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by S. A. Shchukarev, G. Grossman, M. P. Marozova, 2 pp.

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Basic and Acidic Oxides of Metals of the Large
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Nickel Perchlorates, by S. A. Shchukarey, Z. U.
Borisova, G. M. Orlove, 3 pp.

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pp 1053, 1054.

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The Role of Ionization Potentials in the Thermodynamics of the Halides of Metals in the First Subsequent period of the Fourth Period of D. I. Mendel'ev's System, by S. A. Shebukarev, M. A. Oranskaya, 11 pp.

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Sub-Group of the Vth Group of the Periodic
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4 pp.

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No 6, 1961, pp 1773-1776.

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Determination of the Saturated Vapor Pressure of Indium
Oxide, by B. A. Shebukarev, G. A. Semenov, 3 pp.

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1961, pp 2090-2091.

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Study of Molybdenum Halides. 1. Vapor Pressure and
Dissociation Pressure of Molybdenum Pentachloride, by
S. A. Shchukarev, I. V. Vasilkova, B. N. Sharupin,
6 pp.

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1956, pp 2093-2096.

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The Enthalpy of Formation of Lithium Stibide, by
S. A. Sheinberg, N. Volf, M. P. Morozova, 2 pp.

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M. A. Oranskaya, 14 pp.

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The Enthalpy of Formation of Compounds of ²¹⁰Radium with Phosphorus, Arsenic and Antimony, by S. A. Shchukarev, M. P. Morozova, H. M. Bortrukova, 3 pp

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Quantitative Colorimetric Determination of
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Molybdenum Tetrachloride, by
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Univ., No 22, No 4, 1961, pp 127-128.
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Mass-Spectrometric Study of the
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S. A. Shchukarev, et al.
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A. Thermodynamic Investigation of
Polybenzimidazole, by S. A. Shchukarev.
USSR, Tr. Vostrik Leningradskogo
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pp. 14-15.
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Small Amounts of Ketones, by S. A. Shchegolev,
N. Andreev, O. V. Sapozhnikova, 4 pp.

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S. N. Andreev, 12 pp. UNCLASSIFIED.

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Hydrolysis and enthalpy of formation of niobium
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2 pp.

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pp: 1216-1218.

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Thermal Dissociation of Gold Chlorides, by S.A.
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AEC-Tr-4586

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Thermodynamic Investigation of Certain Chlorine Deri-
vatives of Tungsten, by S. A. Shchukarev, G. I.
Novikov. 6 pp.

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pp. 357-361.

AEC-Tr-4584

Sci

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Enthalpy of formation of niobium pentabromide and
oxide tribromide, by S. A. Shchukarev, E. K.
Smirnova, 1 pp.

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The Oxychloride of Trivalent Uranium, by S. A.
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The Periodic Law of D. I. Mendel^yev as a Basic Concept
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Effect of the Concentration of Solutions of Acids on the
Heat of Their Reaction with Zinc and Barium Hydroxides,
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4 pp.

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Missing Perissads and Artiads that have No Stable
Odd Subelements* (* Read at a meeting of the
Leningrad Section of the D. I. Mendeleyev All-Un
Chem Society on 25 Mar 1948.)

Zhur Obshch Khim, Vol XIX, No 3, 1949 (Mar), pp 345-
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Higher Barium Phosphides. by S. A. Shchukarev, H. P.
Morozova, E. A. Prokofyeva, 1 pp.

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SHCHUKAREV, S. A., Chair of Gen and Inorg Chem,
University of Leningrad

So-called Anomalies and Degenerated Anomalies of
Element (Atomic) Weights* (*Presented Feb 6, 1947 at
a meeting of the Chemical Society in Commemoration
of the 40th Anniversary of the death of D. I. Men-
deleyev

Zhur Obshch Khim, Vol XIX, No 3, 1949 (Mar), pp 329-
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SHCHUKAREV, S. A.

The Isomucleon Rule and the Apportionment of the
Stable Subelements between the Artiads and the
Perissads* (*Read before a scientific meeting of
Leningrad State University on January 9, 1947.)

