

Zalkind, Yu. S. and Belikova, M. V.
DE STRUCTUUR VAN ENIGE DIPHENYL-POLYCHLO-
RIDEN. (Structure of several polychloro derivatives of
biphenyl) tr. by J. H. van Santen. 5p; 5 refs. MTWL:
714. (Text in Dutch).
Order from OIS or ETC \$1.40.

61-17317

Trans. of ~~Zhurnal Obshchei Khimii~~ (USSR) 1938, v. 8,
no. 18, p. 1913-1921.

DESCRIPTORS: Phenyl radicals, *Chlorine compounds,
Structures.

61-17317

- I. Zalkind, Yu. S.
- II. Belikova, M. V.
- III. MTWL-714
- IV. Stichting Moeilijk
Toegankelijke Wetenschap
pelijke Literatuur

Office of Technical Services

The Importance of the Cation and the Anion in the
Processes of Solvation and of Solution in Liquid
Ammonia, by B. B. Vasil'ev, M. A. Portnov, A. M.
Zuravlev, 7 pp.

RUSSIAN, per, Zhur Obshch Khim, Vol IX, 1939, pp
65-68.

SLA R-2829

Sci

Jul 59

92,442

The Action of Nitrous Acid on α -Substituted
Butyrolactones, by V. V. Feofilaktov, A. S.
Onishchenko, 20 pp.

RUSSIAN, no par, Zhur Obshch Khim, Vol. IX,
No 4, 1939, pp 308-313.

Sci Tr Center
RT-3936

39,172

Sci - Chemistry
Sep 56 CFB/dax

The Action of Phenyl Diazonium Chloride on
α-Substituted Butyrolactones. II, by V. V.
Pechilakov, A. S. Onishchenko, 22 pp.

RUSSIAN, no per, Zhur Chukhch Khim, Vol IX, No 4,
1939, pp 311-324.

Sol Tr Center
RT-3937

39,154

Col - Chemistry
Sep 56 CTE/dax

Equilibrium in the System Urea-Ammonium Nitrate-
Water, by V. A. Sokolov, 7 pp.

RUSSIAN, per, Zhur Obshchei Khim, Vol IX, No 8,
1939, pp 735-750

Assoc Tech Serv-RJ 653

Sci
Apr 59

84,903

On Acids and Bases, by M. Usanovich, 29 pp.

RUSSIAN, per, Zhur Obshch Khim, No 9,
1939, pp 182-192.

23,560

AEC Tr No 2111

Scientific - Chemistry

May 55 CTB

Shemyakin, M. M.
ONDERZOEK OP HET GEBIED VAN ALDEHYDEZU-
REN EN ALDOENOLLACTONEN. II. SYNTHESE VAN
 α -OXY- β -PHENYL- γ -ALDOENOLLACTON (3 OXY-
4 PHENYL-FURAN-2(1H)-ONE) (Aldehyde Acids and Aldoe-
nol Lactones. II. The Synthesis of α -hydroxy- β phenyl-
 γ -aldo-enol Lactone (3-hydroxy-4-phenylfuran-2one)).
7p. 5 refs. MTWL: 138. (text in Dutch).
Order from OTS or ETC \$1.55

61-17723

Trans. of Zhurnal Obshchei Khimii (USSR) 1939,
v. 9; p. 484-487.

DESCRIPTORS: Aldehydes, Acids, *Lactones,
Synthesis.

61-17723

I. Shemyakin, M. M.
II. MTWL-138
III. Stichting Moelijk
Toegankelijke Wetenschap-
pelijke Literatuur

Office of Technical Services

Oxidation of Phosphorus on Solid Surfaces, by T. A.
Kryukova, 19 pp.

RUSSIAN, per, Zhur Obshch Khim, Vol IX, 1939, pp
577-586.

SLA R-3353

Sci

Aug 59

93,541

The System $K_2O-N_2O_2-H_2O$ Solubility Isotherm, by
D. A. Epstein, Z. N. Kostarina, + pp.

RUSSIAN, per, Zhur Obshch Khim, Vol IX, No 7,
pp 625-627, 1939.

SIA 57-1576

Jul 58

69, 961

SOKOLOV, V. A.
1939. The equilibrium in the system urea-ammonium
nitrate-water. Zhur. Obshchei Khim, 9, p.753-8, 1939.
(7p.)

MLL m. 3494

SLA

The Equilibrium of the System $\text{NO}-\text{NO}_2-\text{HNO}_3-\text{H}_2\text{O}$ at
 0° , by D. M. Epstein, 2 pp,

RUSSIAN, per, Zhur Obshch Khim, Vol IX, No 1939,
pp 792-793

Sci Ma Lib No 54/3382

22,574

Scientific - Chemistry Apr55 CRB

Blyumberg, Ya. B. and Zdanovskii, A. B.
SOLUBILITY IN THE SYSTEM $(\text{NH}_4)_2\text{SO}_4 + 2\text{HCl} =$
 $\text{H}_2\text{SO}_4 + 2\text{NH}_4\text{Cl}$ at 25° , [1963] 9p. 6 refs.
Order from OTS or SLA \$1.10 63-18045

Trans. of Zhurnal Obshchego Khimii (USSR) 1939, v. 9,
no. 9, p. 814-815.

DESCRIPTORS: *Phase studies, *Ammonium compounds,
Sulfates, Chlorides, Hydrochloric acid, *Sulfuric acid,
Solubility.

If the partial pressure of a gas is fixed, a saturation
field in good agreement with the phase-rule can be
obtained for it. Apart from the ordinary solid phase
fields and the field of gaseous HCl, the solubility in
the system $(\text{NH}_4)_2\text{SO}_4 + 2\text{HCl} = \text{H}_2\text{SO}_4 + 2\text{NH}_4\text{Cl}$,
studied with the aid of a Le Chatelier-Yenckle diagram
at $t^\circ = 25^\circ$, also has a nonaqueous field of unsaturated
(Chemistry-Physical, TT, v. 10, no. 6) (over)

63-18045

I. Blyumberg, Ya. B.
II. Zdanovskii, A. B.

Office of Technical Services

Polymerisation Ability of Substituted Styrenes
Depending Upon Their Structure. II, by F. P.
Shorygin, N. V. Shorygina, 11 pp.

