

Order form OTS or SLA 51.10 61-18188

Condensed trans. of Academiya Nauk SSSR, Otdelenie
Khimicheskikh Nauk (1961) 1974, p. 763-772.

DESCRIPTORS: Styrene, Separation, Chlorination,
Chlorides, Benzene.

176606

Office of Technical Services

A method of isolation of styrene is proposed, which is
said to have passed the laboratory stage of study. It
consists in treating the fraction 135-140° of crude
benzol with a 15 per cent solution of sodium hydroxide
and then with 3 per cent sulfuric acid. The product, free
of phenols and basic compounds, is then chlorinated,
and since dichlorostyrene boils at 233-234°, it can
easily be separated from the xylene by distillation,
after which dichlorostyrene is dechlorinated at 175°
with hydrogen or reduced at 500-550° with hydrogen
or other reducing gases. The yield of dichlorostyrene
(Chemistry, Organic, IT, v. 6, no. 6) (over)

61-18345

I. Sumarokov, V. P.
II. Bogoyavlenskaya, V. N.

Sumarokov, V. P. and Bogoyavlenskaya, V. N.
PREPARATION OF PYROCATECHOL FROM WOOD
CREOSOTE BY DECOMPOSITION OF PHENOL
ETHERS UNDER ATMOSPHERIC PRESSURE, III.

[1961] 4p. 3 refs.

Order from XTS or SIA \$1.10

61-18345

Condensed trans. of Zhurnal Prikladnoi Khimii (USSR)
1944, v. 17 (no. 1) p. 650-655.

DESCRIPTIONS: *Pyrocatechol, Preparation, *Creosote,
*Phenols, *Ethers, Decomposition, *Hydrochloric
acids, Chemical reactions, Temperature, Velocity,
*Antiline.

The dependence of the velocity of decomposition of poly-
hydric phenols upon the temperature, the amount of
aniline used and the rate of flow of hydrogen chloride
forming the aniline salt was studied. A rise of the tem-
(Chemistry - Organic, TT, v. 6, no. 10) (over)

187255

Office of Technical Services

Purification of Xylose-Containing So-
lutions with Calcium Oxides, by N. A.
Sychev and M. I. Shmatova, 4 pp.

RUSSIAN, per, Zhur Frik Khim, Vol XXII,
1944, pp 381-393.

655-658.

SLA R-210 72

Sci

Aug 58

72,153

Catalytic Oxidation of Phenanthrene. I. Effect of
Various Factors on the Catalytic Oxidation of
Phenanthrene, by M. N. Vorobytsev, D. A. Gurevich,
7 pp.

RUSSIAN, no per, Zhur Prik Khim, Vol XVIII, No 1/2,
1945, pp 3-9.

Sci Tr Ctr RT-3438

Scientific - Chemistry

34,918

May 15 078/dec

61-18223

Vorozhitev, N. N. and Gurevich, D. A.
CATALYTIC OXIDATION OF PHENANTHRENE.
II. MECHANISM OF ACTION OF VANADIUM PENT-
OXIDE [Zubovye Kataliticheskiye Oksleniya Penan-
tren, II]. [1961] 4p. 2 refs.
Order from CTS or CIA \$1.10

I. Vorozhitev, N. N.
II. Gurevich, D. A.
III. Title: Mechanism...

61-18223

Condensed trans. of Zhurnal Prikladnoi Khimii (USSR)
1945, v. 18 [pt. 1/2] p. 10-14.

DISCUSSION: Oxidation *Phenanthrenes, Catalysts,
*Vanadium compounds, Gases, Vapor phase, Crystals,
Naphthalenes

180139

Observations of the process of oxidation of hydrocarbons
over vanadium pentoxide were correlated with a study
of microphotographs of the surface of samples of the
catalyst. It was established that vanadium pentoxide
interacts with the charge and this results in essential
changes of its surface involving reduction to the tri-

Dept of Technical Services

(Chemistry-Physical, TT, v. 6, no. 8) (over)

