

61-16640

Kazanskii, B. A. and Rozengart, M. I.
CATALYTIC POLYMERIZATION OF BUTENES OVER
ALUMINUM SILICATE. II. [1961] 10p. 12 refs.
Order from OTS or SLA \$1. 10 61-16640

I. Kazanskii, B. A.
II. Rozengart, M. I.

Trans. of Zhurnal Obshchei Khimii (USSR) 1942, v. 12,
p. 246-254.

DESCRIPTORS: *Butenes, Polymerization, Aluminum
compounds, *Silicates, Catalysts.

1961

Office of Technical Services

(Chemistry--Organic, TT, v. 6, no. 7)

Alekseevskii, E. V. and Kuznetsova-Kharina, O. M.
INVESTIGATION OF SORPTION OF ACETYLENE.
[1961] 10p. 19 refs.
Order from OTS or SLA \$1. 10

61-16916

Trans. of Zhurnal Obshchei Khimii (USSR) 1942, v. 12,
p. 296-305.

DESCRIPTORS: *Acetylene, Cellulose, Esters, Cata-
lysts, Stearates, Adsorbents.

The dynamic activity of various sorbents and certain
catalysts with respect to acetylene have been estimated,
and on the basis of the data obtained the unsuitability of
the following substances established for gas mask pro-
tection against acetylene: various commercial carbons,
gels, impregnated charcoal and hepallite. The retain-
ing capacity of various impregnated carbons with
respect to acetylene is insignificant. The sorption
isotherms have been investigated for acetylene on
ethyl n-heptadecyl ketone, cellulose and some esters
(Chemistry--Organic, TT, v. 6, no. 7) (over)

61-16916

I. Alekseevskii, E. V.
II. Kuznetsova-Kharina, O. M.

15174

Office of Technical Services

Alekseevskii, E. V. and Likharev, N. A.
EFFECT OF SOME CHEMICAL AND PHYSICAL
FACTORS ON THE ACTIVITY OF CARBON. VIII.
CHLORINE ACTIVATION. [1961] 14p. 15 refs.
Order from OTS or SLA \$1.60 61-16893

Trans. of Zhurnal Obshchei Khimii (USSR) 1942, v. 12,
p. 306-320.

DESCRIPTORS: *Activated carbon, Synthesis,
*Chlorine, Adsorption, Vapors.

Preparation of active carbons from various raw materials by carbonization at 750° and 950° was investigated. Sorption of vaporized and dissolved substances by chlorine-activated carbons was studied. Marked sorption activity of chlorine-activated carbons was established with respect to vapors, as well as dissolved substances, which exceeds in some cases the activity of steam-activated commercial carbons. The considerable amount of chlorine accumulated in chlorine-activated
(Chemistry--Physical, TT, v. 6, no. 7) (over)

61-16893

I. Alekseevskii, E. V.
II. Likharev, N. A.
III. Title: Chlorine...

15170

Office of Technical Services

The Alkaloid Delphamine From Delphinium Sp. 1. Alkaloids of the Species of Delphinium, by M. S. Rabinovich, and R.A. Konevalova.

Full translation.

RUSSIAN, no pag, Zhur Obshch Khim, USSR, Vol XII, 1942, pp 321-328.

ABC Tr 1457

Scientific - Chemistry, alkaloid Delphamine

Dec 52 CTS/DEX

I. The Alkaloid Condelphine From Delphinium Confusum
M. Pop; II. Alkaloids of Species of Delphinium
fam. Ranunculaceae, by M. S. Rabinovich, W. A.
Kononov.

R.

Full translation.

RUSSIAN, no per, Zhur Obshch Khim, Vol XII, USSR,
1942, pp 329-336.

AEC Tr 1631

Scientific - Chemistry

Aug 53 CRS

4823

Organometallic Compounds in the Friedel-Crafts
Reaction, by A. P. Skoldinov, K. A. Kocheskov, 5 pp.

RUSSIAN, per, Zhur Obshch Khim, Vol XII, No 7-8,
1942, pp 398-402.

Assoc Tech Serv RJ628

Sci
Apr 59

84,465

Method for the Synthesis of Organo-Metallic
Lead Compounds With a Substituted Group
in the Benzene Nucleus, by M. M. Nad',
K. A. Kocheshkov.
RUSSIAN, per, Zhur Obschei Khim, Vol XII,
1942, pp 409-414.
K-H-6108

Jan 67

317,903

61-16664

Levina, R. Ya.
MECHANISM OF IRREVERSIBLE CONTACT CONVERSION OF CYCLOHEXANE AND CYCLOHEXENE HYDROCARBONS WITH UNSATURATED SIDE CHAINS.
II. IRREVERSIBLE CATALYSIS OF A CYCLOHEXANE WITH AN OLEFINIC SIDE CHAIN, THE DOUBLE BOND OF WHICH IS SEPARATED FROM THE RING BY A QUATERNARY CARBON ATOM. [1961] 10p.
47 refs

- I. Title: Contact conversion
- I. Levina, R. Ya.
- II. Title: Irreversible...

Order from OTS or SLA 11.10 61-16664

Trans. of Zhurnal Obshchei Khimii (USSR) 1942, v. 12, p. 422-432

INTL

DESCRIPTORS: Hydrocarbons, Cyclic; Cyclic hydrocarbons; Chemical bonds; Molecular isomerism.

The correctness of the previously proposed mechanism of irreversible contact conversion of cyclohexane and cyclohexene with unsaturated side chains was verified (Chemistry--Organic, T2, v. 6, no. 7) (over)

Office of Technical Services

Nad, M. M. and Kocheskov, K. A.
METHOD FOR THE SYNTHESIS OF ORGANO-ME-
TALLIC LEAD COMPOUNDS WITH A SUBSTITUTED
GROUP IN THE BENZENE NUCLEUS. [1963] 9p
Order from K-H \$9.00 K-H 6108

Trans. of [Zhurnal Obshchei Khimii] (USSR) 1942,
v. 12 (no. 7/8) p. 409-414.
Abstract trans. is available from OTS or SLA \$1.10
to 61-20327 [1961] 6p.

DESCRIPTORS: *Metalorganic compounds, *Lead
compounds, *Benzenes, Substitution reactions, Syn-
thesis (Chemistry), Nuclei.

(Chemistry--Organic, TT, v. 10, no. 12)

63-22815

- I. Nad, M. M.
- II. Kocheskov, K. A.
- III. K-H-6108
- IV. Kresge-Hooker Science
Library Associates,
Detroit, Mich.

Office of Technical Services

Hydration of Pyrophosphoric Acid, by V. K.
Gul'nov, 7 pp.

RUSSIAN, per, Zhur Obshch Khim, Vol XII, 1982.
pp 468-473.

SLA R-2646

Sci

Aug 58

72,969

Structure of Phenolaldehyde Resins. XI. The Nature
of Resinous Condensation Products of Phenol With
Formaldehyde, by A. A. Vansheidt, A. T. Itenberg,
V. S. Shifrina, 7 pp. UNCLASSIFIED.

RUSSIAN, per, Zhur Obshch Khim, Vol XII, 1942,
pp 500-509.

CIA/FDD/X-1472

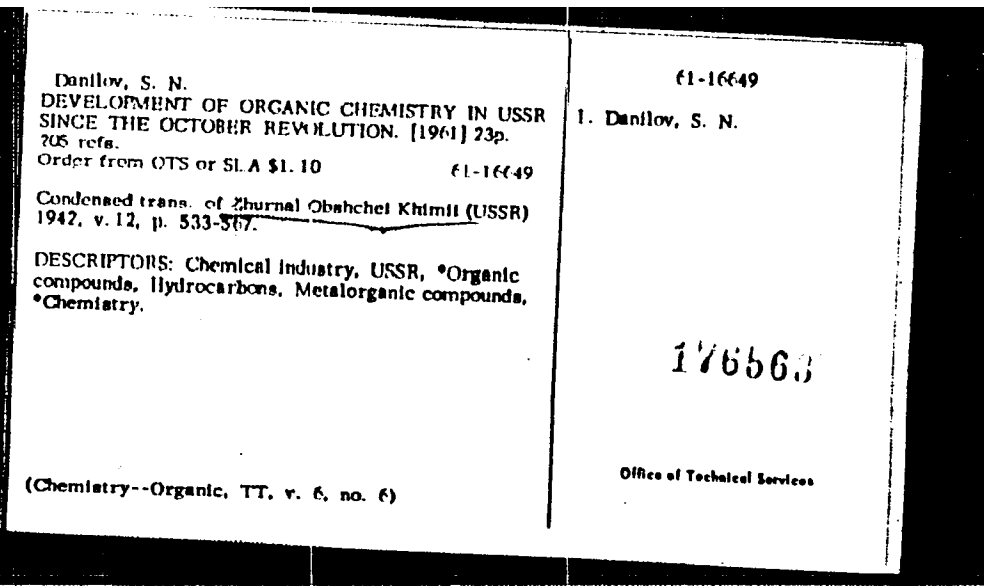
Scientific - Chemistry

13,651

Comparative Hydrogenation of Octadecenoic
Acids, by Figulovskii, P. A. Artamonov,
llp.
RUSSIAN, part, Zhurnal Obshchei Khimii,
Vol 12, No 9/10, 1942, pp 510-517.
OCS 121-65-601.00