Zhur Obshch Khim, Vol XIX, No 3, 1949 (Mar), pp ~~127~~-

~~127~~ 390.

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A 1113

The Heats of Formation of UO_2Cl_2aq , UO_2Br_2aq ,
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 $UO_2Br_2 \cdot 3H_2O$, by S. A. Shchukarev, I. V. Gerasimova,
V. M. Drosdova, K. E. Frantsova.

RUSSIAN, part, Zhur Neorgan Khim, Vol. IV, No. 1,
1959, pp 39-41.

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III. The Thermochemistry of Solid Uranium Oxynitrides
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E. V. Vasil'kova, V. M. K. Drozdeva, N. S. Martynova.
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Chromium Dioxide - Preparation, Properties, and
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Mass Spectrometric Study of the Sublimation of
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Problems of Contemporary Chemistry of Coordination Compounds, by S. A. Shchukarev and L. S. Lilich,

RUSSIAN, bk, Problemy Sovremennoi Khimii i Koordinatsionnykh Soedineniy,

*CB

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Optical and Tensimetric studies of the Chlorine
Derivatives of Hexavalent Tungsten, by S. A. Sachukarev,
G. I. Novikov, 16 pp.

RUSSIAN, per, Zhur Neorgan Khim, Vol III, No 12, 1958,
pp 2630-2641.

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May 62

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The Disproportionation of Uranium Trichloride, by
S. A. Shchukarev, I. V. Vasil'kova, 6 pp.

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1956, pp 2652-2656.

AEC-Tr-4593
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~~Shchukarev, S. A.~~, Andreev, S. N., and Balicheva,
T. G.

INFRARED SPECTRA OF PERCHLORIC ACID AND
ITS SOLUTIONS IN THE REGION 3700-2300 CM.⁻¹.
[1962] 12p. 25 refs.

Order from OTS or SLA \$1.60

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I. Shchukarev, S. A.
II. Andreev, S. N.
III. Balicheva, T. G.

Trans. of Leningrad U. Vestnik (USSR) 1962 [v. 17]
no. 4 [Seriya Fizika i Khimii no. 1] p. 128-134.

DESCRIPTORS: *Perchloric acid, Gases, Water, Solu-
tions, Organic solvents, *Spectra (Infrared), Absorp-
tion spectra.

A study is made of vibrational frequencies of aqueous
HClO₄ in a broad range of its concentrations, and of
the vibrational spectra of this acid in gas phase and in
organic, non polar solutions.

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

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Investigation of Polydentate Salts.
Determination of the Formation Potential of
Tetrahydroxide, by S. A. Shchukin, et al.
Abstract, per, Vestnik Leningradskogo Universiteta Ser. Fiz. Khim. No 22, 1961,
pp 127-129.

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Vibrational Spectra of the Water of Crystallization
in Monocrystals of $\text{NiSO}_4 \cdot 7\text{H}_2\text{O}$, $\text{NiSO}_4 \cdot 6\text{H}_2\text{O}$, $\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$
near the Fundamental of the O-H Valence Vibration,
S. N. Andreyev, S. A. Shchukarev, T. G. Balicheva,
pp. 5.

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1960, pp. 183-188.

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Sept 61

Mass Spectrometric Method for the Study of the
Evaporation of Slightly Volatile Substances, by S. A.
Shekulsarev, G. A. Semenov, 7 pp.

RUSSIAN, per, Zhur Georg Khim, Vol II, No 6, 1957,
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AEC-tr-4056
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Thermochimistry of Iodates and Chlorates,
Chlorides and Cyanides, by
S. A. Shekharov.
Doklady, Ser. Khim. Nauk, 1957, pp. 142-149.
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of D. I. Mendeleev, by S. A. Shchukarev, 10 pp.

RUSSIAN, per, Zhur Neorg Khim, Vol II, No 4, 1957,
pp 713-718.