61-18224

I. Lozovoi, A. V.
II. Senyavin, S. A.
III. Title: Anthracene...

Lozovoi, A. V. and Senyavin, S. A.
VELOCITIES OF DECOMPOSITION OF HYDROCAR-
BONS IN DESTRUCTIVE HYDROGENATION. II.
ANTHRACENE, 9,10-DIHYDROANTHRACENE, SYM-
METRICAL OCTAHYDROANTHRACENE, PERHYDRO-
ANTHRACENE, PHENANTHRENE AND 1,2-BENZAN-
THRACENE [1963] 7p. 30 refs.
Order from OITS or SLA \$1.10 61-18224

Trans. of Zhurnal Prikladnoi Khimii (USSR) 1945,
v. 18 [no. 1] p. 33-42.

DESCRIPTION: *Hydrocarbons, Decomposition,
*Hydrogenation, *Anthracenes, Catalysis,
*Phenanthrenes.

Hydrogenation of fused ring polynuclear aromatic and
hydroaromatic hydrocarbons was studied under an
initial hydrogen pressure of 80 atm. at 380, 420 and
475° in the presence of 5% molybdenum sulfide, and the
(Chemistry - Organic, TT, v. 6, no. 8) (over)

Office of Technical Services

Decomposition Rates of Hydrocarbons in Reciprocating
Engines, Part III, by A. W. LORING, G. A.
Serpieri,

RESEARCH, PART THREE, Progress Report, Vol. XVIII, No. 10,
1945, pp. 13-19

DTIC ST-2007

Sci - Chem

May 50

115,391

Mamedil, M. G.
CATALYTIC DESULFURIZATION OF GASOLINE, I.

[1961] 5p. 22 refs.
Order from OTS for SLA \$1.10

61-18242

61-18242

1. Title: Desulfurization
I. Mamedil, M. G.

Trans. of Zhurnal Prikladnoi Khimii (USSR) 1945, v. 18
[no. 1/2] p. 62-63.

INDEXING WORDS: Catalysis; Cracking; Sulfur compounds;
Fuels; Clays; Hydrocarbons; Decomposition; Separation.

18242

A study of the catalytic activity of 12 samples of clays from
four regions on the Arabian peninsula in USSR for
catalytic desulfurization of gasoline showed that some
natural clays could be used without activation for this
process, effecting removal of up to 80% of the sulfur
from samples with an initial sulfur content of 0.05%
at 400°C. However, at this temperature partial crack-
ing may occur and the optimal conditions are thought
(Materials - Fuels, TT, v. 6, no. 8) (over)

Office of Technical Services

On Effectiveness of Oxygenated Air Application in
the Contact Nitric Acid Manufacture, by V. I.
Atrshchanko, 9 pp.

RUSSIAN, per, Zhur Prikl Khim, Vol XVIII, Nos 1, 2,
1955, pp 61-65.

2/5 7/5

Sci Trans Center

RECEIVED

Scientific Chemistry

Sep 55 CTS/DEX

61-18348

I. Grinevich, V. M.

Grinevich, V. M.
A STUDY OF ZINC-CHROMIUM CATALYSTS FOR
SYNTHESIS OF METHANOL. [1961] 5p. 3 refs.
Order from OTS of SLA \$1.10 61-18348

Trans. of Zhurnal Prikladnoi Khimii (USSR) 1945, v. 18,
p. 90-96.

DESCRIPTORS: *Methanols, Synthesis, *Zinc compounds,
*Chromium compounds, *Oxides, Catalysts, Catalysis.

The efficiency of the catalyst for synthesis of methanol
of the composition $8ZnO \cdot Cr_2O_3 \cdot CrO_3$ is raised by
about 40% by substituting chromium oxide by chromium
trioxide, without affecting the composition of the pro-
duct. The catalysts $8ZnO \cdot 3CrO_3$ and $7ZnO \cdot CrO_3$ are
identical in activity. An increase of their content of
chromium to a composition of $7ZnO \cdot CrO_3$ reduces the
efficiency of the catalyst by 60% when the latter is pro-
(Chemistry--Organic: IT, v. 6, no. 10) (over)

1257

Office of Technical Services

62-14160

JOURNAL OF APPLIED CHEMISTRY, 1945, VOL. 18,
NO. 3; TABLE OF CONTENTS AND SELECTED
ABSTRACTS, (1945) 3p, 7 refs.