Sci
Aug 67

333, 1147



<p>Nikolaeva, A. F. and Frost, A. V. MECHANISM OF CONVERSION OF CYCLOHEXANE TO HEXANES DURING HYDROGENATION OVER MOLYBDENUM SULFIDE. [1961] 3p. 4 refs. Order from OTS or SLA \$1.10</p>	<p>61-16650</p>
<p>Trans. of Zhurnal Obshchei Khimii (USSR) 1942, v. 12, p. 646-648.</p>	<p>I. Nikolaeva, A. F. II. Frost, A. V.</p>
<p>DESCRIPTORS: Cyclohexanes, Hydrogenation, Molybdenum compounds, Sulfides, Hexanes, Chemical reactions.</p>	<p>1017</p>
<p>Hydrogenation in the presence of molybdenum sulfide converts cyclohexane into hexanes through the inter- mediate stage of formation of methylcyclopentane. (Author)</p>	<p>Office of Technical Services</p>
<p>(Chemistry--Organic. TT, v. 6, no. 7)</p>	

V
A Contribution to the Problem of Vinyl Ethers, I.
Synthesis and Properties of Vinyl Ethers, by A. E.
Favorskiy, M. P. Shostakovskiy, 42 pp.

RUSSIAN, per, Zhur Obshchei Khim, Vol XIII, No 1/2,
1943, pp 1-20.

Sci Tr Center
RT - 3760

Sci - Chemistry

Aug 1956

57,174

SLA 61-16-115

Plato, A. F. and Tarasova, G. A.
 MECHANISM OF CONTACT CONVERSIONS OF HY-
 DROCARBONS ON A VANADIUM CATALYST.
 I. CONTACT CONVERSIONS OF NORMAL HEPTANE
 [Mekhanizm Kontaknykh Prevrashchenii
 Uglevodorodov na Vanadievom Katalizatore]. [1961]
 15p. 26 refs.

Order from OTS or SLA \$1.60

61-16982

Trans. of Zhurnal Obshchei Khimii (USSR) 1943, v. 13,
 [no. 1/2] p. 21-35.

DESCRIPTORS: *Hydrocarbons, *Heptanes, Dehydro-
 genation, Vanadium catalysts, Monocyclic compounds.

Dehydrogenation of normal heptane on the vanadium
 trioxide-alumina catalyst was investigated within the
 temperature interval of from 440 to 510°. The veloc-
 ity of the total reaction of dehydrogenation was indi-
 cated by the amount of gas (hydrogen) liberated per 3
 minutes, and it was established that the change of the
 (Chemistry--Organic, TT, v. 6, no. 7)
 (over)

61-16982

- I. Title: Contact conversion
- I. Plato, A. F.
- II. Tarasova, G. A.
- III. Title: Contact...

151764

Office of Technical Services

Plite, A. F. and Tarasova, G. A.
 MECHANISM OF CONTACT CONVERSIONS OF HY-
 DROCARBONS ON A VANADIUM CATALYST.
 II. KINETICS OF CYCLIZATION OF NORMAL
 HEPTANE [Mekhanizm Kontaknykh Prevrashchenii
 Uglevodorodov na Vanadievom Katalizatore]. [1961]
 7p. 17 refs.

Order from ODS or SLA \$1. 10

61-16981

Trans. of Zhurnal Obshchei Khimii (USSR) 1943, v. 13
 [no. 1/2] p. 35-40.

DESCRIPTORS: *Hydrocarbons, *Heptanes, Cyclo-
 hexane, Dehydrogenation, Vanadium catalysts, Mono-
 cyclic compounds.

It was established that the total reaction of dehydro-
 genation of normal heptane on vanadium catalyst fol-
 lows the Arrhenius equation and that the apparent en-
 ergy of activation of this reaction is 41, 100 cal per
 (Chemistry--Organic, TT, v. 6, no. 7) (over)

61-16981

- I. Plate, A. F.
 II. Tarasova, G. A.
 III. Title: Kinetics...

101760

Office of Technical Services

The Action of Aluminum Chloride on N-nitramino-
pyridine in the Presence of Benzene, by D. N. Kur-
sanov, E. A. Ignat'eva, 14pp.

Zhur Obshch Khim

RUSSIAN, mo per, Vol XIII, No 1-2, 1943, pp 62-67.

Sci Tr Ctr RT-3813

Sci - Chemistry
Aug 56 Cts/dex

37,541

Conjugated Systems. XII. Bromination of
Chloroprene, by A. A. Petrov, 11 pp.

RUSSIAN, per, *Zhur Obshchei Khim.*, Vol XIII, No 1/2,
1949, pp 108-112.

Sci Tr Center
RT - 3860

Sci - Chemistry

37,160

Aug 1956

The Effect of the Diameter of Laboratory Columns
with Ferrule Packing on Their Efficiency and
Throughput, by B. A. Kazanskiy, et al. 12 pp
UNCLASSIFIED

RUSSIAN, per, Zhur Obshch Khim, Vol XIII, No 3,
1943, pp 125-130,

Sci Tr Center
RT-1010

Scientific - Chemistry

15,361

JOURNAL OF GENERAL CHEMISTRY, 1943,
VOL. 13, NO. 3: [TABLE OF CONTENTS] AND
SELECTED ABSTRACTS. [1961] 13p. 10 refs.
Order from OTS or SLA \$1.60

61-20331

Abstract trans. of Zhurnal Obshchei Khimii (USSR)
1943, v. 13, no. 3, p. 131-158, 164-168, 175-188,
202-216, 230-241.

*Complete translations of p. 136-144, 184-188,
202-212 are available separately.

DESCRIPTORS: *Chemistry, Abstracting, Periodicals,
Alcohols, Silicic acids, Acids, Esters, Butadienes,
Synthesis, Urea derivatives, Ketones, Alkylation,
Chloroprenes, Iodine, Bromine, Chemical reactions,
Stilbenes, Hydrolysis, Vanadium, Catalysts, Ethyl
radicals, Cyclopentanes, Pentanes.

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

(over)

61-20331

- I. Title: Arylation...
- II. Title: Interaction of
Chloroprene...
- III. Title: Alkylation...
- IV. Title: Hydrolysis...
- V. Title: Contact...
- VI. Title: Interaction of 1, 2...
- VII. Title: Order...

Office of Technical Services

Intramolecular Rearrangements in the Aromatic Series.
III. Arylation and Alkylation of Aryl-Derivatives
of Urea, by G. I. Gershon, 17 pp.

RUSSIAN, per, Zhur Obshchei Khim, Vol XIII, No 3,
1943, pp 136-144.

Sci Tr Center
RT - 3841

Sci - Chemistry

Aug 1956

37,175

Alkylation with Olefines in the Presence of
Aluminum Chloride. Communication I , by S. I. Lur'e
A. Ya. Golovacheva, 12 pp.

RUSSIAN, no per, Zhur Obshch Khim, Vol XIII, No 3,
1943, 189-194.

Sci Tr Ctr RT-3853

SLA 61-16619

Sci - Chemistry
Aug 56 CTS/dec

37,543

Alkylation With Olefines in the Presence of
Aluminum Chloride, Communication II., 15 pp.
by S. I. Lurie, A. Ya. Golovacheva

RUSSIAN, no per, Zhur Obshch Khim, Vol XIII,
No 3, 1943, pp 195-201.

Sci Tr Center
RT-3854

37, 882

Sci - Chemistry

Aug 1956

SLA 61-10631

The Mechanism of Contact Transformations of Hydrocarbons on a Vanadium Catalyst. III. The Contact Transformations of Ethyl-Cyclopentane, by A. F. Plate, O. D. Sterligov, 24 pp.

RUSSIAN, no per, Zhur Obshch Khim, Vol XIII, No 3, 1943, pp 202-212.

Sci Tr Center
RT-3858

Sci - Chemistry

37,883.

Aug 1956

SLA 61-10000

Solubility of Lithium Bromate and of its hydrates,
Communication II, by I. N. Averko-Antonovich,
7 pp.

RUSSIAN, per, Zhur Obshch Khim, Vol XIII, 1945,
pp 272-274, 9230303.

AEC BNL-tr-5

292,9847

Sci-Chem
Nov 65

Polymerization of Isobutylene Over Hydrosilicic
Catalysts. Communication III., by B. A. Kazanskiy,
M. I. Rozengart, 9pp.

RUSSIAN, no per, Zhur Obshch Khim. Vol XIII,
No 4-5, 1949, pp 304-308.