RUSSIAN, per, Zhur Obshchei Khim, Vol. IX, No 9,
1939, pp 849-854.

Sci Tr Center
RT -- 3761

Sci - Chemistry

37,63

Aug 1956

Freidlin, L. Kh. and Lebedeva, A. I.
THE INTERACTION OF SODIUMIDE WITH THE
SALTS OF ORGANIC ACIDS. [1964] 13p 31 refs
Order from C.I.S., S.L., or ETC \$1.60 TT-64-14699

Trans. of Zhurnal Obshchei Khimii, (USSR) 1939, v. 9,
p. 996-1006.

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

TT-64-14699

I. Freidlin, L. Kh.
II. Lebedeva, A. I.

Office of Technical Services

Equilibrium in the System $\text{NH}_4\text{F}-\text{BeF}_2-\text{H}_2\text{O}$ at 0° ,
by A. V. Novoselova, M. Ya. Averkova, 5 pp.
RUSSIAN, per, Zhur Obshch Khim, Vol IX, No 12, 1939,
pp 1063-1066. 9226790
AEC-ANL-Tr-116

Sci-Chem
Feb 65

273,222

Investigation of the Chemistry of Titanium
Sulphate. I, II, by B. K. Bogvalavakaya,
16 pp.

RUSSIAN, no per, Zhur Obshch Khim, Vol IX,
No 12, 1939, pp 1077-1085.

Sci Tr Center RT-2861

Scientific - Min/Metals, Chemistry
Jan 56 GTS/dex

20, 208

Tilicheev, M. D. and Shchitkov, V. K.
CRACKING OF DECALIN UNDER PRESSURE. [1962]
13p. 16 refs.

Order from OTS or SLA \$1.60

62-14610

Trans. of Zhurnal Obshchei Khimii (USSR) 1939, v. 9,
no. 12, p. 1086-1093.

DESCRIPTORS: Hydrocarbons, Naphthalenes, Decom-
position, Reaction kinetics, Coke, Production,
Pressure.

(Unannounced)

62-14610

I. Tilicheev, M. D.
II. Shchitkov, V. K.

Office of Technical Services

Gogolashvili, Sh. I.
CORRELATION OF THE NUMBER OF CARBON
ATOMS, REFRACTIVE INDEX AND SPECIFIC
GRAVITY OF HYDROCARBONS. [1962] 4p.
Order from OJS or SLA \$1.10 62-14613

Trans. of Zhurnal Obshchei Khimii (USSR) 1939, v. 9,
no. 12, p. 1101-1103.

DESCRIPTORS: Carbon, Atoms, Refractive index,
Density, Hydrocarbons, Molecular structure.

(Unannounced)

62-14613

I. Gogolashvili, Sh. I.

Office of Technical Services

Structure and Properties of High Molecular Organic
Compounds, by V. V. Razumovskiy. 8 pp.
RUSSIAN, per, Zhurnal Obshchei Khimii, Vol 9,
1939, pp 460-466.
SLA TT-61-16671

Sci/Chemistry
Jul 66

305,997

62-14152

JOURNAL OF GENERAL CHEMISTRY, 1939, VOL. 9,
NO. 13: [TABLE OF CONTENTS AND SELECTED
ABSTRACTS]. 1961(5).

Order from GPO or SLA \$1.10

62-14152

Abstract trans. of Zhurnal Obshchey Khimii (USSR)
1939, v. 9, no. 13, p. 1153-1166 and 1188-1242.
** A complete trans. of p. 1155-1157 is available from
SLA as RT-1400.

DESCRIPTORS: *Chemistry, Literature, Abstracting,
*Ethanes, Chlorides, Magnesium compounds, Bromides,
*Grignard reactions, Gallium compounds, Fluorides,
*Alkali metals, Organic compounds, *Selenium com-
pounds, Dioxides, Aldehydes, *Ketones, Organic acids,
*Oxidation-reduction reactions, Solids, *Organic sol-
vents, Halogens, *Alkenes, *Butadienes, Methyl radi-
cals, Chlorides.
(Chemistry, TT, v. 8, no. 4)

(over)

1. Title: Hydrolysis ...

Office of Technical Services

Solubility of Double Fluorides of Aluminum and
Basic Metals, by I. Tananaby, Sh. Talipov, 6 pp.

RUSSIAN, per, Zhur. Obshch. Khim, Vol IX, No 13,
1939, pp 1155-1157.

Sci Tr Center
RT-1600

Scientific - Chemistry

CTS 62-14152
TVA-3042
CTS/DEK

18,763

Acridine Derivatives of Acridins. XIII. The Ob-
taining of and Antimalarial Action of 9-Amino-
acridine Substitutes, by G. M. Chernyaev, M. B.
Kochetov, 3 pp.

RUSSIAN, per, Zhur Obshch Khim, Vol IX, No 15,
1939, pp 1435-1440.

Sci Tr Center
RR-1381

Scientific - Chemistry

CTS/DEX

18,782

Definitions of the Concepts of "Acid" and "Base", by
A. I. Shatenstein, 18 pp.

Vol 9
RUSSIAN, per, Zhur Obshch Khim, ~~№ 9~~, 1939,
pp 1603-1610.

AEC Tr 2093

Scientific - Chemistry

Mar 55 CTS/DEX

22,525

Zhurn Obshch Khim, vol 3, No 18, 1970,
pp 1666-1672

"An Adsorption Method for the Extraction of
Krypton and Xenon, Part I"

V. G. Fastovskiy

CD: A-2530.1

7662

OR 1/27/51

Handwritten mark

Chemistry of Titanium, XIV, Formation of Anatase and
Rutile in Precipitating TiO_2 , by A. V. Pamfilov, S. G.
Ivancheva, 6 pp. Ye.