AEC-tr-4054
PL-480

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A Possible Application of the Lambert-Buer
Law to the Study of Gaseous Systems in a Wide
Temperature Range, by S. A. Shebukarev, G. I.
Novikov, *7 pp.*

RUSSIAN, *per*, Zhur Neorgan Khim, Vol I, No 11,
1956, pp 2433-2439.

AEC-Tr-4592
PL-480

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Thermal Dissociation of Platinum Halides. Communication
1. Platinum Bromides, by S. A. Shchukarev, T. A.
Tolmacheva, 10 pp.

RUSSIAN, per, Zhur Neorgan Khim, Vol 1, No 1, 1962,
pp 3-16.

AEC-tr-4532
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Thermal Dissociation of Platinum Halides. Communication
2. Platinum Chlorides, by S. A. Shchukarev, M. A.
Oranskaya, 8 pp.

RUSSIAN, per, Zhur Neorgan Khim, Vol. I, No. 1, 1959,
pp 17-23.

AEC-tr-4582
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Infrared Absorption Spectra of Anhydrous Sulfuric
and Orthophosphoric Acids, by S. A. Shchukarev,
3 pp.

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Seriya Fiz. i Khim., No 1, 1964, pp 147-151.

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FID-64-358

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Studies on Halide Complexes of Zinc, Cadmium and Mercury in Aqueous Solutions, by S. A. Shchukarev and L. S. Lilich, 8 pp.

RUSSIAN, per, Zhur Neorgan Khim, Vol I, No 2, 1956, pp 225-231.

AEC-tr-4583
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Saturation Pressure of Vanadium Tetrachloride Vapor,
by S. A. Sachukarev, M. A. Oranskaya, 5 pp.

RUSSIAN, per, Zhur Neorgan Khim, Vol I, No 1, 1956,
pp 30-35.

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PST 571

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Spectrophotometric Study of Complex Bromides of Cobalt
in Alcoholic Solutions, by S. A. Sachukarev, O. A.
Lobaneva, 3 pp.

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pp 804-808.

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Optical and Tensimetric Studies of the
Chlorine Derivatives of Hexavalent Tungsten,
by S. A. Shchukarev, G. I. Novikov, 16 pp.

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No 12, 1958, pp 2630-2641.

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III. Heats of Formation of the Hexavalent
Tungsten Chloro-Derivatives, by
S. A. Shchukarev, I. V. Vasil'kova, 6 pp.

RUSSIAN, per, Zhur Neorgan Khim, Vol III,
No 12, 1958, pp 2642-2646.

AEC-tr-4460
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Heats of Formation of Uranyl Chloride and
Uranium Monoxytrichloride, by S. A. Shchukarev,
I. V. Vasil'kova, 5 pp.

RUSSIAN, per, Zhur Neorgan Khim, Vol III,
No 12, 1958, pp 2647-2650 .

AEC-tr-4460
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The Heats of Formation of Uranyl Bromide,
Uranium Bromide and Monoxytribromide, by
S. A. Shchukarev, I. V. Vasil'kova, 4 pp.

RUSSIAN, per, Zhur Neorgan Khim, Vol III,
No 12, 1958, pp 2651-2653.

AEC-tr-4460
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Shchukarev, S. A., Kolbin, N. I., and Ryabov, A. N.
ANHYDROUS RUTHENIUM TRIBROMIDE. [1962] [7]p.
8 refs.
Order from OTS or SLA \$1.10 63-13401

Trans. of Leningrad U. Vestnik (USSR) 1961, v. 16,
no. 4, Ser[iya] Fiz[ika] i Khim[ii] no. 1, p. 100-104.

DESCRIPTORS: *Ruthenium compounds, *Bromides,
Anhydrides, Synthesis, Physical properties,
Dissociation.