Order from OITS or SIA \$1.10 62-14160

Abstract trans. of Zhurnal Prikladnoi Khimii (USSR)
1945, v. 18, no. 3, p. 101-111, 121-125, 175-176,
182-190.

DESCRIPTION: *Chemistry, Abstracting, Periodicals,
Indexes, Acetones, Chlorides, Synthesis, Plants,
Oils, Coal, Coal tar, Chemical analysis

Contents:
Applied chemistry in the Academy of Sciences, by
G. E. Zvyagintsev and A. E. Porai-Koshits
Continuous method of preparation of chloroacetone, by
E. A. Shilly and G. V. Kupinskaya
Chemical composition of oil from Lippula echinata
(Chemistry, IT, v. 7, no. 12) (over)

Division of Technical Services

Ivanov, K. I., Blagova, T. A. and others.
PREPARATION OF LUBRICATING OILS BY ALKYLATION OF COAL TAR HYDROCARBONS. [1961] 14p.
18 refs.

Order from DTIC or SLA \$1.10 61-18239

Trans. of Zhurnal Prikladnoi Khimii (USSR) 1945,
v. 18, p. 1517-171.

DESCRIPTORS: *Coal tar, Hydrocarbons, Lubrication,
*Oils, Synthesis, Alkyl radicals.

Alkylation of aromatic hydrocarbons of coal tar from coking with oilfins of the coke oven gas in the presence of aluminum chloride and hydrogen chloride may form up to 38% lubricating oils calculated on the hydrocarbon charge. The quality of the oil is close to petroleum oil. It requires no treatment with chemicals or dewaxing. Considerable quantities (up to 40%) of gasoline consisting of saturated hydrocarbons are also obtained which (Materials-Lubricants, TT, v. 6, no. 6) (over)

61-18239

I. Ivanov, K. I.
II. Blagova, T. A.

176618

Office of Technical Services

Cobalt Silicates, by N. P. Dier, V. V. Gribovsky, 4 pp.
UNCLASSIFIED

Full translation.

RUSSIAN, per, Zhur. Prikl. Khim, Vol XVIII, 1945,
pp 181-182.

ASO Tr 1101A

Scientific - Chemistry

May 53 OES

2080

INVESTIGATION IN THE FIELD OF VOLATILE
SOLVENTS RECOVERY ON SOLID SORBENTS. 9.
INVESTIGATION OF THE DESORPTION OF
VOLATILE SOLVENTS FROM CARBON LAYERS, BY
E. V. ALEKSEYEVSKIY, Z. S. VANYUSHINA,

RUSSIAN, PER, ZHUR PRIK KHIM, VOL X XVIII, 1945
PP 193-206.

NLL 11.3480

SCI - CHEM

JUN 62

199,105

Zhur Prikl Khim XVIII, 221-9, (1945)

Absorption Properties of Kaolin

Ye. A. Fialkov (Inst of Chem of USSR Acad Sci)

(Wilson Mar 1946)

SCA R-7634

Dr. P. K. ... XVII (4-5) 251-258 (1945)

... ..

Investigation of Conditions of Titanium
Condensation

(NACA Tech memo (12.55) 13pp July 49

Quantitative Separation of Columbium and Titanium With
Sodium Hypophosphite, by I. P. Alimarin, T. A. Burova.

RUSSIAN, Zhur Prikl Khim, Vol. XVIII, No 6,
1945, pp 285-293.

Butcher Tr No 2584

4105

Scientific Chemistry

44.65

Zhur Park Khim, XVIII, 294-300 (1945)

Electrolysis of Nickel Nit

M. Loshkarev, O. Bein, and G. Lapp (Electrochem Lab of
the Kirov Ural Industrial Inst)

(Wilson: Data 2442)

61-18344

Khain, S. S., Proat, A. V. and others.
DEHYDRATION OF ISOPROPYL ALCOHOL OVER
SOLID CATALYSTS. [1961] 8p. 13 refs.
Order from OTS or SLA \$1.10