RUSSIAN, per Zhur Obshch Khim, Vol XIX, No 19,
1939, pp 1739-1741.

Sci Trans Center RT-874

Scientific - Chemistry
CTS / EDEX

14,036

Specific Gravities in System $AlCl_3-NaCl$ Communication I,
A. I. Kargin, 8 pp.

RUSSIAN, no per, Zhur Obsh Khim, Vol IX, No 19, 1939
pp 1755-1758

67577-62-24741
Sci Tr. Center RT-774

11,006

Scientific - Chemistry

3-A R-2005 (K10)

K-H-3867 a.s.

Viscosity of the System $\text{AlCl}_3\text{-NaCl}$, PT. II,
by A. I. Kryagova, 10pp.
RUSSIAN, per, Zhurnal Obshchei Khimii,
Vol 9, No 19, 1939, pp 1759-1763.
K-II-2867 bb.

322,366

Sci - Chemistry
Mar 67

The Reaction of Ethylenediamine with Carbon
Disulfide. Ethylene Diisothiocyanate, by
A. Ia. Yakubovich, V. A. Klimova, UNCLASSIFIED

RUSSIAN, per. Zhur Obshch Khim, Vol 9, 1939,
pp 1777-1782.

Assoc Tech Ser, RJ-72

Price: \$11.25 (\$1.50)

Scientific - Chemistry

17,847

Viscosity of the System $AlCl_3-HaCl$. II, by A. I. Kryagova, 12 pp.

RUSSIAN, per, Zhur Obshch Khim, Vol IX, No 19, 1939, pp 1759-1759.

Sci Tr Center RT-1041

SLAR-2053

Scientific - Chemistry

16,056

Jul 54 CTS

TT-64-10764

Yakubovich, A. Ya. and Klimova, V. A.
ON THE REACTION OF ETHYLENE DIAMINE WITH
CARBON DISULFIDE AND ON ETHYLENE-DI-ISO-
THIOCYANATE [O Vzalmodelstviil Etilendiamina s
Serouglerodom to Etilenditziotsyanate]. [1964] [14p]
Srefs:

I Yakubovich, A. Ya.
II Klimova, V. A.
III ATS-RJ-72

Order from OTS, SLA, or ETC \$1.60 TT-64-10764

Trans. of [Zhurnal Obshchei Khimii] (USSR) 1939, v. 9
[no. 19] p. 1777-1782.

Other translations are available in Dutch from OTS or
ETC \$1.40 as TT-61-17714, MTWL-144, 5p; in English
from ATS as RJ-72.

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

Office of Technical Services

Mel'nikov, N. N., Sklyarenko, S. I., and
Cherkasova, E. M.

THE ELECTROCHEMICAL INTRODUCTION OF THE
THIOCYANATE INTO ORGANIC COMPOUNDS.

[1963], 7p 13refs

Order from OYS, SLA or ETC \$1.10 TT-63-20672

Trans. of Zhurnal Obshchei Khimii (USSR) 1939,
v. 9, p. 1819-1824.

DESCRIPTORS: *Thiocyanates, *Electrochemistry,
*Electrolysis, Organic compounds, Benzene.

(Chemistry--Organic, TT, v. 11, no. 2)

TT-63-20672

I. Mel'nikov, N. N.
II. Sklyarenko, S. I.
III. Cherkasova, E. M.

Office of Technical Services

Electrical Conductivity in System $AlCl_3-NaCl$, by ~~et~~
A. I. Matyagova, 13 pp.

RUSSIAN, no par, Zhur Obsh Khim, Vol IX, No 22,
1939, pp 2061-2066.

^{ch}
OTS TT-63-20749
SLA - R - 2004
Sci Tr Center RT-714

11,007

Scientific - Chemistry

K-H-2867 d.d.

Napthene-Aromatic Hydrocarbons of the Series of
Naphthalene and Tetralin With a Cyclopentyl Ring
in the Side Chain, by E.S. Pokrovskaya, R.Ya.
Sushchik. 7 pp.

RUSSIAN, per, Zhurnal Obshchei Khimii, Vol 9,
No 24, 1959, pp 2291-2301.

SLA TT-61-16857

Sci/Chemistry
Jul 66

305,996

61-16860

Lozovoi, A. V. and D'yakova, M. K.
HYDROGENATION VELOCITIES OF AROMATIC AND
UNSATURATED HYDROCARBONS, IV. [1961] 7p.

13 refs.
Order from OTS or SLA \$1.10 61-16860

Trans. of Zhurnal Obshchei Khimii (USSR) 1960, v. 10,
p. 1-10.

Another translation is available from ATS \$17.00 as
ATS-58840R [1960] 12p.

DESCRIPTORS: Hydrogenation, Hydrocarbons, Mono-
cyclic compounds

The relative velocities of hydrogenation of benzene,
naphthalene, cyclohexene, 1-methyl-1-cyclohexene,
and cyclohexadiene are reported, as well as data on the kinetic
order of hydrogenation of some of them. Benzene is
hydrogenated in the presence of nickel-aminol 150

(Chemist ---Organic, TT, v. 6, no. 7) (over)

- I. Lozovoi, A. V.
- II. D'yakova, M. K.
- III. Title: Rates of Hydrogenation of Aromatic and Unsaturated Hydrocarbons, IV

61-16860
151725

Chemical Technology

Chemistry of Titanium XV, Polymorphic Structures
of Titanium Dioxide, by A. V. Pamfilov, A. G.
Ivancheva, 8 pp.

1e.

RUSSIAN, per. Zhur Obsheh Khim, Vol X, No 3, 1940,
pp 154-157.