Sci Tr Ctr- RT-3808

Sci-Chemistry
Aug 56 CTS/des:

37,537

A New Method of Separating Lupinine From Crude
Anabasine Sulphate, by A. Sadykov, G.
Lazurevski

RUSSIAN, per, Zhur Obshch Khim., Vol XIII, 1943,
pp 319-321.

AEC Tr 1153

Scientific - Chemistry

Turova-Polyak, M. B. and Rappoport, P. L.
ISOMERIZATION OF POLYMETHYLENE HYDRO-
CARBONS UNDER THE ACTION OF ALUMINUM
CHLORIDE. X. ISOMERIZATION OF METHYL-
CYCLOHEPTANE. [1961] 5p. 11 refs.
Order from OTS or SLA \$1.10

61-16660

Trans. of Zhurnal Obshchei Khimii (USSR) 1943,
v. 13, p. 333-357.

DESCRIPTORS: *Hydrocarbons, *Cycloheptanes,
*Molecular isomerism, Aluminum compounds,
Chlorides.

Interaction of methylene cycloheptane with aluminum chlor-
ride, accompanied by liberation of heat, results in com-
plete conversion of methylcycloheptane into dimethyl-
cyclohexane. Under the conditions of catalytic dehydro-
genation methylcycloheptane undergoes an isomeri-
(Chemistry--Organic, TT, v. 6, no. 7) (over)

61-16660

- I. Turova-Polyak, M. B.
- II. Rappoport, P. L.
- III. Title: Isomerization of Methylcycloheptane

15171

Office of Technical Services

Polarographic Determination of Copper, Nickel,
Cobalt, Zinc and Cadmium When Simultaneously
Present, by D. P. Malyuga.

RUSSIAN, no per, Zhur Obshch Khim, Vol XIII,
No 6, 1943, pp 391-397.

Assoc Tech Sv RJ-259
\$12.00

Scientific - Chemistry; m/m.
CIB 73/Oct 1955

27,695

Shostakovskii, M. F. and Sidel'kovskaya, F. P.
STUDIES IN THE FIELD OF THE POLYMERIZATION
OF SIMPLE VINYL ETHERS: VINYL-ISOBUTYL
ETHER (Issledovaniya v Oblasti Polimerizatsii
Prostykh Vialkovykh Efirov: Vinyl-Izobutilovyi Efir).
[1963] [20p] (foreign text included) 7refs
Order from OTS or SLA \$1.60

63-20181

Trans. of Zhurnal Obshchei Khimii (USSR) 1943,
v. 13, no. 6, p. 428-435.
Abstract trans. is available from OTS or SLA \$1.10
as 62-16830 [1962] 4p.

DESCRIPTORS: *Vinyl radicals, *Butyl radicals,
*Propyl radicals, *Ethers, Polymerization, *Catalysts,
*Tin compounds, Chlorides, Density, Refractive
index, Viscosity, Saponification, *Polyvinyl alcohol.

(Chemistry--Organic, TT. v. 10, no. 12)

63-20181

- I. Title: Vinyl isobutyl ether
- I. Shostakovskii, M. F.
- II. Sidel'kovskaya, F. P.
- III. Title: Vinyl-isobutyl...

Office of Technical Services

Investigation in the Ketone Series. II.
Condensation of Monoketones with Cyanoacetic
Acid, by D. M. Trakhtenberg, M. N. Shem'akin,
7 pp.

RUSSIAN, no per, Zhur Obshch Khim. Vol XIII, No
6, 1943, pp 477-480.

Sci Tr Center

RT-3831

0

37,885

Sci - Chemistry

Aug 1956

Maslyanski, G. N.
KINETICS OF ISOMERIZATION OF CYCLOHEXANE
UNDER ELEVATED PRESSURES. [1961] 11p. 28 refs.
Order from OTS or SLA \$1.10 61-16913

Trans. of Zhurnal Obshchei Khimii (USSR) 1943, v. 13,
p. 540-551.

DESCRIPTORS: *Cyclohexanes, Reaction kinetics,
Catalysts.

The catalytic isomerization of cyclohexane over molyb-
denum sulfide under hydrogen pressure was investi-
gated and the kinetic regularities of this reaction
established. The isomerization velocity depends upon
the partial pressure of cyclohexane, but is independent
of the partial pressure of hydrogen. The order of the
reaction of isomerization of cyclohexane over molybde-
num sulfide is close to 0.6. The apparent energy of
activation of cyclohexane at 370-430° is 35,400 ± 1,000
calories. Accordingly the temperature coefficient is
(Chemistry--Physical, TT, v. 6, no. 7) (over)

61-16913

I. Maslyanski, G. N.

1961

Office of Technical Services

61-16897

Pokrovskaya, E. S.
SYNTHESIS OF POLYCYCLIC HYDROCARBONS. I.
HYDROCARBONS OF THE SERIES OF α -METHYL-
CYCLOPENTYLNAPHTHALENE. [1961] 4p. 9 refs.
Order from OTS or SLA \$1.10 61-16897

I. Pokrovskaya, E. S.
II. Title: Hydrocarbons ...

Continued trans. of Zhurnal Obshchei Khimii (USSR)
1943, v. 13, p. 579-583.

DESCRIPTORS: *Hydrocarbons, *Polycyclic compounds,
*Naphthalenes, Synthesis.

By condensation of α -methylnaphthalene with cyclo-
pentene in the presence of aluminum chloride, α -methyl-
cyclopentyl-naphthalene, α -methylidicyclopentyl-naphtha-
lene and α -methyltricyclopentyl-naphthalene were ob-
tained. The first two of these hydrocarbons were again
condensed with cyclopentene under the same conditions
and α -methyltricyclopentyl-naphthalene was obtained.
The specific gravities of these hydrocarbons are some-
(Chemistry--Organic, TI, v. 6, no. 7) (over)

18177

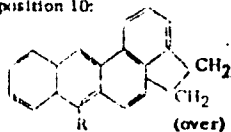
Office of Technical Services

Mikhiliev, E. M. and Blokhina, A. N.
 SYNTHESIS OF POLYCYCLIC COMPOUNDS. VIII.
 10-ALKYL DERIVATIVES OF 3,4'-ace-1,2-BENZ-
 ANTHRACENE. [See I] and 13 refs.
 Order from OTS or SLA \$1.10 61-16896

Condensed trans. of Zhurnal Obshchei Khimii (USSR)
 1965, v. 35, p. 609-615.

DESCRIPTORS: *Polycyclic compounds, Benzenes,
 *Anthracenes, Synthesis, Alkyl radicals.

Synthesis of four 3,4'-ace-1,2-benzanthracenes is re-
 ported, containing a methyl, ethyl, normal propyl or
 normal butyl radical in position 10:



61-16896

I. Mikhailov, B. M.
 II. Blokhina, A. N.
 III. Topic: 10-Alkyl ...

INTRO

Office of Technical Services
 (Chemistry--Organic,
 TT, v. 6, no. 7)

Getling, V. A. and Shchekin, V. V.
PREPARATION OF SOME HIGH MOLECULAR HY-
DROCARBONS. [1961] 4p. 16 refs.
Order from OTS or SLA \$1.10 61-16899

Condensed trans. of Zhurnal Obshchei Khimii (USSR)
1943, v. 13, p. 717-721.

DESCRIPTORS: *Hydrocarbons, Synthesis, Catalysts,
Hydrogenation, Molecular weight, Alcohols, Benzenes,
Cyclohexanes.

Synthesis of normal octadecane in mixture with normal
octadecyl alcohol is reported by hydrogenation of sun-
flower oil fatty acids over a copper-chromium cata-
lyst. From normal octadecyl alcohol and benzene,
normal octadecylbenzene was obtained, and this was
hydrogenated quantitatively to normal octadecylcyclo-
hexane. (Author)

(Chemistry--Organic, TT, v. 6, no. 8)

61-16899

I. Getling, V. A.
II. Shchekin, V. V.

105120

Office of Technical Services

Nikolaeva, A. F. and Frost, A. V.
CATALYTIC ACTION OF ACTIVE ALUMINO-SILI-
CATES. III. CONVERSION OF HEXBNE OVER ACTI-
VATED CLAY. [1961] 3p. 3 refs.
Order from OTS or SLA \$1.10

61-16898

Trans. of Zhurnal Obshchei Khimii (USSR) 1943, v. 13,
p. 735-735.

DESCRIPTORS: *Cyclohexenes, Catalysts, Clays,
Aluminum compounds, *Silicates, Catalysts.

(Chemistry--Organic, TT, v. 6, no. 7)

61-16898

I. Nikolaeva, A. F.
II. Frost, A. V.
III. Title: Conversion...

Office of Technical Services

Ya. A. Fialkov

Electric conductivity of iodine solutions. 3: Electric conductivity of the system: I-Me4NI

ZH. OBSHCH. KHIM., Vol 13, 1943, pp 753-761

NASA TT F 13,911

max 73

The Separation of Anabasine and Luinine from an Alkaloid Mixture Using a Liquid Ammonia Mixture, y by A. Sadykov, dn and N. Spasokutotskii.

