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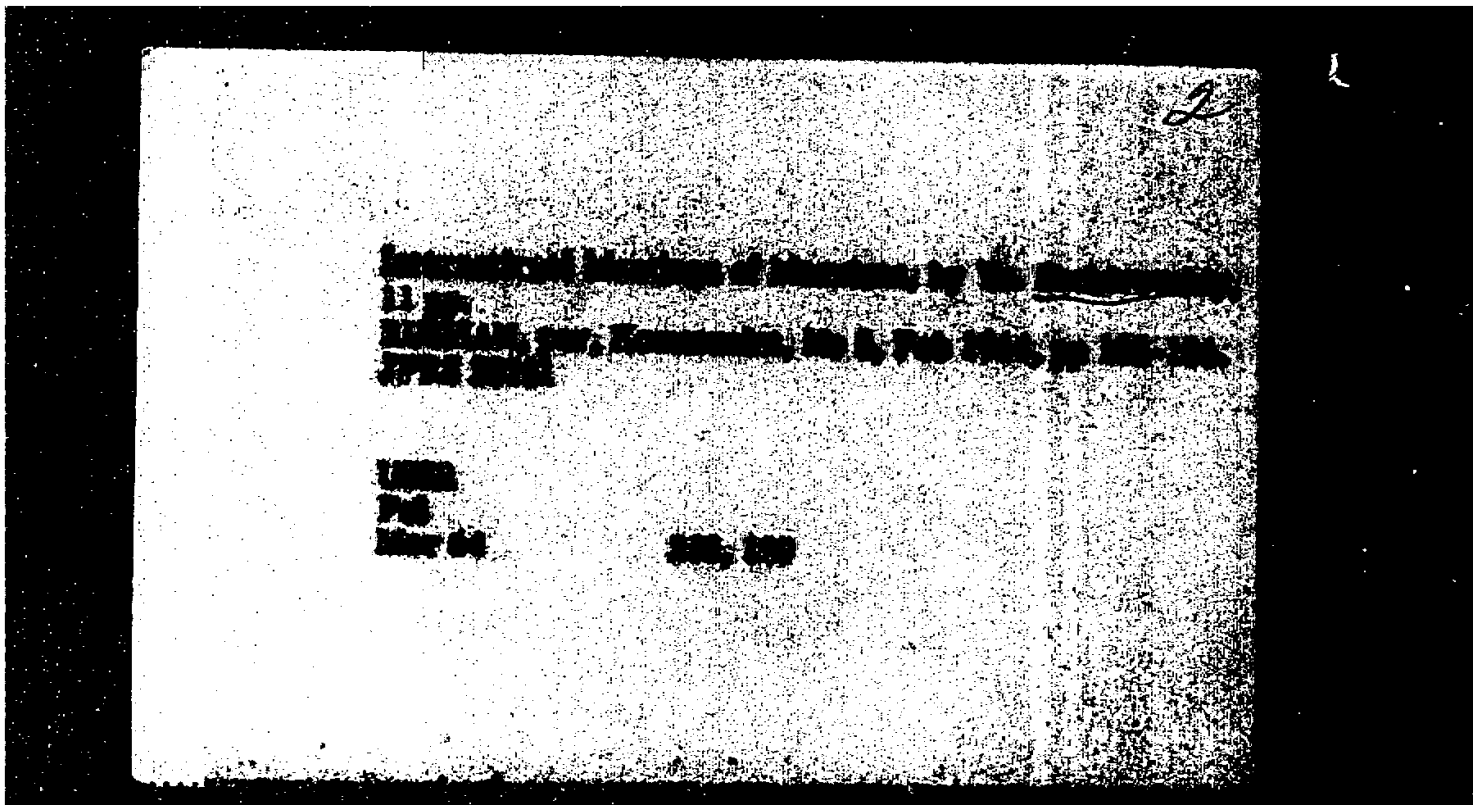
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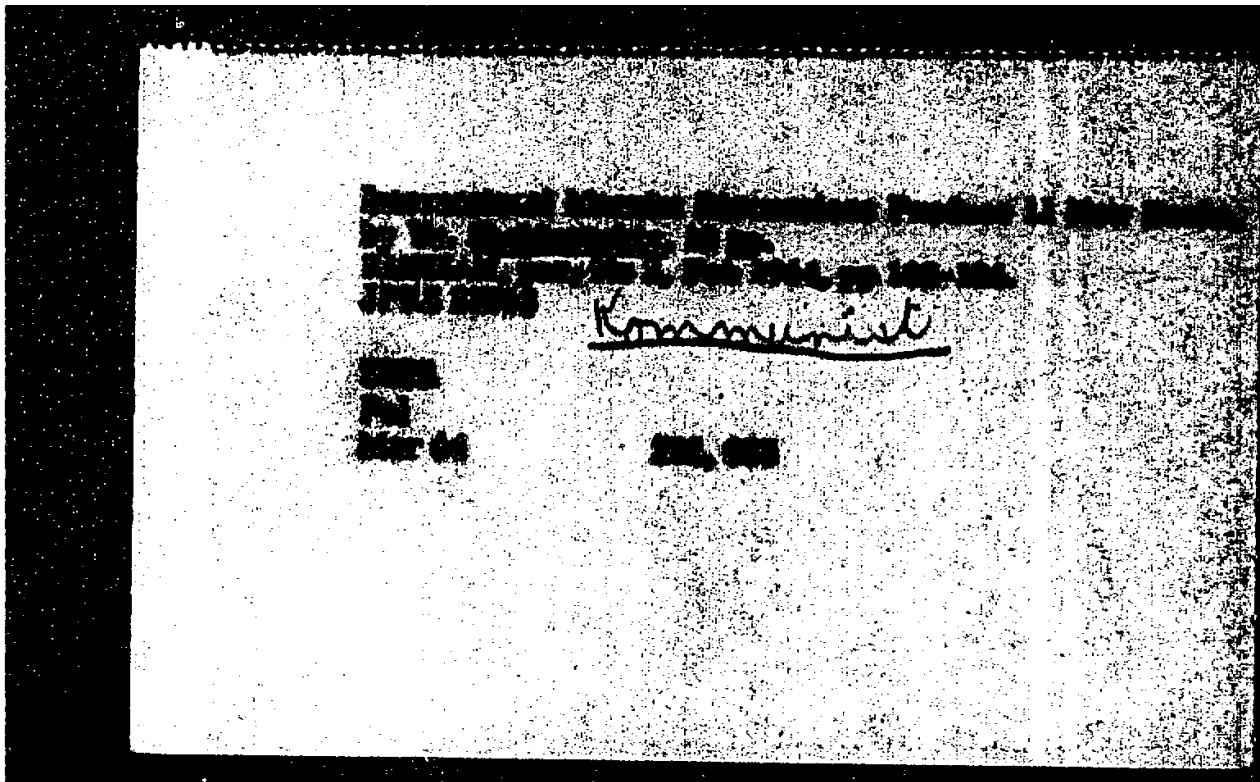
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*Chlorides, Bromides, *Heat of formation, Hydrolysis,
Heat of reaction.