Sci Trans Center RT-87^g5
DSIR 224 111-1222 (LOAN)

Scientific - Chemistry
CPS/MEK

14,037

Higher-Order Transformations of Urea,
by V. A. Sokolov, 9 pp.

RUSSIAN, per, Zhur Obshch Khim, Vol X,
1940, pp 165-171.

SIA R-2187

Sci

Aug 58

72,152

Apparent Molar Volumes of Salts in Ammonia and
Water Solutions, by E. I. Akhmedov, 22 pp.

RUSSIAN, per, Zhur Obshch Khim, Vol X, 1940,
pp 233-246.

SIA R-2471

Sci
Apr 59

84,427

Zhur Obshch. Khim, X, 5-6: 497-506; 1940

Isomerization of Oxaldehydes

by A. M. Gachokidze

Trans at National Insts of Health, Bethesda, Md.

New Method of Obtaining Titanyl sulfate. III, by B. E. Boguslavskaya, O. M. Ottsmanovskaya, 8 pp.

RUSSIAN, per, *Khair Obshch Khim*, Vol X, No 8, 1940, pp 673-676

Sci Tr Center RF-3972

Sol - Chemistry

41,551

Chemistry of Titanium Sulfate. IV, by ~~XXXXXX~~
B. E. Boguslavskaja, O. M. Ottamnovskaja.

RUSSIAN, per, Zhur Obsheh Khim, Vol X, No 8,
1940, pp 677-682.

Sci Tr Center
RT-3033

Sci - Chemistry
Jan 1956/CTS No 77

30,542

atalin, A. Kh. and Shcherbakov, I. A.
THE HEAT OF REACTION OF SULFUR
MONOCHLORIDE WITH METHYL AND ETHYL
ALCOHOLS. [1961] 5p. 5 refs.

Order from OTS or SLA \$1.10

62-10014

Trans. of Zhurnal Obshchei Khimii (USSR) 1940,
v. 10, no. 8, p. 730-732.

DESCRIPTORS: *Ethanol, *Methanol, *Sulfur
compounds, *Chlorides, *Heat of reaction.

(Chemistry--Organic, TT, v. 7, no. 8)

62-10014

I. Batalin, A. Kh.
II. Shcherbakov, I. A.

201298

Office of Technical Services

Chemistry of Titanium, XVI, Conversion of Anatase
to Rutile Structure, by A. V. Panfilov, H. G.
Ivancheva, 16 pp.
1e.

RUSSIAN, per. Zhur Obshch Khim, Vol X, No 8, 1940,
PP 736-744.

Sci Trans Center RT-876
DSIR LLW M-1527 (1500)

Scientific - Chemistry
CTS/DEK

14,038

Reactions of Organic α -Oxides With Alcohols
and Carbonyl Compounds in the Presence of
~~the~~ Boron Trifluoride, by A. A. Petrov,
23 pp.

RUSSKIAN, Ser, Zhur Obshch Khim, Vol X,
No 11, 1940, pp 981-996.

SLA 60-18491

Sci
Vol IV, No 11
Jun 62

199, 243

Synthesis of Carbazi-Condensed Systems from
Alpha and Alpha'-Aminonicotines, IV. Conden-
sation of Alpha-Aminonicotine with Aceto-
Acetic Ester. by M. S. Kondakova, Ya. L. Gold-
farb, 9p.

RUSSIAN, per, Zhurnal Obschei Khimii, Vol 10
pp 1065-1068. 1940

K-H 1058 *M. S. Kondakova*

321,661

Sci - Chemistry
Mar 67

Heteropryidées, by M. G. Bystritskaya and A. F.
Kirgakov, 16 pp.

RUSSIAN, no per, Zhurnal Obshchey Khimii, Vol X,
No 12, USSR, 1940, pp 1101-1107.

CIA/TDD/X-1151

Sci Chem Dec 1953 CTS

7568

Zan'ko, A.M. and Manusova, F.A.
 ESSAI D'EMULSION POLAROGRAPHIE, DE SOLUTIONS NON-AQUEUSES (Opyt Primeneniya Nevodnykh Rastvorov v Polarografii) (Experiment of Application of Nonaqueous Solutions in Polarography). 10p. (foreign text included). Refs. CNRS-VIII bis 265. Order from OTS, ETC or CNRS SO.80 TT-62-28267

Trans. in French of Zhurnal Obshchei Khimii (USSR) 1940, v.10, no.13, p.1171-1176.

Translation in English available from OTS, SLA or ETC \$1.60 in '61-20339.

DESCRIPTORS: Polarographic analysis. Solutions. Dielectric properties. Organic solvents. Alcohols. Oxygen.

(Chemistry--Analytical, v. 11, no. 8)

TT-62-28267

- I. Zan'ko, A.M.
- II. Manusova, F.A.
- III. CNRS-VIII bis 265
- IV. Centre National de la Recherche Scientifique, Paris

Office of Technical Services
 European Translations Centre

V
REF Action of Diazobenzene on Alkylacetoacetic Esters
as a Method of Obtaining Phenylhydrazones of Ketone
Acids and Amino Acids, by V. V. Feofilaktov,
V. N. Zaytsev, 4 pp.

RUSSIAN, per, Zhur Obshch Khim, Vol X, No 15, 1940, .

REF

Sci Tr Center RT 3128

Scientific Chemistry

31,052

Feb 56

62-18218

I. Sokov, P. G.
II. Title: Reaction. . .

Sokov, P. G.
REACTION OF ALPHA-AMINOPYRIDINE WITH
BENZYL. Pt. I of Reaction of Alpha-Aminopyridine
with Diketones. [1962] [8]p. 3 refs.
Order from OTC or SIA Sl. 10

62-18214

Trans. of Zhurnal Khimicheskoi Khimii (USSR) 1940,
v. 10 [no. 10] p. 1457-1461.