Full translation.

RUSSIAN, per Zhur Obshch Khim, Vol XIII, USSR, 1943, pp 830-833.

Scientific - Chemistry

AEC Tr: 1264

Differential Thermocouple Method in Heterogeneous
Catalysis, by A. A. Balandin, V. V. Patrikeyev,
10 pp.

RUSSIAN, no par, Zhur Obshch Khim, Vol XIV, No 1/2
1944, pp 57-69.

Sci Tr Center
RT -2656

28,988

Scientific - Chemistry
Dec 55 CUS/DEX

27 11 1944

Electrochemical Thiocyanation of Organic Compounds. I
Ccm. IIN. Thiocyanation of p-substituted Aromatic AME
Amines, by N. N. Mel'nikov, E. M. Cherkasova,
6 pp UNCLASSIFIED

RUSSIAN, per, Zhur Obshchei Khim, Vol XIV, No 1-2,
1944, pp 113-115,

Sci Tr Center
RT-1009

Scientific - Chemistry

15,356

Nazarova, Z. N. and Tsakervanik, I. P.
ALKYLATION OF AROMATIC COMPOUNDS WITH
ALCOHOLS IN THE PRESENCE OF ANHYDROUS
FERRIC CHLORIDE. [196.] 4p. 4 refs.
Order from ODS or SLA \$1.10

61-16906

Transl. of Zhurnal Obshchei Khimii (USSR) 1944,
v. 14 [no. 172] p. 77-80.

DESCRIPTORS: *Alcohols, *Iron compounds, *Chlo-
rides, *Catalysis, Condensation reactions, Alkyl
radicals, *Reaction kinetics, Phenols, Benzenes

Attempts to condense normal primary aliphatic alco-
hols with benzene and phenol in the presence of an-
hydrous ferric chloride were unsuccessful. Experi-
ments of condensation of benzyl alcohol with benzene
and phenol gave diphenylmethane and benzylphenol.
(Chemistry--Physical. TT, v. 7, no. 3) (over)

61-16906

I. Nazarova, Z. N.
II. Tsakervanik, I. P.

Office of Technical Services

Synthesis of Chlorostyrenes, by S. N. Ushakov,
P. A. Matusov, 13 pp.

RUSSIAN, no per, Zhur Obshch Khim, Vol XIV,
No 1/2, 1944, pp 120-127.

Sci Tr Center
RT-3833

Sci - Chemistry

37,888

Aug 1956

Maslyanski, G. N.
DESTRUCTIVE HYDROGENATION OF BENZENE.
[1961] 10p. 28 refs.
Order from OTS or SLA \$1.10

61-18193

61-18193

I. Maslyanski, G. N.

Trans. of Zhurnal Obshchei Khimii (USSR) 1944, v. 14,
p. 145-160.

DESCRIPTORS: *Benzenes, Hydrogenation, Hydrocarbons, Catalysts, Molybdenum compounds, Oxides.

Molybdenum oxide catalysts suitable for destructive hydrogenation in the vapor phase, developed at the author's laboratory, were previously found to be very efficient in cracking of hydrocarbons. In order to investigate the nature of the chemical reactions occurring on these catalysts, conversion of benzene was studied in this work and the products obtained investigated, considering also the results reported by some other authors. Among these products, methylcyclopentane (58%), normal pentane (1.5%), 2-methylbutane (1.5%).
(Chemistry--Organic, TT, v. 6, no. 7) (over)

Office of Technical Services

Nazarova, Z. N. and Tsukervanik, L. P.
MECHANISM OF REACTIONS OF ALKYLATION UN-
DER THE INFLUENCE OF ANHYDROUS FERRIC
CHLORIDE. [1961] 10p. 15 refs.
Order from OTS or SLA \$1. 10

61-18168

Trans. of Zhurnal Obshchei Khimii (USSR) 1944, v. 14
p. 236-244.

DESCRIPTORS: *Iron compounds, *Chlorides, *Catal-
ysis, *Alcohols, Condensation reactions, Ethyl radi-
cals, Reaction kinetics, Bromides, Alkyl radicals.

It was established that no condensation of ethyl bro-
mide, normal butyl chloride and isoamyl chloride with
aromatic hydrocarbons occurs in the presence of fer-
ric chloride. In this respect the difference between
aluminum chloride and ferric chloride is especially
pronounced. A study of interaction of alcohols with
(Chemistry--Physical, TT, v. 6, no. 9) (over)

61-18168

I. Nazarova, Z. N.
II. Tsukervanik, L. P.

005425

Office of Technical Services

Turova-Polyak, M. B. and Novitskii, K. Yu.
ISOMERIZATION OF POLYMETHYLENE HYDRO-
CARBONS (UNDER THE ACTION) OF ALUMINUM
CHLORIDE. XI. ISOMERIZATION OF CYCLO-
OCTANE. [1961] 6p. 9 refs.
Order from OTS or SLA \$1.10

61-18163

Treat. of Zhurnal Obshchei Khimii (USSR) 1944, v. 14,
p. 337-342.

DESCRIPTORS: *Hydrocarbons, *Molecular isomerism,
*Cyclooctanes, Cyclohexanes, Aluminum compounds,
Chlorides.

Isomerization of cyclooctane in the presence of alumi-
num chloride was investigated. Interaction of cyclo-
octane with aluminum chloride, attended by liberation
of heat, was found to bring about complete conversion
of cyclooctane into dimethylcyclohexane. Thus, isom-
erization of an eight-membered naphthenic ring into a
six-membered ring was established. (Author) (See
also 61-16660)

61-18163

- I. Turova-Polyak, M. B.
- II. Novitskii, K. Yu.
- III. Title: Isomerization of
Cyclooctane

Office of Technical Services

(Chemistry--Organic, TT,
v. 6, no. 7)

Moldavskii, B., Nebyl'ova, E., and Nizovkina, T.
 ISOMERIZATION OF HYDROCARBONS. VI. INVESTIGATION OF BY-PRODUCTS FORMED IN ISOMERIZATION OF BUTANES AND PENTANES BY ALUMINUM HALIDES AND THE MECHANISM OF THEIR FORMATION. [1961] pp. 11 refs.
 Order from OTS or SLA \$1.10

61-18162

Trans. of Chemical Obshchei Khimii (USSR) 1944, v. 14, p. 343-349.

DESCRIPTORS: *Hydrocarbons, *Molecular isomerism, *Butanes, *Pentanes, Aluminum compounds, Chlorides.

Isomerization of butanes and pentanes by aluminum chloride forms hydrocarbon by-products which boil below and above the boiling point of the initial hydrocarbon. The mechanism of formation of these hydrocarbons involves demethylation and methylation of butanes and pentanes by aluminum chloride. In the case (Chemistry--Organic, TT, v. 6, no. 7) (over)

61-18162

I. Moldavskii, B.
 II. Nebyl'ova, E.
 III. Nizovkina, T.
 IV. Title: Investigation...

18162

Office of Technical Services

Moldavskii, E. and Zharkova, V.
ISOMERIZATION OF HYDROCARBONS. VII. ANALY-
SIS OF MIXTURES OF ISOMERIC PENTENES. [1961]
Sp. 7 refs.

Order from ODS or SLA \$1.10

61-18161

Trans. of Zhurnal Obshchei Khimii (USSR) 1944, v. 14,
p. 359-364.

DESCRIPTORS: *Hydrocarbons, *Molecular isomerism,
*Pentenes, Determination.

A method of analysis of mixtures of isomeric pentenes
was developed, consisting in distilling off 3-methyl-1-
butene and determining in the residue the total amount
of unsaturated and that of unsaturated with a double
bond at a tertiary carbon atom. This method is suitable
also to the determination of other olefins, for instance
those containing 4, 6 or 7 carbon atoms and possessing
a double bond at a tertiary carbon atom. The analytical
(Chemistry--Organic, TT, v. 6, no. 7) (over)

61-18161

I. Moldavskii, E.
II. Zharkova, V.
III. Title: Analysis ...

15178

Office of Technical Services

Thermal Analysis of the System NaF-BeF₂. X-Ray
Analysis of This System, by A. V. Novoselova, M. E.
Levina, 30 pp.

RUSSIAN, per, Zhur Obshch Khim, Vol XIV, No 6,
1944, pp 385-402.

28,910

Sci Tr Center
RT-2187

Scientific - Chemistry

Nov 55 OTS/DEX

Gas-Permeability and Microstructure of
Highpolymeric Compounds, by S. A. Reitlinger,
6 p.

RUSSIAN, per, Partial Trans, (p 420-423) of
Zhurnal Obshchey Khimii, 1944, Vol XIV, No 6
pp 420-427.

