

TT-64-10518

Koganovskii, A. M. and Taran, P. N.
OXIDATION OF AQUEOUS SULFITE SOLUTIONS IN
AERATION (Oksidatsiia Vodykh Rastvorov Sul'fita pri
Aeratsii). [1963] [14p] (refs omitted)
Order from OTS, SLA, or ETC \$1.60 TT-64-10518

I. Koganovskii, A. M.
II. Taran, P. N.

Trans. of Ukrain[skii] Khim[icheski] Zhurnal (USSR)
1955, v. 21 [no. 4] p. 472-479. (Abstract available)

DESCRIPTORS: *Wastes (Industrial), Dyes, *Sulfites,
*Oxidation, Reaction kinetics, *Catalysts, *Manganese
compounds, Dioxides, pH,

A study was made of the kinetics of the oxidation of
dilute sulfite solutions on bubbling air through at pH 3-9
range both in the absence of foreign admixtures and in
the presence of a number of substances characteristic of
industrial discharge waters in the aniline dye industry
(sulfite, thiosulfate, sodium tetrathionate, phenol,
(Chemistry--Inorganic, TT, v. 11, no. 9) (over)

Office of Technical Services

CEA-tr-R-1453 Uncl.

LA CONDUCTIBILITE ÉLECTRIQUE DES OXYDES ET
LEUR APTITUDE AU MOUILLAGE PAR DES METAUX
LIQUIDES. (The Electric Conductivity of Oxides
and their Aptitude to Wetting by Liquid Metals).
V. N. Eremenko and Yu. (W.) V. Naidich
(Naiditch). Translated into French from
Ukrain. Khim. Zhur., 23: 573-8(1957).
20p. (Includes original, 4p.).

Ceramics; Metallurgy; Translations MC-25

C-25 NP NSA Dep.(mc); \$1.60(fs), \$0.80(mf)
JCL or OTS .

N-5

Thermodynamic Functions of Nitrogen Dioxide, by
V. P. Morozov, 2 pp.

RUSSIAN, per, Ukrain Khim Zhur, Vol XXI, No 5, 1955,
pp 554, 555.

AT6-RJ652

Sci

Aug 59

Determination of Decomposition Potentials of Molten
Fluorides of Alkaline and Alkaline Earth Metals,
by Yu. K. Delimarskiy, F. F. Grigorenko, 17 pp.

UKRAINIAN
RUSSIAN, per, Ukrain Khim Zhur, Vol. XII, No. 5, 1955, pp 561-568.

912,61 Assoc Tech Ser 175-174
AEC Tr 2538

Sci - Chemistry
Aug 1956 CFS/dex

37, 487

The Theory of the Kolbe-Schmitt Synthesis. FP. II.
Importance of Disubstituted Salts in the Mechanism
of Carboxylation, by E. A. Shilov, I. V. Smolnov-
Zemkov, and K. I. Matkovskiy, 16 pp.

UKRAINEAN, per, Ukrain Khim Zhur (USSR), Vol XII,
1955, pp 600-613.

Assoc Tech Serv
49027B

Sci - Chem
May 59
OSB, V. I, No 6

86,320

Electrochemical Separation of Binary Alloys of
Pb With Bi, Sb, As and Sn in Molten Electrolytes,
by YU. K. Delimarskiy, P. P. Turov, B. B. Hitzman,
17 pp.

UKRAINIAN
~~USSR~~, per, Ukrain Khim Zhur, Vol XII, 1955,
pp 687-693.

ABC Tr 2539

Sci - Chemistry; Physics
Aug 1956 CTS/acc

37,488

Thermodynamic Properties of Solutions of Molten
Salts, by B. F. Markov, 12 pp.

VERIFIED
RUSSIAN, per, Ukrain Khim Zhur, Vol XXI, 1955,
pp 703-709.

AEC Tr 2643

RT 4659

Sci - Physics

40,182

Acyl Derivatives of 2-Aminomethylbenzthiazole,
by A. I. Kiprianov, E. D. Smaznaya-Ilyna,
G. G. Dyadyusha, 11 pp.

RUSSIAN, per, Ukrain Khim Zhur, Vol XXI, 1955,
pp 726-731.

Sci Mus Lib No 56/2447

Sci - Chemistry

42, 846

S-116/60

(DC-3608).

On the Mechanics of H_2 Hydrogen Exchange in
Solutions, by A. I. Shatenshteyn, 11 pp.

UKRAINIAN, per, Ukrain Khim Zhur, Vol XXII,
No 1, 1956, pp 3-10.

JPRS 3332

Sci - Chem
Jun 60

117,285

S-87/60

(NY-3559).

Hydrogen Exchange in Solutions, by A. I. Brodskiy,
11 pp.

UKRAINIAN, per, Ukrain Khim Zhur, Vol XXII, No 1,
1956, pp 11-13.

JPRS 2496

Sci - Chem
Apr 60

115,357

On the Theory of Electronic Processes in Metal-
Ammonia Solutions, by M. F. Deigen, Yu. A. Tsvirbo.
41 pp.

UKRAINIAN
RUSSIAN, per, Ukrain Khim Zhur, Vol I, 1956,
pp 245-259.

AEC Tr-4260

Sci - Chem
Jun 61

156,078

S-116/60

(DC-3608).

On the Kinetic Methods of Studying Hydrogen
Exchange, by S. Z. Roginskiy, 14 pp.

UKRAINIAN, per, Ukrain Khim Zhur, Vol XXII,
No 1, 1956, pp 24-33.

JFRS 3333

Sci - Chem
Jun 60

117,284

The Process of Autoadsorption. Part I. The Surface
Tension of Salt Solutions, by N. V. Tovbin, Z. L.
Voevodskaya.

RUSSIAN, per, Ukrain Khim Zhur, Vol XXII, No 2, 1956,
pp 173-179.

Assoc Tech Sv *Tr*
\$8.75

Sci - Chemistry
Aug 57

37,533

RT-773

Thiazolocarboyanines With Aryl Radicals in
the Thiazole Nuclei. 2. 5,5'-di- and 4,4',5,5'-
tetraaryl Thiazolocarboyanines, by E. D. Suich.

RUSSIAN, per, ~~Ukrain Khim~~ Zhur, Vol XXII, No 2,
1956, pp 217-222.

Sci - Chem
Jul 57

Sci Mus Lib Tr 56/4124
SLA - 61-13345
49,384

Gordon, B. Ye.