DESCRIPTORS: *Pyridines, Chemical reactions,
*Ketones, *Benzils, Carboxylic acids, Azoles, Amines

When alpha-aminopyridine is heated with benzyl at a
temperature of 165-225°, alpha-aminopyridine reacts
in the tautomeric pyridonimido form. The primary
reaction product is 2,3-diphenyl-2,3-dihydroxy-2,3-
dihydropyrimidazole, which in the course of the reaction
undergoes pinacolyl rearrangement, forming 2,2-
diphenyl-3-oxo-2,3-dihydropyrimidazole. The 2,3-
diphenyl-3-oxo-2,3-dihydropyrimidazole compound for
(Chemistry-Organic, TI, v. 9, no. 5) (over)

Office of Technical Services

Polymerizing Effect of Dimethyl Sulfate on
Ethylenic Compounds. I. Polymerization of
Diphenylacetylene, by V. M. Belov, B. M. Lebedev.

RUSSIAN, per, Zhur Goshchei Khim, Vol X, No 17,
1960, pp 1543-1545.

Assoc Tech Serv RJ-1413
" " " 73K23R

Sci - Chem

Apr 59

85,297

Unsaturated Organic Silicon Compounds.
Preparation of Hexaacetylene Siloxane and
Triethoxysilylphenylacetylene, by
Yu. Vol'nov, A. Reutt.
RUSSIAN, per, Zhurnal Obshchei Khimii,
Vol X, No 17, 1940, pp 1600-1604.
SLA TT 64-30151

May 67

327,189

Acridyl-9 (omega-haloid methylketone), by G. I. Braz, E. V. Gortinskaya, 4 pp.

RUSSIAN, per, Zhur Obshch Khim, Vol X, Nos 19, 20, 1940, 1751-1756.

NIH 1-13-60
Sci Trans Center
RT-1378

Scientific - Chemistry

Dec 54 CTS/DEX

14,658

61-20394

JOURNAL OF GENERAL CHEMISTRY, 1940, VOL. 10, NO. 19/20, [TABLE OF CONTENTS] AND SELECTED ABSTRACTS. [1961] 11p. 10 refs.
Order from OTS or SLA \$1.60

I. Title: Kinetics...
II. Title: 9-ethyl-...

61-20394

Abstract trans. of Zhurnal Obshchei Khimii (USSR) 1940, v. 10, no. 19/20, p. 1784-1812.

DESCRIPTORS: *Chemistry, Abstracting, Periodicals, USSR; Hydrocarbons, Polymerization, Polycyclic compounds, Anthracenes, Synthesis, Ethyl radicals, Alcohols, Dehydration, Methyl radicals, Reaction kinetics.

Contents:

Kinetics and mechanism of thermal conversion of unsaturated hydrocarbons. VII. Kinetics of polymerization of unsaturated hydrocarbons under low pressure (Chemistry, T, v. 7, no. 1) (over)

Office of Technical Services

The Rate of Hydrogenation of Aromatic Hydrocarbons,
V. Polycyclic Aromatic Hydrocarbons, by A. V. Lunovoi,

RUSSIAN, per, Zhur Obsachei Khim, Vol X, No 21, 1960.
pp 1843-1854

ATS RJ-2096

Sci. - Chem

May 60

115,390

Investigation of Mixed Crystals, III, by M. M.
Popov, S. M. Skuratov, Z. N. Nikonova

RUSSIAN, no per, Zhur Obshch Khim, Vol X, 1940,
pp 2017-2022.

AEC Tr 2348

Scientific - Chemistry
Jan 56 CTS

29,742

Determination of Active Hydrogen by Grignard's
Reagent in an atmosphere of Carbon Dioxide,
by A. P. Terent'ev, K. D. Shcherbakov.

Full translation.

RUSSIAN, per, Zhur Obshch Khim, Vol X, 1940,
pp 2041-2046.

AEC Tr 1608

Scientific - Chemistry

Jun 53 CDS/DLK

3087

Sidorova, N. G. and Tsukervansk, L. P.
CONDENSATION D'ALCOOLS AVEC LES HYDROCARBURES AROMATIQUES EN PRESENCE DE CHLORURE D'ALUMINIUM. CONDENSATIONS DU CYCLOHEPTANOL AVEC LE BENZENE ET LE TOLUENE (Kondensatsii Spirtov s Aromatichekidni Uglevodorodam i Prisutsvii Khloristogo Aluminiya) (Condensation of Alcohols with Aromatic Hydrocarbons in Presence of Aluminium Chloride. Condensations of Cycloheptanol with Benzene and Toluene). 6p. 5 refs. FR-956. Order from OTS, ETC or CNRS \$0.80 62-26512

Trans. in French of Zhurnal Obshchei Khimii (USSR) 1940 [v. 10] no. 23-24, p. 2073-2076. An abstract trans. is available in English from OTS or SLA \$1.10 in 61-2037a [1961] 9p.

DESCRIPTORS: *Hydrocarbons, Aluminium compounds, Chlorides, Alcohols, *Benzenes, *Toluenes, Heptanes, *Condensation reactions. (Chemistry--Organic, ITT, v. 10, no. 9)

62-26512

- I. Title: Cycloheptanol
- I. Sidorova, N. G.
- II. Tsukervansk, L. P.
- III. F/R-956
- IV. Title: Condensations de...
- V. Title: Condensations of...
- VI. Centre National de la Recherche Scientifique, Paris (France)

Office of Technical Services

Spontaneous Condensation of Tetra (2-Chloroethyl)
-Ethylendiamine, by S. M. Sherlin, A. Ya. Berlin,
F. B. Rebl'kovich.

RUSSIAN, *ZHUR OBSHCH KHIM*
Journal of General Chemistry, Vol XI,
1941.

AEC 711 150

Scientific - Chemistry

14,626

Dynamics of Oxidation of Alkyl Substituted
Organic Compounds With Chromic Acid. I. Oxidation of
Oxidation of 2-methyl-anthraquinone and Its
1-nitro- and 1-chloroderivatives to 2-carbonic
Acids of Anthraquinone, by . A. Il'inskiy, V. A. Ez
Kasakova, 17 pp.

