

Investigations in the Electric Pressure Oven. IV.
Alkali Peroxides Directly from Alkali Hydroxides
and Oxygen, by Franz Fischer, Hans Floetse, 11 pp.

GERMAN, per, Z Anorg Chem, Vol LXIV, 1912, pp 30-40.

S.L.A.

Scientific .. Chemistry

24,780

Concerning the Reduction of Silica, by K.
Wartenberg.

GERMANY, per, Zeitschrift für Anorganische Chem.,
Vol LXXIX, 1912, pp 71-75.

Dept of Int
US Bur of Mines
Central Exper Sta
Pitts., Pa. Tr 33

Sci - Chem

Jan 59

89, 910

On Bismuth - Iodine Compounds, by H. S. van Klooster,
16 pp.

German, per, Z Anorg Chem, Vol LXXXI, 1913,
pp 104-118.

ANC Zr-4213

Sci - Chem
19 Jan 61

137,319

Silicon and its Position in the Thermo-Electric Series, by F. Fischer, R. Lepsius, E. Baerwind, 12 pp.

GERMAN, par, Z. Anorg Chem, Vol LXXXI, 1913, pp 243-256.

SIA 57-2319

Jul 58

69,969

Comparison of the Sulphates of the Alkaline
Earths and Lead in the Temperature Concentration
Diagrams with Potassium Sulphate with Special
Reference to the Dimorphy of Anhydrite, Cales-
tite, Barytes and Anglesite, by W. Grahmann
GRAHMAN, per, Zeit. Anorg. Chem. Vol 81, 1913,
pp 257-264.
HLL Ref: 5196 (1384)

Sci-Chemistry
Aug 68

362,201

Note on Chemical Guide, by Th. Dieckmann, O. Sand,
5 p.

GERMAN, per, Zeit fur Anorg Chem, 1914, Vol LXXXVI,
pp 301-304.

BLA 59-20863

Sci
Mar 60
Vol 3, No 1

119,856

On Acid Sodium Borates, by J. Ponowareff, 14 pp.

GERMAN, per, ~~Z fuer ANGEW. Chem.~~ Vol. LXXXIX, No 3/4,
5 Nov 1914, pp 383-392.

Dept of Commerce
Patent Office
Sci Lib (gift)

Sci - Chem
Jan 58

57,971

Cerium - Magnesium Alloys, by Rudolf Vogel, 26 pp.

GERMAN, per, Zeit. Anorg. Chem., Vol. XIII, 1931, 1915, pp 277-298.

ABC-UCRL-Tr-930(L)

Sci - Mat & Mat

Aug 63

543,411

Platinum-Iridium Alloys, by W. Geibler.

GERMAN, per, Z. Anorg Chem, Vol. LXX, ^{No 1911,} ₂ Nov 1917,
pp 246-251.

SLA 98-103

Sci

Aug 59

94, 209

63-10483

Balarew, D.
THERMAL DECOMPOSITION OF METAPHOSPHORIC
ACID. [1962] 8p. 7 refs.
Order from SLA \$1.10

63-10483

I. Balarew, D.

Trans. of Zeitschrift für Anorganische Chemie
(Germany) 1917, v. 102, p. 34-40.

DESCRIPTORS: *Phosphoric acid, Pyrolysis, Labora-
tory equipment

(Chemistry--Inorganic, TT, v. 10, no. 1)

Office of Technical Services

Stannic and Plumbic Acids Salts, by H. Zocher.

GERMAN, pt. 2, Z Anorg Chem, Vol CXII, 1920,
pp 1-66.

TIL Tr 4768

Sci - Chem
Jan 58

57,225

The Effect of Grain Boundaries on the
Electrical Characteristics of Solid
Crystals, by C. Tubandt,
GERMAN, per, Z. Anorg. Chemie, 115, 1921
pp. 105-126.
*NBS TT 70-57274

Sci/phys
Jul 70

Diffusion of Carbon in Iron, by I. Runge.
GERMAN, per, Z anorg Chem, No 115, 1921, pp 293-311.
*NBS TT 70-57498

Sci-Mat
Aug 70

On the Diffusion of C in Metals and Particularly Iron Polycrystals, by
G. Tammann.
GERMAN, per, Z. Anorg. Chem 122, 1922,
pp. 27-43.
*NES TT 70-57288

Sci/mater
Jul 70

The Absorption of Nitrogen by Calcium and its Alloys,
by ~~EMERSON~~ O. Ruff, H. Hartmann, **UNCLASSIFIED**

GERMAN, par, XIX Z. anorg. Chem., Vol CXII, 1922,
pp 167-177.