SLA 62-10848
SLA 59-15848

Sci
Jan 60
Vol 2, No 5

<p>Zavgorodnii, S. V. BORON FLUORIDE AS A CATALYST IN ORGANIC CHEMISTRY. III. VELOCITY OF CONDENSATION OF CYCLOHEXENE WITH CARBOXYLIC ACIDS IN THE PRESENCE OF BORON FLUORIDE IN SOL- VENTS. [1961] 3p. 11 refs. Order from OTS or SLA \$1.10</p> <p>[Condensed] trans. of Zhurnal Obshchei Khimii (USSR), 1944, v. 14, no. 6, p. 428-434.</p> <p>DESCRIPTORS: *Boron compounds, *Fluorides, Catalysts, *Cyclohexenes, *Carboxylic acids, Con- densation, Velocity, Organic solvents.</p> <p>(Chemistry--Organic, TT, v. 7, no. 11)</p>	<p>62-10849</p> <p>I. Zavgorodnii, S. V. II. Title: Velocity...</p> <p>Office of Technical Services</p>
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Korshak, V. V. and Kolesnikov, G. S.
MECHANISM OF THE FRIEDEL-CRAFTS RE-
ACTION. I. [1961] 3p. 8 refs.
Order from OTS or SLA \$1.10

62-10850

[Condensed] trans. of Zhurnal Obshchei Khimii (USSR)
1944, v. 14, no. 6, p. 435-437.

DESCRIPTORS: *Friedel-Crafts reactions, Chemical
reactions, Benzenes, Ketones.

(Chemistry--Organic, TT, v. 7, no. 11)

62-10850

I. Korshak, V. V.
II. Kolesnikov, G. S.

Office of Technical Services

Petrov, A. D. and Kurbakii, G. P.
SYNTHESIS AND PROPERTIES OF MONOALKYL
NAPHTHALENES (C₁₇-C₂₁) AND SOME HYDROGE-
NATED DERIVATIVES OF THEM. [1961] 3p. 8 refs.
Order from OTS or SLA \$1.10 61-18204

Trans. of Zhurnal Obshchei Khimii (USSR) 1944, v. 14,
p. 492-494.

DESCRIPTORS: *Naphthalenes, Synthesis, Antiknock,
Alkyl radicals, Hydrocarbons.

Synthesis of four alkylated naphthalenes with from 17
to 21 carbon atoms is reported; two of these were
hydrogenated to the corresponding decalin derivatives.
Four points and antiknock properties of these hydro-
carbons expressed in cetene numbers were determined.
(Author)

(Chemistry--Organic, TT, v. 6, no. 7)

61-18204

I. Petrov, A. D.
II. Kurbakii, G. P.

61-18204

Office of Technical Services

Petrov, A. D. and Lapova, E. I.
SYNTHESIS AND PROPERTIES OF SOME HIGHER
HOMOLOGS OF BENZENE, III [1961] 3p. 12 refs.
Order from OTS or SLA 51.10 61-18203

Trans. of Zhurnal Obshchei Khimii (USSR) 1944, v. 14,
p. 495-497.

DESCRIPTORS: *Benzenes, Synthesis, Chemical
properties.

Properties of newly synthesized propyloctylphenyl-
methane and dibutylnoxyphenylmethane were studied
and boiling curve numbers of methylnoxyphenyl-
methane were determined. (Author)

(Chemistry--Organic, TT, v. 6, no. 7)

61-18203

I. Petrov, A. D.
II. Lapova, E. I.

15180

Office of Technical Services

Petrov, A. D., Shchupina, Z. K., and Ol'dekop,
Yu. A.
SYNTHESIS OF 9, 10-DIMETHYLOCTADECANE AND
9, 10-DIPROPYLOCTADECANE. [1961] 3p. 13 refs.
Order from OTS or SLA \$1. 10 61-18202

Trans. of Zhurnal Obshchei Khimii (USSR) 1944,
v. 14, p. 498-500.

DESCRIPTORS: Synthesis, *Propanes, Hydrocarbons,
*Fuel oil, Methyl radicals, Alkyl radicals, Propyl
radicals, *Methanes, Viscosity, Antiknock.

Synthesis of two isoparaffins with 20 and 24 carbon
atoms, respectively, was effected, namely, 9, 10-
dimethyloctadecane and 9, 10-dipropyloctadecane.
These hydrocarbons are characterized by low pour
points, satisfactory antiknock properties and a flat
temperature-viscosity curve. (Author)

(Chemistry--Organic, TT, v. 6, no. 8)

61-18202

I. Petrov, A. D.
II. Shchupina, Z. K.
III. Ol'dekop, Yu. A.

61-18202

Office of Technical Services

The Study of the Reaction of Sulfonation II. The
Influence of Time and Excess of Sulfonated
Substance Upon the Process of the Reaction, by
A. A. Sprynkov, 15 p.

RUSSIAN, per, Zhur. Obsh. Khim., 1944, Vol XIV,
No 7/8, pp 833-841.

SLA 59-17827

Sci
Feb 60
Vol 2, No 10

108,837

Kuznetsov, V. I.
 REACTION COLOMHE SUR LE THORIUM
 I. REACTIFS ORGANIQUES POUR LE THORIUM
 (Color Reaction of Thorium. I. Organic Reagent for
 Thorium) tr. by M. Kefau, Y. 9 May 60 [13]p. 9 refs.
 CEA Trans. no. R 897 (text in French).
 Order from OTS or SLA \$1.60 61-23813

Trans. in French of Zh[urnal] Obshch[est] Khim[ii]
 (USSR) 1944, v. 14, no. 9/10, p. 914-919.
 A translation in English available from SLA as
 RT-2824.

DESCRIPTORS: *Thorium, *Reagents, Colors,
 Chemical reactions, USSR.

Jei Thau... No 5/13: 61
Use 450 unit dated
20 June 60
 (Chemistry--Organic, TT, v. 6, no. 6)

61-23813

- I. Kuznetsov, V. I.
- II. Title: Reactifs...
- III. Title: Organic...
- IV. CEA-tr-R897
- V. Commissariat à l'Énergie Atomique (France)

176694

Office of Technical Services

Platc, A. F., Sterligov, O. D., and Bazhulin, P. A.
HYDROCARBONS OF THE SERIES OF CYCLOPENTANE WITH A DOUBLE BOND IN THE SIDE CHAIN:
4-CYCLOPENTYL-2-BUTENE AND 3-CYCLOPENTYL-1-BUTENE. [1961] 6p. 16 refs.
Order from OIS or SLA \$1. 10

61-18214

Trans. of Zhurnal Obshchei Khimii (USSR) 1944, v. 14, p. 955-959.

DESCRIPTORS: *Hydrocarbons, *Cyclopentanes,
*Butenes, Synthesis, Raman spectroscopy.

Interaction of cyclopentylmagnesium chloride with the product of addition of 1 molecule of hydrogen bromide to butadiene forms a mixture of unsaturated hydrocarbons from which 3-cyclopentyl-1-butene was isolated in pure state and 4-cyclopentyl-2-butene as a mixture of its cis and trans isomers. The structure of these olefins was proved by a study of their Raman spectra.

(Author)

(Chemistry--Organic, TT, v. 6, no. 7)

61-18214

I. Platc, A. F.
II. Sterligov, O. D.
III. Bazhulin, P. A.

Office of Technical Services

The Chemistry of Phosphorous, by Y. I. Mikhailenko.
V. I. Semishin, 6 p;

RUSSIAN. per, Zhur Obshchei Khim, Vol XIV, 1944,
pp 1025-1029.

SLA R-3028

Sci

Jul 59

92, 354

Ushakov, M. I. and Kosheleva, N. F.
PHOTOPOLYMERIZATION OF $\Delta^4,6$ -CHOLESTADIENONE, in: by Z. D. Knowles. 25 Oct 51, 10p.
4 refs.

Order from OTS or SLA \$1.10

61-28119

Trans. of Zhurnal Obshchei Khimii (USSR) 1944, v. 14, no. 11/12, p. 1138-1141

DESCRIPTORS: *Cholestenone, Polymerization, Ultraviolet radiation, Hydrogenation, Hexanes, Cholesterol, Photo-chemistry, Chemistry.

At exposure to ultraviolet light of a solution of $\Delta^4,6$ -cholestadienone in hexane, a dimer- $\Delta^4,6$ -cholestadienone is obtained which at heating dissociates, yielding inversely $\Delta^4,6$ -cholestadienone. At catalytic hydrogenation with palladium black $\Delta^4,6$ -cholestadienone ($C_{27}H_{44}O$) at the splitting off of water converts into (Chemistry--Organic, T.F. v. 7, no. 5) (over)

61-28119

- I. Ushakov, M. I.
- II. Kosheleva, N. F.
- III. National Institutes of Health, Bethesda, Md.

Office of Technical Services

61-18249

Vvedenskii, A. A. and Fel'dman, L. F.
THERMODYNAMICS OF SYNTHESIS OF ETHYL
ALCOHOL FROM ETHYLENE AND WATER. [1961]5p.
19 refs.

Order from OTS or SLA \$1.10 61-18249

Trans. of Zhurnal Obshchei Khimii (USSR) 1945, v. 15
[no. 1/2] p. 37-41.