(Physics--Thermodynamics, TT, v. 9, no. 12)

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AEC-Tr-4586

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The Periodic Law of D. I. Mendeleev as a Basic Concept
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Heat of Their Reaction with Zinc and Barium Hydroxides,
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Leningrad Section of the D. I. Mendeleev All-Un
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Zhur Obschch Khim, Vol XIX, No 3, 1949 (Mar), pp 345-
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A - 10851

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
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A10852

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Perissads* (*Read before a scientific meeting of
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A-10853

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 $UO_2Br_2 \cdot 3H_2O$, by S. A. Shechukarev, I. V. Vasil'-
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G. I. Novikov, 16 pp.

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AEC-tr-4460
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INFRARED SPECTRA OF PERCHLORIC ACID AND
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[1962] 12p. 25 refs.

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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)

62-20164

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- II. Andreev, S. N.
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pp 127-129.

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Law to the Study of Gaseous Systems in a Wide
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Thermal Dissociation of Platinum Halides. Communication
1. Platinum Bromides, by S. A. Shchukarev, T. A.
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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[i] 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)

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

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.

The processes of evaporation, dissociation and
disproportionation in the system $\text{MoCl}_5 - \text{MoO}_3$ and
 $\text{WCl}_6 - \text{WO}_3$ by means of membrane and optico-
calorimetric methods were studied. Some thermodynamic
functions of these processes were obtained. (author)
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63-13032

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