USE OF ADSORPTION POLAROGRAPHY IN QUALITY CONTROL (Primeneniye Adsorbtsionnoy Polyarografi v Sortovom Analize). May 61 [18]p. 23 refs. RTS 1761. Order from OTS or SLA \$1.60 61-19913

Trans. of Ukrainskiy Khimicheskiy Zhurnal (USSR) 1956, v. 22, no. 2, p. 239-245.

DESCRIPTORS: *Polarographic analysis, *Quality control, Adsorption, Anesthetics, Food.

Adsorption polarography is shown to be applicable to the problem of identifying the type or grade of a wide variety of products of the foodstuff flavoring and the pharmaceutical industries. In addition to the effect of surface-active materials on the polarographic maximum, use may also be made of the retardation of the electrode process which these materials exhibit. A method capable of giving easily reproducible adsorption polarograms, in phosphate solutions of copper, is described. (Author)

61-19913

- I. Gordon, B. Ye.
- II. RTS-1761
- III. Department of Scientific and Industrial Research (Gt. Brit.)

278401

Office of Technical Services

(Chemistry--Physical,
TT, v. 6, no. 3)

Intermediate Stages of the Reactions in the
Formation of Carbides of Titanium, Zirconium, Vanadium,
Niobium and Tantalum, by G. V. Samsonov, 19 pp.

RUSSIAN, per, Ukrain Khim Zhur, Vol XXIII, 1956,
pp 287-296.

ABC 3387

Sci - Chem

Nov 58

76,441

Coordinated Utilization of Native Fuels of the
Ukrainian SSR XVI. Composition of Gases Obtained
From Low Moor Peats of the Ukrainian S. S. R. by
Semi-Coking With Solid Heat Carriers, by
F. I. Kuznetsov, A. A. Bobrova, 6 pp.

RUSSIAN, part, Ukrain Khim Zhur (USSR), Vol XXIX,
No 3, 1956, pp 405-408.

Asoco Tech Serv
54527R

ATS/RJ-1627

86,356

Sci - Fuels
May 59
USSR, 7 S, No 6

Photometric Determination of Small Quantities of
Beryllium in Aluminum Alloys, by L. P.
Adonovich, & B. V. Yutsis.

RUSSIAN, per, Ukrainskiy Khimicheskiy Zhurnal.
Vol XLII, No 4, 1976, pp 523-526.

MF XJ2 187

Sci
Feb 63

222,433

Synthesis and Properties of Dimercapto
Derivatives of Alkylsulfonic Acids, I.
Synthesis of Sodium 2, 3 Dimercaptopropyl-
Sulfonate (Unithiol) and Sodium 2 Mercapto
Ethyl Sulfonate, by V. E. Petrun'kin, 15 p.

RUSSIAN, per, Ukrainakiy Khim Zhur, 1956,
Vol XX, No 5, pp 603-607.

XXII

SLA 59-20155

Sci

Feb 60

Vol 2, No 12

108,236

Polarographic Determination of Riboflavin,
by G. P. Tikhomirova, et al. UNCL

UKRAINIAN,
~~RUSSIAN~~, per, Ukrainskiy Khim Zhur, Vol. XLII,
No 5, 1956, pp 687-690.

DSIR LLU RTS 1485

(10a.)

Sci - Phys
May 60

116, 614

Polarization Electromotive Forces in the
Electrolysis of Fused Fluorides, by Yu. K.
Delimarskiy, F. F. Grigorenko, UZSU.

UKRAINIAN, per, Ukrainskiy Khim Zhur, Vol XXII,
No 6, 1956, pp 726-730.

DSIR LLU RTS 1471

67-10064
(12s. 6a.)

Sci - Chem

May 60

116,615

Determination of Oxygen in Metals and Oxides by Means of Sulfurmonochloride. I. Determination of Oxygen in Aluminum, Copper and Iron Oxides, and in Barium Sulfate, by K. E. Kleiner, 5 pp.

RUSSIAN, per, Ukrain Khim Zhur, Vol XXII, No 6, 1956, pp 809-812.

navy L 1946/TG-40

Assoc Tech Sv 14J15R

ATS/RJ-732

Sci - Chemistry, Min/Met
Oct 57

54, 102

available from OTS 50¢

Investigation of Methane ~~EX~~ Chlorination in
Metal Chloride Melts, by V. T. Vdovichenko, ~~W~~
N. P. Galenko, I. G. Sariahvili, 13 pp.

UKRAINIAN, per, Ukrain Khim Zhur, Vol XXIII,
1957, pp 110-116.

SLA 68-14312

OTS 63-26582

182, 787

Sci
Feb 62
Vol III, No 11

Systems of Diphenylene Oxide With Bicyclic
and Tricyclic Hydrocarbons and Carbazole, by
V. M. Kravchenko, I. S. Pastukhova, 11 pp.

RUSSIAN, per. Ukrain Khim Zhur, Vol XXIII, No 2,
1957, pp 180-190.

ATS-62M38R

470/K-2602

Sci

Apr 61

16 ³/₂, 254

OTS, Vol III, No 12

The Kinetics and Mechanisms of Naphthalene Oxidation
Over a Vanadium Oxide Catalyst. I. Investigation
of the Influence of the Gas Phase Composition on the
Chemical Composition of the Catalyst and Its
Catalytic Activity, by V. P. Ushakova, et al.

RUSSIAN, per, Ukrain Khim Zhur, # Vol XXIII, No 2,
1957, pp 191-199.

ATS RJ-1112

Sci - Chem
Apr 60

115,375

Intermediate Stages in the Formation of Carbides of
Titanium, Zirconium, Vanadium, Niobium, and Tantalum,
by G. V. Samsonov.

UKRAINIAN

RUSSIAN, per, Ukrainskii Khimicheskii Zhurnal, Vol XXIII,
1957, pp 287-297.

**AEC NP Tr-800*

Sci - Chemistry
Apr 58

see bk file -

*Обсуждаются неорганические и
органические химия*

XXXXXXXX

Determination of Microquantities of Lead in Metallic Indium, by A. I. Volkova, 4 pp.

RUSSIAN, per, Uch. Zap. Akad. Nauk, Vol XXIII, No 4, 1957, pp 430-432.

MDP-V-133

Sci
Nov 59

101,333

Activation Energy of Electrode Processes on XIM
Porous Electrodes, by O. S. Ksenzhek, 6 pp.