Anhydrous ruthenium tribromide was prepared by
directly combined ruthenium and bromine in sealed
tubes at a bromine pressure of 15 to 20 atm and a tem-
perature of 450° to 500°C. The density and the lattice
plane spacing of RuBr₃ prepared in the dry way were
determined. A study was made of the thermal dis-
sociation of ruthenium tribromide, and the thermo-
(Chemistry--Inorganic, TT, v. 10, no. 4) (over)

63-13401

- I. Shchukarev, S. A.
- II. Kolbin, N. I.
- III. Ryabov, A. N.
- IV. Translations, New York

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63-13032

Shchukarev, S. A. and Suborov, A. V.
A THERMODYNAMIC INVESTIGATION OF CERTAIN
CHLORINE DERIVATIVES OF MOLYBDENUM AND
TUNGSTEN. [1962] 15p. 26 refs.
Order from OTS or SLA \$1.60 63-13032

I. Shchukarev, S. A.
M. Suborov, A. V.

Trans. of Leningrad U. Vestnik (USSR) 1961 [v. 16]
no. 4 [Seriya Fizika i Khimii no. 1] p. 87-99.

DESCRIPTORS: *Molybdenum compounds, *Tungsten
compounds, *Chlorides, *Oxychlorides, Evaporation,
Dissociation, Disproportionation, Transition
temperature, Measurement, Chemical reactions,
*Thermodynamics.

63-13032

The processes of evaporation, dissociation and
disproportionation in the system $MoCl_5 - MoO_3$ and
 $WCl_6 - WO_3$ by means of membrane and optico-
tensimetric methods were studied. Some thermodynamic
functions of these processes were obtained. (Author)
(Chemistry--Physical, TT, v. 10, no. 3)

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Enthalpies of Formation of Binary Compounds
of the Elements of the Main Subgroup of Group
V. The Phenomenon of Secondary Periodicity
by S. M. Ariya, M. P. Morozova and S. A.
Shchukarev, 6 pp.

RUSSIAN, per, Zhur Obshch Khim, Vol XXV, 5,
No 5, 1957, pp 1131-1136.

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Sep 58

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Study of Solubility in the System CsNO_3 - HNO_3 -
 H_2O at 25° , by S. A. Shchukarev, M. A. Yakimov,
6 pp.

RUSSIAN, per, Zhur Neorgan Khim, Vol III, No 7,
1958, pp 1661-1664.

AEC-tr-4455
PL-48C

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May 62
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Thermal Dissociation of Gold Bromide, by
S. A. Shchukarev, ~~XXXX~~ M. A. Oranskaya, 7 11.

RUSSIAN, per, Zhur Neorgan Khim, Vol III,
No 7, 1958, pp 1478-1482.

AEC-62-4450
PL-430

Sci
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PST 377

195,325

Enthalpy of Solution of Zinc Perchlorate
Hexahydrate, by S. A. Shchukarev, S. V. Andreyev,
Z. G. Borisova, 3 pp.

RUSSIAN, per, Zhur Obshch Khim Vol 27, No 8,
1959, pp 2468, 2469.

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Aug 60

26 190

Enthalpy of Formation of Compounds of Titanium
With Elements of the Main Subgroup of Group V,
by S. A. Shchukarev, M. P. Morozova, Li Miao-hsiu,
3 pp.

RUSSIAN, per, Zhur Obsheh Khim, Vol XXIX, No 8,
1959, pp 2465-2467.

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Heats of Solution of Copper Perchlorate Hexahydrate in
Water and in Aqueous Solutions of Perchloric Acid,
by S. A. Shchukarev, G. M. Orlova, Z. U. Borisova,
pp.

RUSSIAN, per, Zhur Obshch Khim, Vol XXX, No 7, 1960,
pp 2097-2101

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Heats of Reaction of CaO and $\text{Ca}(\text{OH})_2$ With
Hydroiodic and Perchloric Acids, by S. A. Shchukarev,
L. S. Lilich, et al.

RUSSIAN, par, Vest Lenin Univ, Ser Fiz i
Khim, Vol. XIV, No 10, 1959, pp 66-71.

SLA 60-16828

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Vol. IV, No 7
Aug 62

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The Thermal Dissociation of Chromium Bromide
and Chromium Chloride, by S. A. Shchukarev, T. A.
Tolmacheva, 6 pp.

RUSSIAN, per, Zhur Neorgan Khim, Vol. I, No 8,
1956, pp. 1697-1702.

AEC-Tr-1190

Sci.

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