I. Khain, S. S.
II. Proat, A. V.

61-18344

Trans. of Zhurnal Prikladnoi Khimii (USSR) 1945,
v. 18, p. 301-308

DESCRIPTORS: *Propanols, Dehydration, *Propyl
ethers, Synthesis, *Aluminum compounds, *Alums,
Catalysis, Chemical reaction, Temperature, Pres-
sure, Velocity

7254

A catalyst was developed with which 25.9-29.4 mol-%
yields of isopropyl ether can be obtained from iso-
propyl alcohol of 42-95% concentration, when calcu-
lated on the alcohol charged or 44.5-73.8% on the
alcohol converted, for a rate of flow of 1.16-5.70
l/kg catalyst per hour and a reaction temperature of
(Chemistry-Physical, TT, v. 4, no. 10) (over)

Office of Technical Services

62-14162

JOURNAL OF APPLIED CHEMISTRY, 1945, VOL. 18,
NO. 6: [TABLE OF CONTENTS AND SELECTED AB-
STRACTS]. [1961] 3p.

Order from DTIC or SLA \$1.10

62-14162

Abstract trans. of Zhurnal Prikladnoi Khimii (USSR)
1945, v. 18, no. 6, p. 313-321.

*A complete trans. of p. 313-321 is available from
SLA as RT-3105.

DESCRIPTORS: Chemistry, Literature, Abstracting,
Ammonia, Catalysts, Bactericides, Determination.

Contents:

*Selection of new materials for ammonium catalysis,
by V. M. Ginzlich

Determination of small amounts of nitrophenol of the
type of nitrophenol by G. L. Garkuseva and T. N. Pater.
(Chemistry, JT, v. 8, no. 4)

1. Title: Zetirool

Official Technical Services

Selection of New Kinds of Raw Material for
Ammonia Catalysts, by V. M. Grinevich, 14 pp.

RUSSIAN, per, Zhurnal Prikladnoi Khimii, Vol
XVIII, No 6, 1945, pp 313-321.

Sci Trans. Center RT-3405

Scientific - Chemistry

32,711

Apr 56

61-18341

Firsanova, E. N.
INVESTIGATION OF THE CHEMICAL COMPOSITION
OF SYNTHESIS. II. ANALYSIS OF WATER FORMED IN
SYNTHESIS OF HYDROCARBONS. [1961] 6p. 5 refs.
Order from OTS or SLA \$1.10 61-18341

I. Firsanova, E. N.
II. Title: Analysis ...

Trans. of Zhurnal Prikladnoi Khimii (USSR) 1945, v. 18,
p. 367-372

DESCRIP(TORS *Hydrocarbons, Synthesis, Nickel,
Cobalt, Aluminum, Catalysts, Chemical reactions,
*Alcohols, *Acids, *Water, Chemical analysis,

1253

The products of interaction of carbon monoxide with
hydrogen under atmospheric pressure in the presence
of a nickel-cobalt-aluminum catalyst at 180-190°C con-
tain not only hydrocarbons and small amounts of acids,
but also aliphatic alcohols and aldehydes soluble in
water. From the reaction water 0.13-0.37% neutral
(Chemistry--Organic, TT. v. 6, no. 10) (over)

Office of Technical Services

The Theory of Equilibrium Concentrations
and Continuous Flow of a Solution; Counter-
Flow Processes; by N. I. Kirillov 21 pp.

RUSSIAN, Dokl. Akad. Nauk SSSR, Vol. XVIII,
No. 7/8, 1945, pp. 381-392.

SLA 60-18411
(SLA 63-14742)

Ser. IV, No. 11.
Vol. 62

199, 2.51

K-11-15-11

Stability and Volatility of Tin Oxides, by
V. K. Vasilevskiy, 20 pp.

RUSSIAN, Izv. Akad. Nauk SSSR, Vol. XVII, No 9, 10,
1955, pp 397-413.

Sci Res Lib No 54/3560

Scientific - Chemistry

Apr 55 CTS/HEX

23,308

DECOMPOSITION
Decomposition of Dextran "A" on Heating to 550° C,
By G. V. Bal'yan, 8 pp.