DESCRIPTORS: *Ethanol, Synthesis, Thermodynamics,
Ethylene, Water, Chemical reactions, Chemical equi-
librium.

The concentration of ethyl alcohol in the equilibrium
gaseous mixture was calculated at temperatures of
from 150 to 400° and pressures from 30 to 200 atm.
(Author)

(Chemistry--Organic, TT, v. 6, no. 10)

I. Vvedenskii, A. A.
II. Fel'dman, L. F.

61-18249

Office of Technical Services

The Study of the Amination of Organic Halogen
Compounds in Liquid Ammonia, 2. The Reaction
Between Liquid Ammonia and Lower Alkyl Halides,
by N. S. Spasokukotskiy, G. S. Markova,
A. I. Shatenshtein, 29 pp.

RUSSIAN, per, Zhur Obshch Khim, Vol IV,
No 2 1/2, 1945, pp 42-59.

Sci Ma Lib No 54/2913

Natl Arch/T 443

Scientific - Chemistry

Nov 1954 CTS

18,697

Camphene Rearrangement of the Second Type, by
Kvachuk I. K. Sivkov, 8 pp.

RUSSIAN, per, Zhur Obshch Khim, Vol XV, No 1-2,
1945, pp 70-74.

Sci Tr Center
RT-1418

Scientific - Chemistry

18,880

Детерминация активного водорода с реактивом Гриньяра в атмосфере углекислого газа, А. П. Тарентьев, К. Д. Шибарбукова.

Full translation.

RUSSIAN, per, Zhur Obshch Khim, Vol XV, 1945, pp 86-89.

AISC Tr 1574

Scientific - Chemistry

May 53 CTS

210/
210

61-18251

Plato, A. F. and Tarasov, G. A.
MECHANISM OF CONTACT CONVERSIONS OF HY-
DROCARBONS ON A VANADIUM CATALYST. IV.
DEHYDROGENATION OF SIX-MEMBERED RINGS.
[1961] 9p. 12 refs.
Order from OTS or SLA \$1.10 61-18251

Trans. of Zhurnal Obshchei Khimii (USSR) 1945, v. 15,
p. 120-130.

DESCRIPTORS: *Hydrocarbons, *Cyclohexanes,
Methyl radicals, Dehydrogenation, *Vanadium, Cata-
lysts, Catalysts.

Dehydrogenation of cyclohexane and of methylcyclohex-
ane was investigated on a vanadium catalyst within the
temperature interval of 440 to 500°. The principal re-
action consists in this case in the formation of aro-
matica and the corresponding cycloolefins. Simultane-
(Chemistry--Organic, TT, v. 6, no. 10) (over)

I. Plato, A. F.
II. Tarasov, G. A.
III. Title: Dehydrogenation ...

1241

Office of Technical Services

Specific Weight of Aqueous Solutions of Formic and Acetic Acids, by A. A. Galgoleva, 7 pp.

RUSSIAN, per, Izur Obshch Khim, Vol XV, 1945, pp 131-134.

ABC Tr 3756

Sci - Chem

Sep 59

96,731

Shilov, E. A.
CATALYTIC INFLAMMATION OF MIXTURES OF
CHLORINE WITH ETHYLENE AND OTHER COMBUS-
TIBLE GASES. [1961] 8p. 7 refs.
Order from OLS or SLA \$1.10

61-18248

Trans. of Zhurnal Obshchey Khimii (USSR) 1945, v. 15
[no. 3] p. 135-141.

DESCRIPTORS: *Chlorines, *Ethylenes, *Gases,
*Oxides, Inflammable materials, Catalysts, Ignition,
Additives, Thermochemistry, Combustion.

Inflammation of mixtures of chlorine with ethylene was
studied in the presence of various volatile and non-
volatile additions. Oxides of mercury, silver and lead
successfully reduce the inflammation temperature.
Mixtures of ethylene and chlorine explode even at room
temperature on mercurous and mercuric oxides, on
(Chemistry--Physical, TT, v. 6, no. 10) (over)

61-18248

I. Shilov, E. A.

187239

Office of Technical Services

62-10854

JOURNAL OF GENERAL CHEMISTRY, 1945, VOL. 15,
NO. 3: [TABLE OF CONTENTS AND SELECTED
ABSTRACTS]. [1962] 8p. 6 refs.
Order from OTS or SLA \$1.10

62-10854

Abstract trans. of Zhurnal Obshchei Khimii (USSR)
1945, v. 15, no. 3, p. 141-149, 165-188, 252-258.
##Complete translations of p. 165-168 and 173-176 are
available from SLA as RT-1444 and RT-1008.

DESCRIPTORS: *Chemistry, *Abstracts, Molecular
isomerism, Methyl ethers, Hydroxides, Naphthalenes,
Quinones, Catalysts, Catalysis, Chemical reactions,
Nitrogen compounds, Oxides, Ethyl ethers, Reaction
kinetics, Styrenes, Polymerization, Rubber, Oxidation,
Propionic acids, Bromides, Esters, Nicotinic acid.

Contents:

Isomerization of dimethyl ether of 1, 4-dihydro- α -naph-
(Chemistry, IT, v. 9, no. 9) (over)

- I. Title: Action of N_2O_3 ...
- II. Title: Practical...
- III. Title: Some...

Office of Technical Services

Plate A. F.
MECHANISM OF CONTACT CONVERSIONS OF HY-
DROCARBONS ON A VANADIUM CATALYST. V.
SIMULTANEOUS HYDROGENATION AND DEHYDRO-
GENATION OF CYCLOHEXENE (CYCLOHEXENE
AND CYCLOPENTENE) [Mekhanizm Kontaknykh
Prevrashcheniy Uglevodorodov na Vandyevom
Katalizatore]. [1961] 10p. 34 refs.
Order from OTS or SLA 61.10

61-18246

Trans. of Zhurnal Khimicheskoi Akimii (USSR) 1965, v. 15
[no. 3] p. 153-165.

DESCRIPTORS: *Hydrocarbons, *Cyclohexenes,
*Cyclopentenes, Hydrogenation, Dehydrogenation,
Vanadium catalysis, Monocyclic compounds.

Investigation of the behavior of cyclohexene in the
presence of vanadium trioxide on aluminum oxide as a
catalyst revealed the diversity and complexity of the
conversion occurring, which should be taken into ac-
(Chemistry--Organic, TT, v. 6, no. 7) (over)

61-18246

- I. Title: Contact conversion
1. Plate, A. F.
- II. Title: Simultaneous...

1965

Office of Technical Services

Zhur Obshch Khim XV, 724-8, 1945

Equilibrium in the Systems $\text{NH}_4\text{F}-\text{H}_2\text{O}$ and $\text{NH}_4\text{HF}_2-\text{H}_2\text{O}$.

V. S. Yatlov and E. M. Polyakova

(Wilson Dan 2482)

The Action of Nitrogen Oxides on Unsaturated Ethers.
Comm. II. Action of H_2O_3 on Ethyl-allyl Ether,
by N. Ya. Maslov, 7 pp.

RUSSIAN, par, Zhur Obshch Khim, Vol XV, No 3,
1945, pp 165-168.

Sci Tr ~~Sci~~ Center
RT-1444

18,902

Scientific - Chemistry

Polymerisation of Styrene in a High Frequency Field,
by N. V. Shorygina, E. I. Petrova, 6 pp
UNCLASSIFIED

RUSSIAN, Per, Zhur Obshch Khim, VolXV, No № 3,
1945, pp 173-176.

Sci Tr Center
RT-1008

Scientific - Chemistry

15 353

Investigation of the Alkaloids of *Trachelanthus*
Korolkovi. II, by G. P. Men'shikov, G. M. Borodina,
18 pp.

RUSSIAN, per, Zhur. Obshchei Khimii, Vol. XV, No 3,
1945, pp 225-236.

Sci Tr Center RT-2502

USSR
Scientific - Chemistry

28,271

Nov 55
CTB/DEX

Nikitin, V. M.
EFFECT OF CADMIUM ON DEHYDRATION OF
ETHANOL OVER ALUMINA. [1961] 4p. 4 refs.
Order from OTS or SLA \$1.10
61-20126

Trans. of Zhurnal Obshchei Khimii (USSR) 1945, v. 15,
p. 273-276.

DESCRIPTORS: *Ethanol, Decomposition, *Cadmium
compounds, Nitrates, Chemical reactions, Dehy-
dration, *Aluminum compounds, Oxides, Dehydro-
genation, Catalysts.