RUSSIAN, no per, Zhur Obshch Khim, Vol XI, No 1,
1941, pp 16-22.

Sci Tr Center
RT-3759

37,585

Sci - Chemistry

Aug 1956

Ultraviolet Absorption Spectra of H-phenyl Derivatives
of Pyrazolone. III., by V. E. Bliznyukov.

of 2.3-40.
RUSSIAN, per, Zhur Obshch Khim, Vol XI, No 1, 1941.

AEC Tr 212

Scientific - Chemistry

14,924

Reduction of Some Amides and Substituted Amides,
by A. V. Kojerina, M. M. Klyuchareva, 22 pp.

Full translation.

RUSSIAN, per, Zhur Obshch Khim, Vol XI, No 1,
1941, pp 51-62.

NLL 5828 4F
CIA/STD/K-994

Scientific - Chemistry

Aug 53 GTS/DEK

4578

Synthesis of Glucosido-2-Glucose, by A. M.
Gakhovskoe, 23 pp.

RUSSIAN, per: Zhur Obshch Khim, Vol XI, No 2, 1941,
pp 117-126. 9074516

NIH 1-813-61

Sci - Med
Mar 61

141,640

The Problem of Measurement of Electric Losses of
AQUEOUS SOLUTIONS of Sulfuric Acid, by K. P.
Mishchenko,

RUSSIAN, per, Zhur Obshch Khim, Vol. XI, No 2, 1943.
pp 149-155.

Sci - Chemistry

Assoc Tech Sv RJ-457

Aug 1956

\$13.40

PO Box 271, East Rutherford Orange
N. J.

36,968

The Decomposition Mechanism of Sodium Hypochlorite, by
T. E. GILMAN, H. Y. DEIN, 8 pp.

RUSSIAN, per, Zhur Obshch Khim, Vol XI, No 3, 1941,
pp 190-196.

ATS-RJ650

Sci

Aug 59

93, 587

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

RUSSIAN, no per, Zhur Obshch Khim, Vol XI, No 3,
1941, pp 209-212.

Sci Tr Center
RT-2254

Scientific - Chemistry
CIS 70/Jul 55

25,222

Solubility and Ice Area in the Ternary
Systems NaF-HF-H₂O and Na₂O-H₂F₂-H₂O, by
I. V. Tananayev, 12 pp.

RUSSIAN, per, Zhur Obshch Khim, Vol XI,
1941, pp 267-275.

SLA R-2299

Sci

Aug 58

72,210

Zh Obshch Khim Vol 11, page 285-92 (1941)

Electrical Conductivity of Argento-boric Glasses.
by B. I. Markin.

AEC Trans(avail. Brookhaven)

Petrov, A. A.
RESEARCH ON CONJUGATED SYSTEMS. XIV. CON-
DENSATION OF DIENE HYDROCARBONS WITH
METHYL VINYL KETONE: SYNTHESIS AND PROP-
ERTIES OF 1,2,3,6-TETRAHYDROACETOPHENONE
AND ITS DERIVATIVES. [1961] 6p. 48 refs.
Order from OIS or SLA 51.10 61-18039

Trans. of Zhurnal Obshchei Khimii (USSR) 1941, v. 11,
p. 309-313.

DESCRIPTORS: *Hydrocarbons, *Methyl radicals,
*Vinyl radicals, *Ketones, Condensation reactions,
*Acetophenones, Synthesis, Chemical properties.

Condensation of butadiene, isoprene, 2,3-dimethyl-
butadiene and 1,3-cyclohexadiene with methyl vinyl
ketone was investigated. Isolation and determination of
the properties of 1,2,3,6-tetrahydroacetophenone is
reported, as well as the following derivatives of it:
(Chemistry--Organic, v. 6, no. 8) (over)

61-18039

I. Petrov, A. A.
II. Title: Condensation...
III. Title: Synthesis...

185139

Office of Technical Services

Research on a Series of Heterocyclic Ketones,
by M. M. Shemyakin, E. I. Elkina.
RUSSIAN, per, Zhurnal Obshchei Khimii, Vol 11,
No 4, 1941, pp 349-352.

NRC C-5622

N.L. Ref: 8752B 1966

Sci-Chem
Aug 66

308,781

Methods of Construction of Aliphatic and Polyethylene
Hydrocarbons in Connection With Peculiarities of
Their Structure, by V. P. Gol'zov, 9 pp.

RUSSIAN, Izv. Akad. Nauk SSSR, Ser. Khim., Vol. XI, No 5/6,
1941, pp. 405-413.

SIA 59-10696

Sci - Chem
Sep 59
Vol. 2, No. 2

98,000

Chelintsev, V. V. and Pataraya, A. V.
SYNTHESIS OF HYDRATED KETONES. I. PREP-
ARATION OF HYDRATED KETOLS AND
KETOL ETHERS BY CONDENSATION WITH THE
ACTION OF MAGNESIUM-SUBSTITUTED AMINES.

Order from SLA 44-10 61-18105

Translation of Zhurnal Khimicheskoi Fiziki (USSR) 1941, v. 11,
no. 10, p. 1711-1713

Keywords: Ketones; Ketols; Synthesis; Con-
densation reactions; Amines; Magnesium compounds;
Molecules; Condensation

Isomers of ketols with different positions of the hydroxy
group are prepared by dividing the reaction of for-
mation of ketols under the action of magnesium-
substituted amines into two phases and changing the
order of introduction of the ketones to the reaction mix-

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

61-18105

- I. Chelintsev, V. V.
- II. Pataraya, A. V.
- III. Title: Preparation...