RUSSIAN, per, Ukrain Khim Zhur, Vol XXXII, 1957,
pp 443-447. *9270713*

AEC-Tr-5803

Sci - Nucl Sci

Aug 63

341,330

62-10606

Kretov, A. E.
ACYLATION OF N,N-DICHLORARYLSULFAMIDES
AND ARYLSULFAMIDES BY MEANS OF ANHY-
DRIDES OF AROMATIC ACIDS. [1961] 5p. (2 tables
omitted) 1 ref.
Order from OTS or SLA \$1. 10 62-10606

Trans. of Ukrain[skii] Khim[icheski] Zhur[nal]
(USSR) 1957, v. 23, no. 4, p. 493-495.

Portions of this report will not reproduce well.

DESCRIPTORS: *Sulfamide, *Acylation, Anhydrides,
Acids, Synthesis, Aluminum compounds, Chlorides.

A series of acyl derivatives of arylsulfamides were
synthesized by acting on arylsulfamides and N,N-
dichlorarylsulfamides with anhydrides of aromatic
acids, in contact with aluminum chloride. (Author)
Chemistry--Organic, TT, v. 7, no. 11)

I. Kretov, A. E.

Office of Technical Services

Spectrographic Determination of Iodine and Bromine
in Mineral Waters Using a Solid Anode, by N. S.
Atamanenko, E. M. Skobets.

RUSSIAN, per, Uraia Khim Zhur, Vol XXIII, No 6,
1957, pp 770-776.

ATS RJ-1994

Sci - Chem

Jan 60

105,693

Ravikovich, S. D. and Solomko, V. P.
STUDIES OF THE VISCOSITIES AND CRITICAL
TEMPERATURES OF SOME DEUTERO COMPOUNDS
AND THEIR SOLUTIONS. [1961] [s]p. 12 refs.
Order from OTS or SLA \$1.10 61-27801

Trans. of Ukrain[skii] Khim[icheski] Zhur[nal]
(USSR) 1958, v. 24, no. 1, p. 7-12.

DESCRIPTORS: *Deuterated compounds, Water, Heavy
water, Butanols, Acetic acid, Acids, Propanols, Vis-
cosity, Temperature, Deuterium, Hydrogen, Liquids,
Molecular structure, Physical properties.

The viscosity and critical temperatures of some deuterio
compounds were studied. Replacement of hydrogen by
deuterium results in a decrease in the critical tempera-
ture and the viscosity of liquids. The previously pro-
posed theorems on relation of viscosity to critical
(Chemistry--Physical, TT, v. 7, no. 5) (over)

61-27801

I. Ravikovich, S. D.
II. Solomko, V. P.
III. Translations, New York

Office of Technical Services

Krylova, N. I. and Nablev, M. N.
THERMOGRAPHIC ANALYSIS OF THE SYSTEM
 $\text{NH}_4\text{NO}_3\text{-Ca-(NO}_3)_2\cdot 4\text{H}_2\text{O}$
Bertha P. Klenova and Carol J. Cunningham, trs.
19 Sep 62, 14p 6refs [TVA] 4010.
Order from OTS, SLA, or ETC \$1.60 TT-63-24286

Trans. of Uzbek[skii] Khim[icheski] Zhur[nal] (USSR)
1958, no. 3, p. 5-17.

DESCRIP.TORS: *Fertilizers, *Ammonium compounds,
*Calcium compounds, *Nitrates, Hydrates, Phase
studies, Calorimetry, *Thermochemistry.

(Chemistry--Physical, TT, v. 11, no. 5)

TT-63-24286

- I. Krylova, N. I.
- II. Nablev, M. N.
- III. TVA-4010
- IV. Tennessee Valley Authority,
Wilson Dam, Ala.

Office of Technical Services

The Role of the Oxygen in Vanadium Oxide
Catalysts in Oxidations, by V. A. Roiter, et al.
UNCL

RUSSIAN, per. Ukrain's'kiy Khim Zhur, Vol XXIV,
No 1, 1958, pp 37-45.

DSIR LLU RTS 1261

(LI 2a.6d.)

Sci - Chem
Feb 60

107,249

The Oxidation of Methane, by Z. Z. Vysotskiy,
M. V. Polyakov. URCL

RUSSIAN, per, Ukrainekiy Khim Zhur, Vol XXIV,
No 1, 1958, pp 46-54.

DSIR LLJ RTS 1180

Ll. 2s. 6d. anywhere

Sci - Chem
Oct 59

99,464

Investigation of the Influence of Potassium
Tetraborate on the Oxidation of Methane, by
V. I. Urizko, N. V. Polyakov. UNCL

RUSSIAN, per, Ukrainskiy Khimicheskiy Zhurnal, Vol XXIV,
No 2, 1958, pp 177-181.

DSIR LLU RTS 1181

12s. 6d.

95,823

Sci - Chem
Sep 59

A Study of the Effects of the Reactor Walls on the
Oxidation of Methane, by T. P. Kornienko, M. V.
Polyakov. UNCL

R

RUSSIAN, per, Ukrainskiy Khim Zhur, Vol XXIV, No 2,
1958, pp 182-189.

DSIR LIJ RFS 1182

Il. Os. Od.

95, 824

Sci - Chem
Sep 59

Investigation Into the Kinetics and Mechanisms
of Oxidation of Methyl Alcohol in the Absence
of a Catalyst, by S. M. Loas, M. V. Polyakov.
UNCL

RUSSIAN, per, Ukrainakiy Khim Zhur, Vol XXIV,
No 2, 1958, pp 190-197.

DBIR LLU RTS 1183

LL. Cs. Od.

95,825

Sci - Chem
Sep 59

An Investigation of the Kinetics and Mechanism of
Oxidation of Methyl Alcohol in the Presence of Platinum,
by S. M. Loos, M. V. Polyakov.

RUSSIAN, per, Ukrain Khim Zhur, Vol. XXIV, No 3, 1958,
pp 305-311.

Sci - Chem

Jul 59

ATS RJ-1673

ATS - 802 29 R

90,849

An Investigation of the Transformation of Methanol
into Formaldehyde in the Presence of a Silver Contact
as Catalyst, by T. P. Kornienko, M. V. Polyakov.

RUSSIAN, per, Ukrain Khim Zhur, Vol XXIV, No 3, 1958,
pp 312-319.