RUSSIAN, Izv. i Zhur Prik Khim, USSR, Vol XVIII,
1985, pp 420-424

Technical
Annex Services
New Jersey NJ-54
ATS 13-18535

15,026

Scientific Chemistry

\$9.20 (\$1.25)

Zhur Prikl Khim, XVIII, 439-49 (1945)

Kinetics and Mechanism of Catalytic Conversion of
~~XXXX~~ Carbon Monoxide

V. A. Roiter, S. S. Gaultman, N. P. Piserzhenskaya and
T. M. Valiyev (Pisunzhevskiy Inst of Phys Chem, USSR
Acad Sci.)

~~(Wilson Desk 2418)~~

01-20117

I. Reiter, V. A.
H. Roman, M. Ya.

000

Office of Technical Services

Author: V. A. Reiter, M. Ya. Roman, and others.
 Russian title: УДАЛЕНИЕ АЦЕТИЛЕНА ИЗ ВОЗДУХА КATALYTICKOY REAKTSIYONNOY SREDOY. [1961] 10 p. 5 refs.
 (Order Form OTR of SLA 31.10) 01-20117

From: Zhurnal Prikladnoy Khimii (USSR) 1943, Vol. 16, No. 5, 830-836.

DESCRIPCION: Air Purification, Acetylene, Oxidation, Catalytic Reaction, Reaction, Ores, Catalysts, Catalysts.

Summary: The article describes the removal of acetylene from the air of acetylene plants by oxidation of acetylene with oxygen. The authors describe the apparatus used for this process. They also discuss the results of their experiments, which show that the process is highly efficient and that the catalysts used are very durable. The authors also mention that the process can be used for the removal of acetylene from the air of other plants.

61-20133

Roter, Z. A., Gaukhman, S. S., and Tudorovskaya, M. A.

CATALYTIC OXIDATION OF HYDROGEN SULFIDE IN THE PRESENCE OF HYDROGEN. [1961] 10p. 27 Feb.

Cover from OIT or SLA 31. 10

61-20133

Trava. i. Zhurnal. Prikladnoi Khimii (USSR) 1945, v. 18, p. 457-461.

DISSEMINATORS: *Hydrogen compounds; Sulfides, Catalytic; *Nickel catalysts; *Lead catalysts; Catalysts; Catalytic; *Hydrogen; Chemical reactions.

Study was carried out of the efficiency of the catalytic oxidation of oxides of nickel and lead and supported on them in the oxidation of hydrogen sulfide in the mixture $H_2S + O_2 + H_2 + N_2$, as dependent upon the following factors: temperature, space velocity. (Chemistry--Physical, TT, v. 6, no. 11) (over)

- I. Roter, Z. A.
- II. Gaukhman, S. S.
- III. Tudorovskaya, M. A.

0011

Office of Technical Services

62-14164

JOURNAL OF APPLIED CHEMISTRY, 1945, VOL. 19,
NO. 9/10 (TABLE OF CONTENTS AND SELECTED
ABSTRACTS) [1951] p. 14 refs.

Order from CTS or SIA \$1.10

60-11164

- I. Title: Suspension ultrafilters
- I. Title: Alkyl...
- II. Balkow, A. A.

Abstract trans. of Zhurnal Prikladnoi Khimii (USSR)
1945, v. 8, no. 9/10, p. 469-473, 505-507, 518-520,
534-547, 554-570, 572-575.

DESCRIPTION: *Chemistry, Abstracting, Metallurgy,
Chemical engineering, *Activated carbon, Oxidation,
Inflammable materials, Temperature, *Carborundum,
*Pipettes, Automatic, Adsorption, Gases, Absorption,
*Coal tar, *Plat, Density, *Acetones, Oxidation,
Potassium compounds, Manganese, *Organic com-
pounds, *Alkyl radicals, Sulfur compounds, Chlorides,
Amides, *Bentonite, Clays, Chemical industry.

(Chemistry, I.T., v. 8, no. 2)

(over)

Office of Technical Services

61-20140

I. Eldus, B. R.

Eldus, B. R.
DEPENDENCE OF THE HYDROGEN-CARBON RATIO
IN LIQUID PHEOL UPON ITS AVERAGE SPECIFIC
GRAVITY. [1961] No. 12 refs.
Order from OITS cost \$1.50 61-20140

Trans. of Zhurnal Khimicheskoi Khimii (USSR) 1945,
v. 13, p. 548-555.