181171

Office of Technical Services

Shvartsman, A. G.
GLUCOSIDE FROM LEAVES OF RHODODENDRON
FLAVUM DON. tr. by Zelda D. Knowles. 3 Nov 52,
10p. 15 refs.
Order from OTS or SLA \$1.10

61-28099

Trans. of Zhurnal Obshchei Khimii (USSR) 1941,
v. 11, no. 5/6, p. 467-470.

DESCRIPTORS: *Glucosides, *Quercetin, Sources.

From the leaves of *Rhododendron flavum* was isolated
 $C_{21}H_{20}O_{12}$, which belongs to the flavone group. A
study of glucoside revealed that it is quercetin-3-glu-
coside. (Author)

(Chemistry--Organic, IT, v. 7, no. 2)

61-28099

- 1. Title: Rhododendron
- I. Shvartsman, A. G.
- II. National Institutes of Health, Bethesda, Md.

Office of Technical Services

Zhdanov, A. K.
HEAT CAPACITIES OF SOME PURE LIQUIDS AND
AZEOTROPIC MIXTURES. [1961] 7p. 5 refs.
Order from OTS or SLA \$1.10 61-16876

Trans. of Zhurnal Obshchey Khimii (USSR) 1941, v. 11,
no. 7, p. 471-482.

DESCRIPTORS: Mixtures, Liquids, Boiling,
Thermochemistry, Thermodynamics.

The heat capacities under constant pressure (c_p) at approximate temperatures of 0°, 25° and 45° were determined for carbon tetrachloride, n-propyl alcohol, benzene, isobutyl alcohol, toluene and the following azeotropic mixtures: (1) benzene-methyl ethyl ketone; (2) toluene-isoamyl alcohol; (3) benzene-n-propyl alcohol; (4) carbon tetrachloride-n-propyl alcohol; (5) carbon tetrachloride-isobutyl alcohol; (6) toluene-n-propyl alcohol; (7) carbon tetrachloride-isobutyl alcohol. (Physics-Thermodynamics, TT. v. 6, no. 9) (over)

61-16876

I. Zhdanov, A. K.

205400

Office of Technical Services

61-16878

I. Zhdanov, A. K.

Zhdanov, A. K.
INCREASE OF ENTROPY IN FORMATION OF
AZEOTROPIC MIXTURES. [1961] 5p. 9 refs.
Order from OTS or SLA \$1.10 61-16878

Trans. of Zhurnal Obshchei Khimii (USSR) 1941, v. 11,
no. 7, p. 483-492.

DESCRIPTORS: *Entropy, *Mixtures, Boiling,
Alcohols.

176501

Office of Technical Services

(Chemistry--Physical, IT, v. 6, no. 6)

61-20373

JOURNAL OF GENERAL CHEMISTRY, 1941, VOL. 11,
NO. 7: [TABLE OF CONTENTS] AND SELECTED
ABSTRACTS. [1961] Sp. 16 refs.
Order from CTS or SLA \$1.10

61-20373

Abstract trans. of Zhurnal Obshchei Khimii (USSR)
1941, v. 11, no. 7, p. 523-526, 533-536, 567-572.

DESCRIPTORS: Synthesis, Chemistry, Chemical re-
actions, Abstracting, *Hydrocarbons, *Carbon com-
pounds, *Oxides, *Ethylenes, *Methanes, Ketones,
*Butadienes, Hydrogen compounds, *Bromides,
*Magnesium compounds, Halides, *Acetals, *Chro-
mium compounds, Phenyl radicals, *Butenes,
*Molecular isomerism, Isomeric transitions, Methyl
radicals, Alkyl radicals.

Contents:

Synthesis of isoolefins and isoparaffins with a
(Chemistry--Organic, TT, v. 7, no. 1) (over)

- I. Title: Isoparaffins
- I. Title: Reaction...
- II. Title: Isomerization...

Office of Technical Services

61-16880

Levina, R. Ya. and Shekhtova, N. A.
ISOMERIZATION OF UNSATURATED HYDRO-
CARBONS IN CONTACT WITH METAL OXIDES.
V. ISOMERIZATION OF 4-PHENYL-1-BUTENE
AND 5-PHENYL-1-PENTENE OVER OXIDES OF
ALUMINUM AND CHROMIUM [1961] 5p. 22 refs.
Order from OTS or SLA \$1.10 61-16880

- I. Levina, R. Ya.
- II. Shekhtova, N. A.
- III. Title: Isomerization of 4-Phenyl...

Condensed trans. of Zhurnal Obshchei Khimii (USSR)
1961, v. 31, no. 7, p. 527-532.

101730

DESCRIPTORS: Hydrocarbons, *Molecular isomer-
ism, *Ethenes, *Pentenes, Phenyl radicals, Aluminum
compounds, Chromium compounds, Oxides, Mono-
cyclic compounds.

An experimental study is reported showing that 4-
phenyl-1-butene is isomerized in contact with aluminum
oxide or chromium oxide at 250° to 4-phenyl-3-butene;
5-phenyl-1-pentene is isomerized in contact with chro-
(Continued on Original, TID v. 6, no. 7) (over)

Office of Technical Services

Table of contents and selected
abstracts.

Zhur Abshch Khim, Vol 11, No 7,
1941, pp 567-572.

SLA 61-20373

see pp 567-572

Table of contents and selected
abstracts.

Zhur Abshch Khim, Vol 11, No 7,
1941, pp 533-536

SLA 61-20373

see pp 533-536

61-18071

Platonov, M. S.
RESEARCH ON CATALYTIC PROPERTIES OF
RHENIUM IN DEHYDROGENATION OF ALCOHOLS
OVER RHENIUM DISELFIDE. [1961] 4p. 23 refs.
Orig. from OIS or CIA 51-10

I. Platonov, M. S.
II. Title: Dehydrogenation...

61-18071

Tranz. of Zhurnal Obshchei Khimii (USSR) 1941 [v. 11]
p. 683-685.

DEHYDROGENATION OF ALCOHOLS. Dehydrogenation. *Rhenium
compounds. *Sulfides. Catalysis.