ATS RJ-1693

Sci - Chem

Jul 59

90,861

Diffusion Processes in a Cationite and Kinetics
of Ion Exchange, by M. Ya. Ramankevich, 15 pp.

UKRAINIAN, per, Ukrain Khim Zhur, Vol XXIV, 1958,
pp 325-335.

AEC 3450

Sci - Chem

Dec 58

78,247

Investigation of the Reaction of Beryllium With
Aluminum, by L. S. Serdyuk, G. P. Federova, 7 pp.

UKRAINIAN, per, Ukrain Khim Zhur, No 3, 1958,
pp 384-387.

AEC AABC/Trans-2
*ATIC F-TS-9799/V

Sci - Phys
Apr 61

149,026

Photo Reduction of Methylene Blue on Titanium
Dioxide, by R. Ya. Muxhiy, A. V. Pamfilov,
7 pp.

RUSSIAN, per, Ukrainskiy Khimicheskiy Zhurnal,
Vol XXIV, No 4, 1958.

C.S.I.R. No 106

178,904

Sci - Chem

Jan 62

Investigation of the Effect of Vessel Walls
on the Oxidation Kinetics of Propane-
Butane Mixture, by V. V. Shalya,
V. M. Polyakov, 7 pp.

RUSSIAN, per, Ukrainskiy Khim Zhur, Vol XXIV,
No 4, 1958, pp 453-458.

OTS 60-16552

Sci
Mar 62
Vol 4, No 4

187, 755

Photo Reduction of Methylene Blue on
Titanium Dioxide, by R. Ya. Mshki,
A. V. Puzilov, 7p.
RUSSIAN, per, Ukrainski Khimicheski
Zhurnal, Vol 24, No 4, 1958, pp 462-466.
OSIR-tr.286

336, 207

Sci
Aug 67

A Simple Method of Obtaining 9-Acetyl-9,
10-Dihydrophenazine and 9, 10-Diacetyl-9,
10-Dihydrophenazine, by G. M. Prilutskiy,
5 pp.

XENON UKRAINIAN, ser, Ukrain Khim Zhur, Vol
XXIV, No 4, 1958, pp 489-490. 9037757

NIH

Sci - Chem

Apr 59

84,638

Synthesis of Senezine (10-Ethylphenazine-1).
Communication 1. Synthesis of Intermediate
Products: o-Nitrodiphenylamine, Phenazine, and
Phenazine Ethylsulfate, by V. P. Dvernitskiy,
10 pr.
UKRAINIAN.
ХІМІКА, per, Ukrain Khim Zhur, Vol XXIV, No 4,
1958, pp 549-553. 9637758

NIH

Sci - Med

Apr 59

84,378

The Photocatalytic Activation of Zinc Oxide, by A. V. Pashilov, R. Ya. Mushii, Ya. S. Mazurkevich, 4 pp.

UKRAINIAN, per, Ukrain Khim Zhur, Vol XXIV, 1958,
pp 599-601.

Sci - Chem
Feb 60

ABO HP-tr-320
DATE REC'D 11/2/60
(100) 107,528
SLA 60-15025

Voitsekhovskii, R.V. and Vovnenko, A.M.
L'EFFET DE SUSPENSION (Suspensionnyy Effekt)
(Suspension Effect) 23p. (Foreign text included) 8 refs.
CNRS-VIII bis 502.
Order from OTS, ETC or CNRS \$0.90 TT-62-28304

Trans. in French of *Ukrainskii Khimicheskii Zhurnal*
(USSR), 1958, v. 24, no. 5, p. 608-617.

DESCRIPTORS: *Colloids, pH, Determination,
Electrodes.

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

TT-62-28304

I. Voitsekhovskii, R.V.
II. Vovnenko, A.M.
III. CNRS-VIII bis 502
IV. Centre National de la Recherche
Scientifique, Paris

Office of Technical Services
European Translations Centre

Burmistrov, S. I. and Vlasova, O. Kh.
SYNTHESIS OF HERBICIDES. I. BIPHTHALATE
ESTERS OF ARYLOXYETHANOLS (Sintez Gerbitsidov.
I. Kislyye Ftalevokisllyc Estiry Ariloksetanolov).
[1960] [6]p. 4 refs.
Order from LC or SLA mi\$1.80, ph\$1.80 61-10617

Trans. of Ukrainskiy Khimicheskiy Zhurnal (USSR)
1958, v. 24, no. 5, p. 629-631.

Derivatives of aryloxyethanols, a series of biphthalate
esters of the aryloxyethanol type
 $\text{HOOC}_6\text{H}_4\text{COOCH}_2\text{CH}_2\text{OAr}_2$, were synthesized.

(Agriculture--Plant Cultivation, TT, v. 5, no. 7)

61-10617

- I. Herbicides--Synthesis
- I. Burmistrov, S. I.
- II. Vlasova, O. Kh.
- III. Title: Biphthalate...

148,559

Office of Technical Services

Demchenko, P.A.
SOLUBILITÉ COLLOÏDALE, SOLUBILISATION DU
TÉTACHLORURE DE CARBONE DANS LES HYDRO-
SOLS DES SAVONS SODIQUES D'ACIDES GRAS SATU-
RÉS (Colloidal Solubility (Solubilization) of Carbon
Tetrachloride in Hydrosols of Sodium Soaps of Satu-
rated Fatty Acids). 6p. CNRS-VIII bis 647.
Order from OTS, ETC or CNRS \$1.10 TT-62-26556

Trans. in French of Ukrainskii Khimicheskii Zhurnal
(USSR) 1958, v.24, no.6, p.746-748.

DESCRIPTORS: *Carbon compounds, Chlorides, Solu-
bility, Soaps, Sodium compounds, Fatty acids,
*Colloids.

(Materials, TT, v. 11, no. 9)

TT-62-26556

I. Demchenko, P.A.
II. CNRS-VIII bis 647
III. Centre National de la Recher-
che Scientifique, Paris

Office of Technical Services
European Translations Centre

Tiselskiy, A. P.
INVESTIGATIONS OF A SERIES OF POLYCYCLIC
THIAZOLES. 3. SYMMETRIC CARBOCYANINES FROM
2-METHYL-6-DIMETHYLAMINO-4,5-BENZOBENZ-
THIAZOLE. [1961] [16]p. 11 refs.
Order from OTS or SLA \$1.60

61-14930

Trans. of Ukrainskiy Khimicheskoy Zhurnal (USSR)
1958, v. 24, no. 6, p. 749-756.