DISCIPLINES: Liquids, *Fuels, *Gases, Organic com-
pounds, *Hydrogen, *Carbon, Density, Solubility.

On the example of a large number of organic com-
pounds the hydrogen-carbon ratio was correlated with
specific gravity. An equation $(H/C) = 3.86 + 2.3D$
was derived suitable for comparative characterization
of different with those from coal and peat. Similar
equations were derived for the series of paraffins and
aromatics. (Author)
(Chemistry - Organic, TT, v. 6, no. 11)

Office of Special Services

Bogdanin, A. I., Bogdanova, O. K. and others.
CATALYTIC DEHYDROGENATION OF THE TECHNICAL
CUMENE FRACTION OF CRACKED
GAS. 1961] 42] 104.
Order from DTIC or SLA \$1.10 61-20144

Trudy Khim. Prichinnoi Khimii (USSR) 1945, v. 1, p. 60-61.

DESCRIPTORS: *butenes, *butenes, Dehydrogenation, Catalysts, Catalysis, *butadienes, Synthesis, *Hydrocarbons, Gases.

On the example of catalytic dehydrogenation of a plant-produced butane-cumene fraction of cracking gases it has been shown that the method of preparation of butadiene (by dehydrogenation of 1-butene and 1-butene) previously described by the authors is totally applicable to gases from oil cracking. (Author)
(Chemistry--organic, TI, v. 6, no. 1)

61-20144

I. Bogdanin, A. A.
II. Bogdanova, O. K.

Office of Technical Services

The Vinylation of Coal From the Moscow Area, by
N. N. Ehtsakovskiy.

RUSSIAN, part, Zhur Prik Khim, Vol XXIX, 1945,
pp 463-467.

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Pitts., Pa. Tr 267

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89,900

Amelia, A. G.
ABSORPTION OF SULPHUR TRIOXIDE BY AQUEOUS
SOLUTIONS OF SULPHURIC ACID, II. [1961] [10p].
9 refs. [DSIR LLU] M.2055.
Order form LC or SLA m\$1.80, 1961.80 61-13415
Trans. of Zhurnal Prikladnoi Khimii (USSR) 1945
v. 18, p. 509-518.

61-13415

- 1. Sulfur oxides--Absorption
- 2. Sulfuric acid--Absorptive properties
- 1. Amelia, A. G.
- II. DSIR LLU M.2055

C/17/ADD/K-33

142900

Files of Technical Services

(Engineering-Chemical, TT, v. 8, no. 17)

Zhur Prikl Khim, XVIII, 518-20, (1945)

Suspension Ultrafilters

S. G. Mokrushin (Ural Industrial Inst)

(Wilcom Dec 1943)

Zhurn Prikl Khim, XVIII, 121-8, (1945)

Physicochemical Analysis of Sulfuric Acid Treatment
of Phosphates V. The Solubility of Calcium Sulfate in
Aqueous Solutions of Phosphoric Acid at 40° , 60° and
 90° C.

A. A. Imperova and M. N. Shulgina (Lab of Physico chem
analysis of the State Inst of Fertilizers and Insecto-
fungicides, NIIF)

(Wilson Dam 2446)

62-14165

KUWATA, J. APPLIED CHEMISTRY, 1945, VOL. 18, NO. 11, 112. TABLE OF CONTENTS AND SELECTED ABSTRACTS. [1945] 17p. 4 refs.
Distributed by: JCS of SLD 5210 62-14165

Abstracts of Journal of Chemical Physics (JCP) (USER)
1945, vol. 13, no. 12, p. 581-600, 641-646, 695, 710-724.