Decomposition of ethanol over alumina with an ad-
mixture of cadmium nitrate was studied. Addition of 1
mole cadmium nitrate to 60 moles alumina causes con-
version of the latter from a dehydrating catalyst to a
dehydrogenating catalyst, and with a larger amount of
cadmium present the character of conversion of alko-
(Chemistry--Physical, IT, v. 7, no. 2) (over)

61-20126

I. Nikitin, V. M.

Office of Technical Services

JOURNAL OF GENERAL CHEMISTRY, 1945, VOL. 15,
NO. 4/5: [TABLE OF CONTENTS AND SELECTED
ABSTRACTS]. [1962] 5p. 14 refs.
Order from OTS or SLA \$1.10

62-10855

Abstract trans. of Zhurnal Obshchei Khimii (USSR)
1945, v. 15, no. 4/5, p. 332-340 and 363-366.

DESCRIPTORS: *Chemistry, *Abstracts, Bromides,
Phthalic acids, Imides, Molecular structure, Synthesis
(Chemistry), Hydrogenation, Molecular isomerism,
Benzenes, Butyl radicals, Calcium, Ammonium
radicals.

Contents:

Bromophthalimide, its structure and application in
organic syntheses, by N. I. Putokhin
Hydrogenation of isomers of butylbenzene with calcium-
ammonium, by S. I. Khromov and Z. A. Rumyantseva
(Chemistry, TT, v. 9, no. 9)

62-10855

Office of Technical Services

Zhurn Obshch Khim, Vol XV, # 4/5, 341-52 (1945)

*"The Kinetics and Mechanism of the Thermal
Decomposition of Iso-Butane @ low Pressures:"*

By A.D. Stepankhovich

AEC Translation # 209

21 June, 1950.

Available @ Brookhaven

Polymerization of Arylvinyl Ethers, by P. Lossev,
O. Ya. Fedotova, Trostyanskaya, E. B., 8 pp.

RUSSIAN, per, Zhur Gashch Khin, Vol XV, No 4/5,
1945, pp 353-357.

SLA 59-15838

Sci
Dec 59
Vol 2, No 5

103,590

Nametkin, S. S. and Abakumovskaya, L. N.
HYDROPOLYMERIZATION OF 3-METHYL-1-
BUTENE BY 100 PER CENT SULFURIC ACID. [1961]
4p. 5 refs.
Order from OTS or SLA \$1. 10

61-20129

Trans. of Zhurnal Obshchei Khimii (USSR) 1945,
v. 15, p. 358-361.

DESCRIPTORS: *Sulfuric acid, *Butenes, Polymers,
*Polymerization, *Hydrogenation, Hydrocarbons,
Ethylenes, Methyl radicals.

Hydropolymerization of 3-methyl-1-butene under the
action of 100% sulfuric acid was studied under different
conditions. Formation in this reaction of hydrogen-
ated polymers from dimers to hexamers, inclusive,
was shown. When 100% sulfuric acid is used, the hy-
dropolymerization of 3-methyl-1-butene forms more
(Chemistry--Organic, TT, v. 7, no. 5) (over)

61-20129

I. Nametkin, S. S.
II. Abakumovskaya, L. N.

Office of Technical Services

Effect of Pinacoline on Magnesium Tertbutyl Chloride
Solution, by V. H. Tolstopiatov, I. V. Voroshilova,
18 pp.

RUSSIAN, no par, Zhur Obshch Khim, Vol XV, No 6,
1945, pp 565-573.

Sci Tr Center
RT-3901

39,149

Sci - Chemistry
Rep 56 CHS/dec:

Zhdanov, A. K.
INCREASE OF ENTROPY IN THE FORMATION OF
AZEOTROPIC MIXTURES. II. [1961] 5p. 7 refs.
Order from OTS or SLA \$1.10

61-20143

Trans. of Zhurnal Obshchei Khimii (USSR) 1945, v. 15,
p. 587-590.

DESCRIPTORS: *Entropy, *Mixtures, Boiling, Alcohols,
Heat of formation.

On the basis of data for thermal expansion, latent heat
of evaporation and heat capacity under constant pres-
sure formulas were derived for the determination of
the change of entropy accompanying formation of each
of the following azeotropic mixtures: (1) benzene-iso-
butyl alcohol; (2) carbon disulfide-acetone; (3) carbon
disulfide-isopropyl alcohol; (4) carbon disulfide-ethyl
acetate. The numerical value of the change of entropy
(Chemistry--Organic, TT, v. 7, no. 8) (over)

61-20143

I. Zhdanov, A. K.

201427

Office of Technical Services

Catalytic Hydrogenation. I. Kinetic Equation of Hydrogenation and Dehydrogenation Over Nickel Catalyst, by A. A. Balandin, 25 pp.

RUSSIAN, no per, Zhur Obshch Khim, Vol XV, No 7/8, 1945, pp 608-618.

Sci Trans Center
RT-2588

Scientific - Chemistry
OTS 75/Dec 55

29, 219

Tsukervanik, I. P.
CONDENSATION OF ALCOHOLS WITH AROMATIC
COMPOUNDS IN THE PRESENCE OF ALUMINUM
CHLORIDE. XL MECHANISM OF ALKYLATION OF
AROMATIC HYDROCARBONS WITH ALCOHOLS.
[1961] 6p. 7 refs.
Order from OTS or SLA \$1.10 61-20141

Trans. of Zhurnal Obshchei Khimii (USSR) 1945,
v. 15, p. 635-638.

DESCRIPTORS: *Alcohols, *Condensation reactions,
Aluminum compounds, *Chlorides, *Alkyl radicals,
*Hydrocarbons.

Decomposition of products of interaction of alcohols
with aluminum chloride was investigated at tempera-
tures above 100°. Contrary to the data of Norris and
Sturgis (J. Am. Chem. Soc. 61: 1413, 1939), high
(Chemistry--Organic, TT, v. 7, no. 9) (over)

61-20141

I. Tsukervanik, I. P.
II. Title: Mechanism. . .

Office of Technical Services

Pigulevskii, G. V. and Ryskal'chuk, A. T.
INVESTIGATION OF TURPENTINE FROM PINUS
SYLVESTRIS BY THE RAMAN SPECTRA METHOD.
[1961] 6p. 15 refs.
Order from OTS or SLA \$1.10

62-10864

[Condensed] trans. of Zhurnal Obshchei Khimii (USSR)
1945, v. 15, no. 7/8, p. 678-683.

DESCRIPTORS: *Turpentine, *Raman spectroscopy,
Fractionation, Spectrographic analysis, Pine.

(Chemistry--Organic, TT, v. 7, no. 11)

62-10864

I. Pigulevskii, G. V.
II. Ryskal'chuk, A. T.

Office of Technical Services

Petrov, A. A.
ORDER OF ADDITION OF HYDROGEN HALIDES
TO ORGANIC OXIDES IN AQUEOUS MEDIUM.
[1961] 3p. 12 refs.
Order from OTS or SLA \$1. 10

62-10865

62-10865

I. Petrov, .

[Condensed] trans. of Zhurnal Obshchei Khimii
(USSR) 1945, v. 15, no. 7/8, p. 690-698.

DESCRIPTORS: *Organic compounds, *Oxides,
*Hydrogen compounds, *Halides, Addition reactions,
Butenes, Propenes, Alcohols, Chlorides, Hypo-
chlorous acid, Acids, Water, Ethers.

(Chemistry--Physical, TT, v. 7, no. 17)

Office of Technical Services

Toukervanik, I. P.
ALKYLATION OF AROMATIC COMPOUNDS IN THE
PRESENCE OF PHOSPHORIC ACID. I. CONDENSE-
MENT OF ALCOHOLS WITH AROMATIC HYDRO-
CARBONS AND WITH HALOGEN DERIVATIVES.
[1961] 6p. 14 refs.
Order from OTS or SLA \$1.10

61-20142

Trans. of Zhurnal Obshchei Khimii (USSR) 1945,
v. 15, p. 699-703.

DESCRIPTORS: *Condensation reactions, *Alcohols,
*Hydrocarbons, *Halogens, Phosphoric acids, Alkyl
radicals, Chemical reactions, Reagents.

It was established that phosphoric acid can be used for
alkylation of aromatic hydrocarbons and aromatic
halogen derivatives with alcohols. Under optimal re-
action conditions yields of up to 80-90 per cent theor.
(Chemistry-Physical, TT, v. 7, no. 8) (over)

61-20142

I. Toukervanik, I. P.
II. Title: Condensation . . .

201426

Office of Technical Services

Yatlov, V. S. and Polyakova, E. M.
EQUILIBRIUM IN THE SYSTEMS $\text{NH}_4\text{F}\cdot\text{H}_2\text{O}$ AND
 $\text{NH}_4\text{HF}_2\cdot\text{H}_2\text{O}$. [1963] [9]p. 5 refs.
Order from OTS or SLA \$1.10

63-16069

Trans. of [Zhurnal Obshchei Khimii] (USSR) 1945,
v. 15, p. 724-728.

DESCRIPTORS: *Ammonium compounds, *Fluorides,
*Water, Phase studies, Thermodynamics, Physical
properties.