DESCRIPTORS: *Thiazoles, *Dyes, *Thiocyanines,
Synthesis, Spectrographic analysis.

(Chemistry--Organic, TT, v. 6, no. 5)

61-14930

I. Tiselskiy, A. P.
II. Title: Symmetric ...

180436

Office of Technical Services

Stability of Borides of Transition Metals to
Acids and Alkalies, by K. D. Modylevskaya,
C. V. Samsonov, 13 pp.

UKRAINIAN, per, Ukrain Khim Zhur, Vol XXV,
1959, pp 55-61.

CIA/FDD XX-745
NOT RELEASABLE TO FOREIGN NATIONALS

Sci - Chem
Jan 60

USIB INTERNAL USE ONLY

105,842

Investigation of the Decomposition Potential of the
System K_2ZrF_6 -NaCl-KCl, by I. N. Sheiko,
V. G. Feshchenko, 11 pp.
UKRAINIAN, per, Ukrainskiy Khim Zhur, Vol XXV,
No 2, 1959, pp 166-172. 9429071
AEC-NP-Tr-1230

NL/5826.4 1965 (11041)

Sci-Chem
Jul 65

282,635

Investigation of the Kinetics of Reactions
Between Primary Aromatic Amines and Picryl Chloride
in Benzene Solution, by L. M. Litvinenko, et al.

RUSSIAN, per, Ukrain Khim Zhur, Vol XXV, No 2,
1959, pp 189-195.

DSIR LLJ M. 2041

Sci - Chem

170,761

Oct 61

Determination of Several Rare-Earth Elements by
Flame Photometry, by N. S. Poluyektov, M. P.
Nikonova, 14 pp.

RUSSIAN, per, Ukrain Khim Zhur, Vol XXV, 1959,
pp 217-225.

AEC-tr-5291

Sci - chem

Jan 63

218,839

list 74

Lutskie, A. E. and Obykhova, E. M.
ON THE ISOTOPE EFFECT ON THE VISCOSITY OF
LIQUIDS. [1961] [3]p. 7 refs.
Order from OTS or SLA \$1.10

61-27879

Trans. of Ukrain[skii] Khim[icheskii] Zhur[nal]
(USSR) 1959, v. 25, p. 274-275.

DESCRIPTORS: *Deuterated compounds, Water, Heavy
water, Butanols, Acetic acid, Acids, Propanols,
Viscosity, Temperature, Deuterium, Hydrogen,
Liquids, Molecular structure, Physical properties.

Objections are raised to some of the conclusions
drawn by S. D. Ravikovich and V. P. Solomko (Ukrain.
Khim. Zhur. 24: 7-12, 1958; available in translation
from OTS or SLA \$1.10 as 61-27801) from their
experimental data.

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

61-27879

I. Lutskie, A. E.
II. Obykhova, E. M.
III. Translations, New York

Office of Technical Services

State Diagrams of Binary Salt Systems. 5. $TiCl_3$ -
 $NaCl$, $TiCl_3$ - KCl , $TiCl_3$ - $RbCl$, $TiCl_3$ - $CsCl$,
by B. F. Markov, R. V. Chernov, 9 pp.

UKRAINIAN, per, Ukrain Khim Zhur, Vol XXV, 1959,
pp 279-284.

ABC Tr-4357

Sol
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The Formation of Ferrites in the Aging of Metal
Hydroxides, by V. P. Chalyi, 4 pp.

UKRAINIAN, per, Ukrain Khim Zhur, Vol XXV,
1959, pp 285-287,

AEC Tr-3991

Sci - Chem
May 60

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Application of the Agar-Agar Electrophoretic
Method to Isolation of Soluble Proteins in
Nerve Tissue, by A. V. Palladin, N. M.
Polyakova, 11 pp.
RUSSIAN, per, Ukrayinskiy Biokhimich Zhur,
Vol 31, No 3, 1959, pp 307-311.
GGSTI TT-64-19543

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Sci - B&M
Mar 67

Production of Metal Hydroxides and Silica Gels
of Different Porosities and an Investigation of
Their Adsorption Properties, by I. E. Neimark,
M. A. Piontkovskaya.

UKRAINIAN, per, Ukraina'kii Khimicheskii Zhurnal,
No 3, 1959, pp 322-325.

DSIR LLU RTS 1556

Sci - Chem

128,844

Oct 60

Steric Hindrance in Cyanine Dyes Containing Alkyl
Groups in Polymethine Chain, by A. I. Kiryanov, A. I.
Tolmachev, 9 pp.

RUSSIAN, per, Ukrain Khim Zhur, Vol. XXV, No 3, 1959,
pp 337-343.

CIA/FDD XX-1152

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USIB INTERNAL USE ONLY

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Chloromethylation of Toluene and Chlorobenzene,
by L. B. Rapp, K. A. Kornev.

UKRAINIAN, psr, Ukrain Khim Zhur, Vol XXV, 1959,
pp 351-353.

OTS 60-16576

Sci - Chem

Nov 60

Vol IV, No 4

132,291

Determination of Oxygen in Metals and Oxides Using
Sulfur Monochloride S_2Cl_2 , by K. B. Kleiner,
E. V. Ocolenchik, 7 pp.

RUSSIAN, per, Ukrain Khim, Zhur, Vol XXV, 1959,
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ABC UCRL Tr-801(L)

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Production of Homogeneous Anion-Exchange Membranes,
by Ya. M. Romankevich, et al.

UKRAINEAN, per, Ukrains'kii Khimicheskii Zhurnal,
No 3, 1959, pp 392-394.

DSIR LLU RTS 1557

Sci - Chem

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Investigation of the Adsorption of Electrolytes
by Silica Gel With the Use of Radioactive Tracers,
by D. N. Strazhesko, G. F. Yankovskaya.

UKRAINIAN, per, Ukrain Khimicheskii Zhurnal,
No 4, 1959, pp 471-476.

DSIR LLU RTS 1558

Sci - Chem

128,716

Oct 60

Diffusion Precipitation Chromatography of
Sulphides Using Agaroid Jelly, by N. L. Olenovich,
et al.

UKRAINIAN, per, Ukrain Khimicheskii Zhurnal, No 4,
1959, pp 509-511.

DSIR LLU RTS 1559

Sci - Chem

Oct 60

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(NY-4509)

Third Ukrainian Republic Conference on Physical
Chemistry, 7 pp.