DESCRIPTIONS: *Chemistry, Abstracting, *Abstracts, *Acetylation, *Aldehydes, *Alkylates, *Ammonia, *Amines, *Aldehydes, *Ketones, *Methyl radicals, *Vapors, Recovery, *Steam, *Activated carbon, Solvent extraction, *Gases, *Sodium compounds, *Fluorides, *Silicate, Colloids, *Alum compounds, *Sulfates, Solutions, Purification, Copper, Cadmium, *Hydrogen compounds, *Sulfides, Ethanes, Sulfonates, Organic compounds, *Gold, Aliphatic compounds, *Tuberculosis, *Thyroid, *Synthesis.
(Chemistry) IT, v. 8, no. 2 (over)

I. Title: Preparation
II. Title: Description
III. Paavola, A. B.

Office of Technical Services

Investigations on the Field of Recovery of
Volatile Solvents on Solid Sorbents. XI.
Description of Solvents From Solid Sorbents With
Steam. Theory of Description, by E. V.
Ikshtrevaliy, S. S. Varyushina.

RUSSIAN, per, Zhur-Frik Khim, Vol XVIII,
1945, pp 658-665.

ILL N. 3606

Sol - Chem

207, 315

Aug 62

61-20145

Nikolaev, A. V., Frolova, E. V., and Shternina, E. B.
STORING OIL AND OTHER LIQUIDS IN CHEMICALLY TREATED GROUND. [1961] 4p, 3 refs.
Order from ODS or SIA \$1.10 61-20145

I. Nikolaev, A. V.
II. Frolova, E. V.
III. Shternina, E. B.

Trans. of Zhurnal Prikladnoi Khimii, (USSR) 1945, v. 18, p. 688-689.

DESCRIPTORS: *Liquids, *Oils, *Storage, Sand, Iron compounds, Hydroxides, Permeability, Tests.

The impermeability to oil products, alcohol and water of a film of ferric hydroxide on a layer of sand was tested and it was found that neither of these liquids passed through this film during a period of from 6 to 11 months. The passing of oil products through a dough-like moist mass of milk of lime was also investigated. (Author)

(Engineering--Chemical, TT, v. 8, no. 1)

Office of Technical Services

61-20160

Rozlovskaya, S. I. and Temkin, M. I.
VAPOR PRESSURE OF MIXTURES OF VINYLIDENE
CHLORIDE AND VINYL CHLORIDE. [1961] 4p. 1 ref.
Order from DTIC or SIA \$1.10 61-20160

I. Rozlovskaya, S. I.
II. Temkin, M. I.

Trans. of Zhurnal Prikladnoi Khimii (USSR) 1946,
v. 19, p. 30-34.

DESCRIPTIONS: Vinyl chlorides, Chlorides, Mix-
tures, Vapor pressure, Measurement.

Vapor pressures of vinyl chloride at from 20 to 60°C.
and of vinylidene chloride within 20 and 90°C were
determined and satisfactory agreement was established
of the data for vinyl chloride with those reported in the
literature. Vapor pressures of three mixtures of vinyl
chloride with vinylidene chloride were determined
within the temperature interval of 20 to 80°C and it was
found that the vapor pressure of these mixtures can be
calculated with sufficient approximation on the basis of
the law of Raoult. (Author)

(Chemistry--Organic, TT,
v. 7, no. 1)

Office of Technical Services

Graphite-Fireclay Ladle Refractories and the
Mechanism of Their Water, by P. P. Budnikov,
L. A. Tseinlin.

RUSSIAN, per, Zhur Prik Khim, Vol XIX, 1946,
pp 40-.

ISIR LLJ M.1229
(loan)

Sci - Engr

128,876

Oct 60

The Reciprocal System $\text{KCl} - \text{NH}_4\text{NO}_3 - \text{H}_2\text{O}$ in
the Presence of Ammonia. I. Quaternary Ammonical
Systems: K^+/Cl^- , NO_3^- and $\text{NH}_4^+/\text{Cl}^-$, NO_3^- ,
by N. P. Aleksandrov.
RUSSIAN, per, Zhurnal Prikladnoi Khimii, Vol 19,
No 1, 1946, pp 63-70.
SIA TT-66-10247

Sci-Chem
Aug 68

309,191

Rabinovich, I. B. and Osin, B. V.
ELECTROCONDUCTIVITY OF LIME DURING HY-
DRATION AND SETTING. 22 July 63, 9p. (figs. tables
omitted) 8 refs.