TPA3/TIB
T 4190

15,503

Scientific - Chemistry

The Reduction of Titanium Tetrachloride, by
O. Ruff, F. Neumann, 12 pp.

GERMAN, per, Z Anorg Chem, Vol CXXVIII, 1923,
pp 81-95.

SIA Tr 2104

Sci - Chemistry
Sep 57

53,016

Ruff, O. and Foerster, E.
[OPERATIONS] IN THE [RANGE] OF HIGH TEMPERA-
TURES. XVI. CALCIUM CARBIDE: ITS FORMATION
AND DECOMPOSITION. [1962] 34p. 16 refs.
Order from SLA \$3.60 62-20195

Trans. of Zeitschr[ift für] Anorg[anische] Chemie] (Germany) 1923, v. 133, p. 321-327.

DESCRIPTORS: *Calcium compounds, Decomposition, Fused materials, High temperature research, *Carbides, Preparation, Nitrogen, Hydrogen, Water vapor, Carbon compounds, Monoxides, Vapor pressure, *Thermochemistry.

The question of the existence of a second carbide, possibly CaC , is answered in the negative on the basis of gas-analytical investigations. Using a high-purity carbide which had been prepared by various methods from calcium and carbon the dissociation pressure and (Chemistry--Physical, TT, v. 9, no. 10) (over)

62-20195

- I. Ruff, O.
- II. Foerster, E.
- III. Title: Calcium...
- IV. Its...

Fused Electrolytes, Born's Lattice Forces, and
the Constitution of the Salts, by Wilhelm Biltz,
18 pp.

GERMAN, per, Z. anorg Chem, Vol CXXXIII, 1924,
pp 312-324.

S.L.A.

Scientific - Chemistry

CRS 68/May 55

23, 624

Equilibria Between Metals and Salts in the Melt, no 4.
Contribution to the theory. II, by Richard Lorenz,
8 pp.

Full translation.

GERMAN, per, Z. anorg. Chem., Vol CXXXVIII, 1924,
pp 285-290.

S.L.A.

Scientific - Minerals/metals

Jul 55

76, 949

Hermans, P. H.
THE CONSTITUTION OF BORIC ACIDS AND SOME
OF THEIR COMPOUNDS. [1961] [31] p. (6 tables
2 figs. omitted).
Order from SLA \$2.60 61-18882

Trans. of Zeitschrift für Anorg[anische] Chemie
(Germany) 1924, v. 142, p. 83-114.

DESCRIPTORS: *Boric acids, *Boron compounds,
Hydroxides, Chemical analysis, Chemical reactions.

(Unannounced)

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61-18882

I. Hermans, P. H.

Office of Technical Services

Conversion Rate Of Ammonium Nitrate by A.
Sievverts.

Z. Anorg. Chem.
GERMAN, per, Vol CXLIV, 1925, pp 66-73.

CSIRO

Oct. 62

Density Measurements on Fused Chlorides, by Wilhelm
Klemm, 29 pp.

Full translation.

GERMAN, per, Z. anorg. Chem., Vol CLII, 1925,
pp 235-251.

S.L.A.

Scientific - Chemistry

Jul 55

26,883

On the Conditions for the Formation of the Aluminium
Borides by H. Funk.

GERMAN, per, Z. Anorg. Chem, Vol CXLII, 1925,
pp 269-279.

TPA3/TIB T 3905, P 22326T

EEur - Germany

The Oxide and Chloride of Rhenium, by L. Wohler.
GERMAN, per. Z. Anorg. Chem., No 149, 1925, pp 133-
138.