UKRAINIAN, per, Ukrain Khim Zhur, Vol XXV, No 4,
1959, pp 553-556.

JPRS 5377

Sci - Chem

Sep 60

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(NY-4302).

Eighth All-Union Conference on the Chemistry of
Complex Compounds, 34 pp.

~~RUSSIAN~~
~~UKRAINIAN~~ per, Ukrain Khim Zhur, Vol XXV, No 5,
1959, pp 680-691.

JPRS 5988

Sci - Chem
21 Nov 60

133, 851

A Study of the Coloured Complexes of Some Rare-Earth Elements and Aluminon, by L. S. Serdyuk, G. P. Fedorova.

UKRAINIAN, per, Ukrains'kii Khimicheskii Zhurnal, No 5, 1959, pp 644-649.

DSIR LLU RTS 1560

Sci - Chem

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Oct 60

The Role of Magnese in the Electrolysis of Zinc
Sulphate Solutions, by Z. A. Shaka,
K. F. Karlysheva.

RUSSIAN, per, Ukrain Khim Zhur, Vol XXV, No 5,
1959, pp 668-673

MLL RTB 2170

Sci - Chem
May 63

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(NY-4302)

Eight All-Union Conference on the Chemistry of
Complex Compounds,

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~~RUSSIAN~~, per, Ukrain Khim Zhur', Vol XXV, No 5, 1959,
pp 680-691.

*JPRS

Sci-Chem

14 Jun 60

Frankovich-Zabludovskaya, T. P., Zayats, A. I.,
 and Kirchuk, V. T.
 MECHANISM OF ELECTRODEPOSITION OF MO-
 LYBDENUM AND TUNGSTEN ALLOYS WITH
 METALS OF THE IRON GROUP. I. INVESTIGA-
 TION OF METHODS OF CONSTRUCTING INDIVID-
 UAL POLARIZATION CURVES, tr. by Leonard
 Shapiro. [1960] 13p. (9 figs. omitted) 21 refs.
 Order from LC or SLA ml\$2.40, pb\$3.30 61-15067

Trans. of Ukrainskiy Khimicheskiy Zhurnal (USSR)
 1959, v. 25, no. 6, p. 713-721.

151945

(Machinery--Manufacturing, TT, v. 3, no. 9)

61-15067

- 1. Molybdenum alloys--
Electrodeposition
- 2. Tungsten alloys--
Electrodeposition
- I. Frankovich-Zabludovskaya,
T. P.
- II. Zayats, A. I.
- III. Kirchuk, V. T.
- IV. Title: Investigation...

Office of Technical Services

Investigation of the Process of Thermal Dis-
sociation of Molybdenum Hexacarbonyl. 1.
Dependence of the Rate of the Heterogeneous Process α
on Temperature and Activation Energy, by A. A.
Rozen, 6 pp.

UKRAINIAN, per, Ukrain Khim Zhur, Vol XXV:
1959, pp 735-738.

AEC Tr-4286

Sci - Chem
21 Feb 61

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Thiazolocarboyanines With Aryl Radicals in
Thiazole Nuclei. VII. Effect of Polar Groups in
Thiazolocarboyanines on Color, by Ye. D. Sych,
11 pp.

RUSSIAN, per, Ukrain Khim Zhur, Vol XXV, No 6,
1959, pp 767-773.

SLA 60-18990

CIA FDDX-1011

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USIB Internal Use 146,191

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Only Not Releasable
to Service Staffs

Frantsovich-Zabludovskaya, T. F., Zayats, A. I.,
and Barchuk, V. T.
MECHANISM OF ELECTRODEPOSITION OF MO-
LYBDENUM AND TUNGSTEN ALLOYS WITH
METALS OF THE IRON GROUP. II. OSCILLO-
GRAPHIC INVESTIGATIONS, tr. by Leonard Shapiro.
[1960] 10p. (4 figs. omitted) 13 refs.
Order from LC or SLA ml\$1.80, pb\$1.80 61-15066

Trans. of Ukrainskiy Khimicheskiy Zhurnal (USSR)
1960, v. 26 [no. 1] p. 10-15.

151944

(Machinery--Manufacturing, TT, v. 5, no. 9)

61-15066

1. Molybdenum-nickel alloys--
Electrodeposition
 2. Nickel-tungsten alloys--
Electrodeposition
 3. Oscillographs--
Applications
- I. Frantsovich-Zabludovskaya,
T. F.
 - II. Zayats, A. I.
 - III. Barchuk, V. T.
 - IV. Title: Oscillographic...

Office of Technical Services

Pyankov, V. A. and Kostyuk, A. P.
THE FORMATION OF AN OXIDE FILM ON A COP-
PER SURFACE. [1963] 5p (figs omitted) 7refs
Order from OTS, SLA, or ETC \$1.10 TT-63-20850

Trans. of Ukrainskii Khimicheskii Zhurnal (USSR)
1960, v. 26, no. 1, p. 138-141.

DESCRIPTORS: *Copper, Copper compounds, Oxides,
Films, Production, Oxygen, Oxidation.

(Chemistry--Physical, TT, v. 11, no. 9)

TT-63-20850

I. Pyankov, V. A.
II. Kostyuk, A. P.

Office of Technical Services

A Study of the Thermal Dissociation of Molybdenum
Carbonyl. 2. The Effect of Temperature on the
Carbon Content of the Molybdenum and Its Micro-
hardness, by A. A. Rozen.

UKRAINIAN, per, Ukr Khim Zh, Vol 26, 1960,
pp 151-157.
NES-UR-5285

Sci-Materials
Mar 70

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Aminomethylation of Certain Aromatic
Compounds, by S. E. Gornostaeva, K. A.
Kornev.

RUSSIAN, per, Ukrainskii Khimicheski
Zhurnal, Vol 26, No 2, 1960, pp 227-232.
ATS-17T9OR

Sci-Chem
Aug 66

309,226

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(DC-411)

Sixth Ukrainian Republic Conference on Organic
Chemistry, 9 pp.

UKRAINIAN, per, Ukrain Khim Zhurn, Vol XXVI, No 2,
1950, pp 273-277.