Order from DTIC, SLA or ETC: SL 10 TT-63-18766

Trans. of [Zhurnal Prikladnoi Khimii] (USSR) 1946,
v. 19 (no. 1) p. 90-96.

DESCRIPTOR: *Cements, *Calcium compounds,
*Oxides, *Hydroxides, *Hydrates, *Aging (Materials),
*Hardening, *Electrochemistry, *Electrical conduct-
ance, *Electroanalysis.

A method was developed for measuring the electro-
conductivity at constant temperature during the highly
exothermic process of hydration (and setting) of lime.
A number of corresponding curves showing the changes
in electroconductivity during the process was obtained.
(Materials, T, v. 11, no. 1) (over)

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I. Rabinovich, I. B.
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The Preparation and Properties of Ascorbic acid.
On the lactonisation of Diacetone-2-keto-gulonic
acid, by Y. M. Slobodin, A. K. Basova.

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pp 172-175.

USBN Ref. T. 1774

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Studies of the Equilibria Liquid-Vapour in the
Systems Water-Ethylene Glycol, Diethylene Glycol-
Triethylene Glycol, by T. K. Skripash, M. I.
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Method of the Preparation of 2, 3-Di-
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pp 200-206.

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Ilanin, A. A. and Narukyan, G. M.
CATALYTIC PREPARATION OF *o*-METHYL-
STYRENE. [1961] 10p. 12 refs.
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I. Bilandin, A. A.
II. Narukyan, G. M.

Journal of Applied Practical Chemistry (USSR) 1946,
v. 19, p. 207-210.

DESCRIPTION: *Styrenes, Methyl radicals,
Synthesis, *Chemicals, Dehydrogenation, Copper,
Chemical, Catalysts, Catalysts.

A study of catalytic dehydrogenation of isopropylbenzene to *o*-methylstyrene showed that this method may be recommended for testing on a commercial scale. *o*-Methylstyrene is distinguished by a number of advantages over styrene. Its preparation is simpler and the quality of synthetic rubber obtainable by its copolymerization with 1,3-butadiene is apparently higher than that of copolymer of the latter with styrene. (Chemistry-Organic, TT, v. 5, no. 11) (over)

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The Kinetics of the Chamber Process for Sulfuric
Acid, by E. N. Kuzminykh.
RUSSIAN, in, Zhurnal Prikladnoi Khimii, Vol. 29,
1960, pp 227-230.
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Krasyukov, A. P., Boikova, E. P., and Kalita, L. A.
PREPARATION OF A TANNING MATERIAL FROM
OIL REFINING WASTE PRODUCTS. [1961] 6p. 2 refs.
Order from OTS or SLA \$1.10 61-20119

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- 1. Title: Tanning
- 2. Title: Sulfoxytan
- I. Krasyukov, A. P.
- II. Boikova, E. P.
- III. Kalita, L. A.

Trans. of Zhurnal Prikladnoi Khimii (USSR) 1946,
v. 19, p. 322-324.

DESCRIPTORS: *Oils, Refineries, *Chemical waste,
*Tannic acids, *Leather

201422

A synthetic tanning material (sulfoxytan) was prepared on a laboratory scale from acid sludge from refining paraffinic oil. The simplicity of its preparation and of the equipment required make this material inexpensive; its quality is not lower than that of sulfoanthracene, which is used in the USSR for tanning. Subsequent strengthening of the adhesion of sulfo-paraffin to the hide fibers with the aid of green vitriol (Materials--Leather, TT, v. 7, no. 8) (over)

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Kremnev, L. Ya., Mischchenko, K. P., and
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Trans. of [Zhurnal Prikladnoi Khimii] (USSR) 1946,
v. 19, no. 4, p. 363-370.

DESCRIPTORS: Magnesium, Liquid metals, *Salts,
Melting, *Colloids.

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- II. Mischchenko, K. P.
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- IV. K-H-6065-a
- V. Kresge-Hooker Science
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SLA TT-64-20201

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Explosive mixtures of water and methyl alcohol
with magnesium and aluminum, by A. A. Shiřlovskij,
12 pp
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