Rhenium disulfide is an excellent catalyst for dehydrogenation of alcohols. It gives high yields of formaldehyde, acetaldehyde and acetone when the corresponding alcohols are passed over a small layer of this catalyst. Side reactions (hydration, decomposition of aldehydes to acetone) are almost absent. The exit gases contain very little carbon monoxide and unsaturated hydrocarbons. Rhenium disulfide apparently is not the best catalyst for catalytic hydrogenation of carbon
(Chem. Abstr.--Organic, TT, v. 6, no. 7) (over)

1 2 2 . 1 2

Office of Technical Services

Zhur Zhukel Khim

Vol 11, pp 707-12 (1941)

The Action of Ethylorthoformate on Diacetyl-
and Acetyl-acetone

L. N. Sarventier and
A. M. Muzaev

Done by Sci Mus Lib
Sci Lib - # 00/1884

The Order of Addition of Hydrogen Halides to Halogen-
substituted ~~ether~~-oxides, by A. A. Petrov, 17 pp.

RUSSIAN, per, Zhur. Obshchei Khimii, Vol XI, No 9,
1941, pp 713-721.

Sci Tr Center RT-2497

USSR
Scientific - Chemistry

28, 272

Nov 55
CTS/DEX

Bryusova, L. Ya. and Ioffe, M. L.
SYNTHESIS OF EUGENOL. [1961] 7p. 12 refs.
Order from OTS or SLA \$1 10 61-18084

61-18084

I. Bryusova, L. Ya.
II. Ioffe, M. L.

Trans. of Zhurnal Obshchei Khimii (USSR) 1941, v. 11,
no. 9, p. 722-728

DESCRIPTORS: *Eugenol, Synthesis, Boron compounds,
Fluorides, Acetic acids.

185134

A method of synthesis of eugenol was developed giving up to 38% yields. In isomerization of the allyl ether of guaiacol, the allyl radical was shown to be able to pass into the p-position, even if a free o-position is available, when the ether is acted upon by boron fluoride or its molecular compound with acetic acid. The synthesis consists in isomerization of the allyl ether of guaiacol under the action of either boron fluoride or the molecular compound of boron fluoride with acetic acid. Guaiacol is a by-product of the rearrangement. In addition (Chemistry-Physical, TT, v. 6, no. 8) (over)

Office of Technical Services

JOURNAL OF GENERAL CHEMISTRY, 1941, VOL. 11, NO. 9: [TABLE OF CONTENTS] AND SELECTED ABSTRACTS. [1961] 5p. 10 refs.
Order from OTS or SLA \$1.10

61-20371

Abstract trans. of Journal Obshchei Khimii (USSR) 1941, v. 11, no. 9, p. #683-685, 707-712, 745-756.
#A complete trans. is available from OTS or SLA \$1.10 as 61-18071 [1961] 3p.

DESCRIPTORS: *Alcohols, Dehydrogenation, *Rhenium compounds, Chemistry, Abstracting, *Sulfides, *Catalysts, Esters, Acetyl radicals, Acetones, *Methyl radicals, Sulfites, Stilbenes, Chemical reactions, *Alkyl radicals, Phenols, Phenyl radicals, Amines.

(Chemistry, JT, v. 7, no. 6)

(over)

61-20371

- I. Title: Dehydrogenation ...
- II. Title: Dimerization ...
- III. Title: Interaction ...

Office of Technical Services

Glagoleva, A. A.
EQUILIBRIUM OF THE SYSTEM FORMIC ACID-
WATER. [1960] pp. 26 refs. TL 1234; M2139
Order from LC or SLA m/\$1.80, pb/\$1.80 61-13634

Trans. *Zhurnal Obshchey Khimii* (USSR) 1941,
v. 11, no. 10, p. 765-767.

The phase diagram of the formic acid-water system
has two characteristic maxima, corresponding to
1 g-mole water to 1 g-mole acid and 2 g-mole water to
1 g-mole acid. Three regions of eutectic crystalliza-
tion are apparent on the phase diagram. Formic acid
forms two stable systems with water in solution:
 $\text{HCOOH} \cdot \text{H}_2\text{O}$ and $\text{HCOOH} \cdot 2\text{H}_2\text{O}$. (Author)

(Chemistry--Physical. TT, v. 5, no. 3)

61-13634

I. Formic acid--Solubility
I. Glagoleva, A. A.
II. Trans-TL 1234
III. DSIR 1.11 M. 2139

142,958

Office of Technical Services

Effect of the Penetrating Ray of Radium on the
Colloidal - Chemical Properties of Gelatin Sols, by
A. M. Khenokh, 38 pp.

RUSSIAN, no per, Zhur Obshch Khim, # No 11, 1941,
pp 776 - 786.

QOHS Tr
QAT-269

Sci - Chem

Jan 52 CTS

Turova-Polyak, M. B. and Sidel'kovskaya, F. P.
ISOMERIZATION OF POLYMETHYLENE HYDRO-
CARBONS UNDER THE ACTION OF ALUMINUM
CHLORIDE. VII. ISOMERIZATION OF CYCLO-
HEPTANE [1961] 5p. 15 refs.
Order from OTS or SLA \$1.10

61-18017

Trans. of Zhurnal Obshchei Khimii (USSR) 1941, v. 11,
[no. 10] p. 817-820.

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

Isomerization of cycloheptane under the action of alumi-
num chloride was investigated. It was established that
aluminum chloride isomerizes cycloheptane to methyl-
cyclohexane to the extent of 97-98%; thus, isomeri-
zation of a seven-member naphthene into a six-member
naphthene was accomplished. (Author)
(Chemistry--Organic, TT, v. 6, no. 7)

61-18017

- I. Turova-Polyak, M. B.
- II. Sidel'kovskaya, F. P.
- III. Title: Isomerization
of Cycloheptane

121777

Office of Technical Services