JPRS 3705

Sci - Chem

Aug 60

123,067

Vol'fson, V. Ya., Korneychuk, G. P., and Royter, V. A.
CHARACTERISTICS OF THE CATALYTIC OXIDATION OF NAPHTHALENE. I. KINETICS OF OXIDATION OF PHTHALIC ANHYDRIDE ON A VANADIUM OXIDE CATALYST. [1960] 9p.
Order from ATS \$13.30

ATS-73M47R

Trans. of Ukrain[skiy] Khim[icheskiy] Zhurnal
(USSR) 1960, v. 26, no. 3, p. 305-313.

151513

Chemistry--Physical, TT, v. 5, no. 8)

61-12672

1. Naphthalenes--Oxidation
2. Vanadium oxides--
Catalytic properties
3. Phthalic anhydride--
Oxidation
- I. Vol'fson, V. Ya.
- II. Korneychuk, G. P.
- III. Royter, V. A.
- IV. Title: Kinetics...
- V. ATS-73M47R
- VI. Associated Technical
Services, Inc., East
Orange, N. J.

ATS - RJ-2911

Office of Technical Services

Slyusarov, A. T. and Gershuns, A. [P.].
SYNTHESIS OF THE GALLIC ACID ANILIDES
(Sintez Anilidov Gallovoi Kisloty). [1961] 7p. 12 refs.
Order from OTS or SLA \$1.10

61-16568

Trans. of Ukrainskii Khimicheskii Zhurnal (USSR)
1960, v. 26, no. 3, p. 364-367.

DESCRIPTORS: *Gallic acid, Anilides, Organic acid,
Acids. Synthesis. Chlorides, Chemical reactions.

61-16568

I. Slyusarov, A. T.
II. Gershuns, A. P.

201396

Sameonov, G. V. and Radzikovskaya, S. V.
VACUUM-THERMAL METHOD OF PREPARING
CERIUM MONOSULFIDE. 9 Nov 60. 1p. AID rept.
60-85; AD-246 714.
Order from LC or SI.A mi\$1.80, ph\$1.80 61-13993

Abstract trans. of Ukrainskiy Khimicheskiy Zhurnal
(USSR) 1960, v. 26, no. 4, p. 412-417.

The sulfidization of CeO_2 was best accomplished by introducing dry H_2S over CeO_2 at $900^\circ C$. The addition of carbon contaminated the end product with carbides, and the addition of sulfur only rendered the procedure more complicated. The synthesis of monosulfide, was conducted according to the reaction $Ce_2S_3 + CeO_2 + 2C \rightarrow 3CeS + 2CO$. The reaction was carried out in a vacuum electric furnace at $1500-1600^\circ C$. The reaction products were contaminated with carbides and oxysulfides of cerium, the pure product was obtained after subsequent second heating with an addition of 70% of the initial stoichiometric quantity of Ce_2S_3 . (Chemistry--Inorganic, TT, v. 5, no. 4)

61-13993

1. Cerium compounds--
Synthesis
2. Metal sulfides--Synthesis
- I. Sameonov, G. V.
- II. Radzikovskaya, S. V.
- III. AID-60-85
- IV. Air Information Div.,
Washington, D. C.
- V. AD-246 714

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Office of Technical Services

Diffusion of Chromium Through Its Oxide, by
I. M. Fedorchenko, Y. B. Ersolovich,
RUSSIAN, per, Ukrainskiy Khimicheskiy Zhurnal,
Vol 26, No 4, 1960, pp 429-431.
*AEC

Sci - Materials
Jun 67

Korneichuk, G. P., Roiter, V. A. and others.
[CHARACTERISTICS] OF THE CATALYTIC OXIDA-
TION OF NAPHTHALENE. II. INVESTIGATION OF
THE OXIDATION OF NAPHTHALENE IN DEEP
BEDS OF VANADIA CATALYSTS. [1962] 8p.
Order from ATS \$13.40 ATS-46N53R

Trans. of Ukrain[skii] Khim[icheski] Zhur[nal] (USSR)
1960, v. 26, no. 4, p. 432-439.

DESCRIPTORS: *Naphthalene, Oxidation, Catalysts,
Vanadium catalysts, Oxides.

See also ATS-73M47R

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

62-12786

- I. Korneichuk, G. P.
- II. Roiter, V. A.
- III. Title: Investigation...
- IV. Title: Peculiarities of
the Catalytic...
- V. ATS-46N53R
- VI. Associated Technical
Services, Inc.,
East Orange, N. J.

Office of Technical Services

(DC-5527)

Ukrainian Republican Conference on the
Industrial Use of Sorbents, 6 pp.

RUSSIAN, per, Ukrainskiy Khim Zhur, Vol XXVI,
No 4, 1960, pp 540-542.

JPRS 81A7⁶

154, 116

Sci - Chem

May 61

Vol'fon, V. Ya., Korneichuk, G. P. and others.
[CHARACTERISTICS] OF THE CATALYTIC OXIDA-
TION OF NAPHTHALENE. III. KINETICS OF THE
OXIDATION OF NAPHTHALENE IN DEEP BEDS OF
VANADIA CATALYSTS. [1962] 6p.
Order from ATS \$9.45 ATS-47N53R

Trans. of Ukrain[skii] Khim[icheskii] Zhur[na]l (USSR)
1960, v. 26, no. 5, p. 588-593.

DESCRIPTORS: *Naphthalenes, Oxidation, Catalysis,
Vanadium catalysts, Oxides.

See also ATS 46N53R

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

62-12787

- I. Vol'fon, V. Ya.
- II. Korneichuk, G. P.
- III. Title: Kinetics...
- IV. Title: Peculiarities of
the Catalytic...
- V. ATS-47N53R
- VI. Associated Technical
Services, Inc.,
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Office of Technical Services

Gorokhovatskii, Ya. B. and Rubanik, M. Ya.
ELECTRONIC MECHANISM OF INTERACTION OF
OXYGEN AND ETHYLENE WITH SILVER
(Elektronnyi Mekhanizm Vzaimeistviya Kisloroda
i Etilena s Serebrom) tr. by J. P. Ruban. [1962]
[12]p. (foreign text included) 10 refs. [CSIRO] Trans.
5665.
Order from OTS or SLA \$1.60 62-24625

Trans. of Ukrainskii Khimicheskii Zhurnal (USSR)
1960, v. 26, no. 5, p. 594-599.

DESCRIPTORS: Adsorbents, Adsorption, *Oxygen,
*Ethylenes, *Silver, Catalysts, Catalysis, Electro-
chemistry.