The equilibrium between the liquid and the solid phase
in the systems $\text{NH}_4\text{F}\cdot\text{H}_2\text{O}$ and $\text{NH}_4\text{HF}_2\cdot\text{H}_2\text{O}$ was
studied. It has been found that NH_4F forms at -16.8°
a hydrate having the composition $\text{NH}_4\text{F}\cdot\text{H}_2\text{O}$. In the
system $\text{NH}_4\text{HF}_2\cdot\text{H}_2\text{O}$ the existence of only two solid
phases has been observed of ice and of the anhydrous
(Chemistry--Physical, TT, v. 10, no. 7) (over)

63-16069

I. Yatlov, V. S.
II. Polyakova, E. M.

Office of Technical Services

Nikolaeva, A. F., Tatevskii, V. M. and Frost, A. V.
CATALYTIC [ACTION] OF [ACTIVE] ALUMINOSILICATES, IV. CONVERSION OF CYCLOHEXENE OVER ACTIVATED CLAY. [1961] 4p. 7 refs.
Order from OTS or SLA \$1.10 61-20146

Trans. of Zhurnal Obshchei Khimii (USSR) 1945. v. 15, p. 796-798.

DESCRIPTORS: Aluminum compounds, Silicates, Catalysts, *Cyclohexenes, *Clays, Chemical reactions, Hydrocarbons, Catalysis.

It was established that the action of aluminosilicates on cyclohexene differs in its mechanism from the action of metals, which bring about an irreversible catalytic conversion, as described by N. D. Zelinski. The absence of benzene in the light fractions of the (Chemistry--Organic, TT, v. 7, no. 2) (over)

61-20146

I. Nikolaeva, A. F.
II. Tatevskii, V. M.
III. Frost, A. V.
IV. Title: Conversion . . .

Office of Technical Services

Petrov, A. D., Krutov, K. M., and Khrenov, I. M.
SYNTHESIS AND PROPERTIES OF ETHYLPROPYL-
CYCLOHEXYLMETHANE AND ISOPROPYLHEXYL-
CYCLOHEXYLMETHANE. [1961] 3p. 7 refs.
Order from OTS or SLA \$1.10

61-20147

Trans. of Zhurnal Obshchei Khimii (USSR) 1945,
v. 15, p. 799-801.

DESCRIPTORS: Synthesis, *Methanes, Antiknock,
Octanes, Petroleum, Hydrogenation, Ethylenes,
Cyclohexanes, Molecular structure, Alcohols, *Fuels,
*Aviation fuels, Ethyl radicals, Propyl radicals,
Hexyl radicals.

Ethylpropylcyclohexylmethane and isopropylhexyl-
cyclohexylmethane, not previously reported in the
literature, were synthesized. The pour points of these
hydrocarbons and their antiknock properties expressed
in cetane numbers were determined. (Author)
(Materials--Fuels, TT, v. 7, no. 1)

61-20147

I. Petrov, A. D.
II. Krutov, K. M.
III. Khrenov, I. M.

Office of Technical Services

Tambovtseva, V. and Tsukervanik, I.
ALKYLATION OF AROMATIC COMPOUNDS IN THE
PRESENCE OF PHOSPHORIC ACID. II. ALKYLATION
OF PHENOL AND ANISOLE BY ALCOHOLS. [1961]
6p. 3 refs.

Order from OTS or SLA 51.10

61-20148

Trans. of Zhurnal Obshchei Khimii (USSR) 1945,
v. 15, p. 820-824.

DESCRIPTORS: *Alcohols, *Condensation reactions,
*Hydrocarbons, *Halogens.

Phenol and anisole are alkylated by alcohols in the
presence of phosphoric acid, forming alkylated de-
rivatives in yields of about 80 per cent, in some cases
up to 95 per cent theor. The alkyl phenols or alkyl
anisoles formed are predominantly p-isomers. In
some cases o-isomers are formed in small amounts.
(Chemistry--Organic, TT, v. 7, no. 9) (over)

61-20148

I. Tambovtseva, V.
II. Tsukervanik, I.
III. Title: Alkylation ...

Office of Technical Services

Zhdanov, A. K.
HEAT CAPACITIES OF SOME PURE LIQUIDS AND
AZEOTROPIC MIXTURES. [1961] [7] p. 3 refs.
Order from OTS or SLA \$1.10 61-20149

Trans. of Zhurnal Obshchei Khimii (USSR) 1945,
v. 15, p. 895-901.

DESCRIPTORS: *Alcohols, *Acetates, *Ethyl
radicals, *Carbon compounds, *Sulfides, Liquids,
Mixtures, Thermodynamics, Tables.

Heat capacities under constant pressure were deter-
mined of isopropyl alcohol, isoamyl alcohol, ethyl
acetate, carbon disulfide and the following azeotropic
mixtures: (1) benzene-isopropyl alcohol, (2) benzene-
isobutyl alcohol, (3) carbon disulfide-acetone, (4)
carbon disulfide-methyl ethyl ketone, (5) carbon
disulfide-isopropyl alcohol, (6) carbon disulfide-
(Physics--Thermodynamics, TT, v. 7, no. 8) (over)

61-20149

1. Title: Azeotropes
I. Zhdanov, A. K.

201428

Office of Technical Services

Physicochemical Investigation of the Systems Indium
Chloride-Chlorides of Other Metals, by A. P.
Vovkoyan, Ia. A. Ryalkov, 10 pp.

RUSSIAN, per, Zhur Obsh Khim, Vol. XV, No 11-12,
1945, pp 903 - ~~904~~ 907038

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Sci - Chem
Apr 62

189,960

Korshak, V. V. and Zamyatina, V. A.
POLYVINYL DERIVATIVES. II. POLYVINYL
BUTYL ETHER. [1961] 4p. 11 refs.
Order from OTS or SIA \$1.10 61-20112

Condensed trans. of Zhurnal Obshchei Khimii
(USSR) 1945, v. 15, p. 947-951.

DESCRIPTORS: *Vinyl radicals, *Polymers, *Butyl
radicals, *Ethers, Polymerization, Catalysts.

The polymerization was studied of normal butyl
vinyl ether in the presence or absence of sulfur
dioxide, as influenced by the following catalysts:
iodine, stannous chloride, stannic chloride, alumi-
num chloride, ferric chloride and boron fluoride.
The reaction temperature was varied from -55 to
60°. The polymers obtained were viscous, very
tacky liquids, insoluble in alcohol or water, but
(Chemistry--Organic, TT, v. 7, no. 8) (over)

61-20112

I. Korshak, V. V.
II. Zamyatina, V. A.
III. Title: Polyvinyl Butyl. . .

201421

Office of Technical Services

Petrov, A. A. and Sopov, N. P.
RESEARCH OF CONJUGATED SYSTEMS. XXVI.
SYNTHESIS AND PROPERTIES OF 1-CHLORO-1,
3-BUTADIENE. [1961] 8p. 21 refs.
Order from OTS or SLA \$1.10

61-20150

Trans. of Zhurnal Obshchei Khimii (USSR) 1945, v. 15,
p. 981-987.

DESCRIPTORS: *Chloroprenes, Synthesis, *Alkoxy
radicals, Dienes, *Bromine, *Halogens, *Anhydrides,
*Sodium compounds, *Hydroxides, *Potassium com-
pounds, Chemical reactions, Butadienes.

1-Chloro-1, 3-butadiene was prepared in pure state
for the first time by the action of caustic potash on
1, 4-dichloro-2-butene. The reaction of 1-chloro-1,
3-butadiene to bromine, alkyl hypodites and maleic
anhydride and its tendency toward spontaneous and
(Chemistry--Organic, TT, v. 7, no. 8) (over)

61-20150

I. Petrov, A. A.
II. Sopov, N. P.
III. Title: Synthesis ...

201429

Office of Technical Services

Esafov, V. I.

HALOGENATION OF UNSATURATED HYDROCARBONS, IV. [1961] 7p. 12 refs.
Order from OTS or SLA \$1.10

61-20152

Trans. of Zhurnal Obshchei Khimii (USSR) 1945,
v. 15, p. 1001-1006.

DESCRIPTORS: *Halogenation, *Hydrocarbons,
Gasoline, Chemical reactions, Chemical bonds,
Ethylenes, Processing.

The McIlhenny method for determination of iodine numbers is recommended for detection of groups with quaternary carbon atoms at the double bonds of olefinic and diene hydrocarbons. The content of unsaturated hydrocarbons with quaternary carbon atoms at the double bonds in gasolines produced by liquid phase cracking increases with rise of the boiling range of the gasoline fraction. An interpretation is offered of the (Chemistry--Organic, TT, v. 7, no. 7) (over)

61-20152

I. Esafov, V. I.

Office of Technical Services

Investigation of the Alkaloids of Girgensohnia
appositiflora (Pall.) Fenzl. (Fam. Chenopodiaceae),
by N. K. Yurashevskiy, N. L. Stepanova.
RUSSIAN, per, Zh Obshch Khim, Vol 16, No 1, 1946,
pp 141-144.
ATS ILJ-5066

Sci-Chem
July 69

385,477