By measuring the difference of the contact potential
it was found that oxygen when chemically adsorbed by
silver attracts silver electrons and becomes neg-
atively charged. Ethylene is chemically adsorbed by
(Chemistry--Physical, TT, v. 8, no. 4) (over)

62-24625

- I. Gorokhovatskii, Ya. B.
- II. Rubanik, M. Ya.
- III. CSIRO Trans-5665
- IV. Commonwealth Scientific
and Industrial Research
Organization (Australia)

CSIRO 5665

Office of Technical Services

62-24578

Andrievskii, R. A. and Fedorchenko, I. M.
VARIATION DES POROSITÉS "OUVERTES" ET
"FERMÉES" LORS DU FRITTAGE DES CORPS
PORÉUX [Change in the Open and Closed Porosity in
the Sintering of Porous Bodies] tr. by Mihailova
28 Dec 61 [12]p. 12 refs. CEA Trans. no. R 1456
(text in French).
Order from OIS or SLA \$1.60 62-24578

Trans. in French of [Brazn'skii] Khamicheski
Zhurnal (USSR) 1960, v. 26, no. 5, p. 616-620.

DESCRIPTORS: *Porous materials, *Sintering,
Powder alloys, *Additives, Oxides, Copper, Iron,
Silver.

(Chemistry--Physical, TT, v. 8, no. 3)

I. Andrievskii, R. A.
II. Fedorchenko, I. M.
III. CEA-tr-R1456
IV. Commissariat à l'Énergie
Atomique (France)

Office of Technical Services

On the Constancy of Tangential Rupture in a
Rarefied Plasma, by L. D. Pichekhchi, 8 pp.

UKRAINIAN, per, Ukrain Fiz Zhur, Vol VI, No 1,
1961, pp 86-92. 9669413

FTD-TT-63 182

Sci-Phys
July 63

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Influence of Spatial Factors on Properties of Dye
Containing Biphenyl Nucleus, 6 pp.

RUSSTAN, per, Ukrain Khim Zhur, Vol XXVII, No 1, 1961,
pp 94-97.

CIA/FDD XX-1179
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Sci

198,432

May 62

USLB INTERNAL USE ONLY

Crystalline Double Salts of Lead Iodide, by
A. M. Golub, G. I. Golodets, 7 pp.

RUSSIAN, per, Ukrain Khim Zhur, Vol XXVII, No 2,
1961, pp 138-141.

CIA/TDD XX-1313
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USIB INTERNAL USE ONLY

Chem
Sci - ~~Phys~~

Dec 62

218,170

Ostroverkhov, V. G, and Shilov, E. A.
ÉTUDE SUR LA THÉORIE DES ADDITIONS NUCLÉO-
PHILES. VII. DE LA POSSIBILITÉ DE RÉACTIONS
D'ADDITION SOUS L'ACTION D'AGENTS NUCLÉO-
PHILES FAIBLES SUR DES MOLÉCULES À LIAISON
DOUBLE (Issledovanie po Teorii Nukleofil'nykh pri
Soedinenii VII) (Theory of Nucleophilic additions. VII.
Possibility of addition in the Action of Weak Nucleophiles
on Molecules with double Bonds). 9p (foreign text
included) 10 refs FR-2332.
Order from OTS, ETC or CNRS \$0.80 62-26428

Trans. in French of Ukrainskii Khimicheski Zhurnal
(USSR) 1961, v. 27, no. 2, p. 209-212.

DESCRIPTORS: Molecules, Chemical bonds, *Addition
reactions.

(Chemistry, TT, v. 10, no. 10)

62-26428

- I. Ostroverkhov, V. G.
- II. Shilov, E. A.
- III. F/R-2332
- IV. Centre National de la
Recherche Scientifique
- V. Title: Possibility . . .

Office of Technical Services

Cyanine Dyes Derived From 2-Methylanthraquinone-
(1,2:3,4)-imidazole, by A. V. Stetsenko, G. V.
Chernyavskiy, 5 pp.

RUSSIAN, par, Ukrain Khim Zhur, Vol XXVII, No 2,
1961, pp 237-240.

CIA/FDD XX-1176
NOT RELEASABLE TO FOREIGN NATIONALS

Sci

198,431

May 62

USIB INTERNAL USE ONLY

(BF-1878)

Sergey Stepanovich Urazovskiy, by A. Ye. Lutskiy,
V. I. Atroshchenko, A. V. Voronov, 9 pp.

RUSSIAN, per, Ukrainskiy Khim Zhur, Vol XXVII,
No 2, 1961, pp 274-278.

JPRS 4780

USSR

Biog

Aug 61

162/52

(SF-1878)

The Fourth Ukrainian Conference on
Physical Chemistry, by A. S. Afanas'yev,
5 pp.

RUSSIAN, per, Ukrain Khim Zhur, Vol XXVII,
No 4, 1961.

JPRS 13033

Sci - Misc

189,482

Mar 62

TT-64-10711

Babenko, A. S. and Tolmachev, V. N.
TRIPLE COMPLEX COMPOUNDS IN THE METAL ION-
NITRON-(THIOCYANOGEN) ION SYSTEM. [1963] 14p
45refs
Order from OTS, SLA, or ETC \$1.60 TT-64-10711

Trans. of Ukraineki Khimicheski Zurnal (USSR)
1961, v. 27 [no. 6] p. 732-739. (Abstract available)

DESCRIPTORS: *Complex compounds, *Sequestering
agents, *Thiocyanates, Nitrogen compounds, Ethylenes,
Chlorides, Metals, Chemical analysis.

Complexing in the metal ion-nitron-thiocyanate system
was investigated qualitatively. Of 62 metal ions tested,
23 ions form triple complexes extractable with ethylene
dichloride. Thirteen metal ions form colored extract-
able complexes for which absorption spectra were ob-
tained. On the basis of a comparison of the data in the
literature and experimental results the conclusion may
(Chemistry--Analytical, TT, v. 11, no. 9) (over)

1. Title: Nitron thiocyanate:
- I. Babenko, A. S.
- II. Tolmachev, V. N.

Office of Technical Services

Reaction of the Derivatives of Symmetrical
Triazine. 1. Studies on the Reaction of Cyanuric
Acid With the Alpha-oxides.

RUSSIAN, per, Ukrain Khim Zhur, Vol XXVIII, No 1,
1962, pp 94-101.

Possibly to Come From Contacts
per 10 Dec 62 memo
USIB INTERNAL USE ONLY

Sci - Chem

Dec 62