*NBS TT 70-57507

Sci-Mat
Aug 70

Tammann, G. and Veszi, G.
THE ELECTRICAL CONDUCTANCE OF SALTS IN
SINGLE CRYSTALS AND CRYSTALLITE CONGLOM-
ERATES. [1962] 43p. (figs. omitted) 16 refs.
Order from SLA \$3.60 62-18275

Trans. of Z[sitzsch] [für] Anorganische] Chemie
(Germany) 1926, v. 150 [no. 4] p. 355-380.

DESCRIPTORS: *Crystals, *Single crystals, Salts,
Electrical conductance.

(Physics--Solid State, TT, v. 9, no. 4)

62-18275

I. Tammann, G.
II. Veszi, G.

Office of Technical Services

Further Contributions to the knowledge of the
Conductivity of Fused Salts (II), by Wilhelm Klemm,
Wilhelm Blitz, 16 pp.

Full translation.

CLII,
GERMAN, per, Z. anorg. Chem., Vol CLII, 1926,
pp 225-234.

S.L.A.

Scientific - Chemistry

26,884
Jul 55

The Electrical Conductivity and Molecular State of
Fused Salts, by Wilhelm Eiltz, Wilhelm Klemm, 48 pp.

GERMAN, par, Z. Anorg. Chem, Vol CLII, 1926,
pp 267-294.

H.L.A.

Scientific - M Chemistry

CHI/65 Feb 1955

21,740

Density and Molecular State of Fused Salts, by
Wilhelm Klemm, 31 pp.

Full translation.

BERMAN, per Z. anorg. Chem. Vol. CLII, 1926, pp 295-313.

S.L.A.

Scientific - Chemistry

26,882

Jul 55

A Method of Preparing Large Crystals,
by S. Kyriakoulos.
~~SECRET~~, per, Z Anorg Chem, Vol CLIV,
1926, pp 308-313.
*AEC
EDC May 1, 1966

Sci-Eng/Chem
Mar 66

The Mobilization of Metal Surfaces by Diffusion,
by G. Grube.
GERMAN, per, Z. Anorg. Chem., No 154, 1926, pp 314-332.
•NBS TT 70-57420

Sci-Mat
Aug 70

The Beginning Temperature of Internal Diffusion in
Crystals, by G. Tammann.
GERMAN, per, Z. Anorg Chem., No 157, 1926, pp 321-325.
*NTIS IT 72-53057

Aug 72

Some Observations of Diffusion in Poly-
crystalline Salts, by C. Tubandt, 4 pp.
GERMAN, per, Z. Anorg, Chem. 166, 1927
pp. 27-30.
*NBS TT 70-57844

Sci/phys
Jun 70

62-10535

Tammann, G. and Hönuber, J.
THE INTERNAL FRICTION OF MERCURY (1927)
Sp. Angew. Physik. 7, 1018
Order from S.A. 51, 10 62-10535

I. Tammann, G.
II. Hönuber, J.

Trans. of Zeitschrift für Anorganische Chemie;
(Germany) 1927, v. 167, p. 230-236.

DESCRIPTORS: *Mercury, Internal friction, Capillary
tubes.

(Physics--Solid State, TT, v. 8, no. 9)

Office of Technical Services

Uranium Oxides: 1. Preparation and Analysis,
by W. Biltz, H. Muller

Full translation.

GERMAN, per, Z. Anorg Chem, Vol CLXIII, CLXIV,
1927, pp 258-263.

TPA3/TIB Tr No T-1087

Scientific - Minerals/Metals
Index Aeronautics
Jun 53 CTS/DEX

2309

Uranium Oxides (A Survey of the State Range Between
 UO_3 and UO_2), by W. Biltz, H. Muller

Full translation.

GERMAN, par, Z. Anorg Chem, Vol CLXIII, CLXIV,
1927, pp 294-296.

FPAS/TIB Tr No T-4089

Scientific - Minerals/Metals. *2-57/UM/12*

Index Aeronautics

Jun 53

CTS/DEX

2310

62-12032

Leber, Ad.
THE SYSTEM ALUMINUM-THORIUM (Das System
Aluminum-Thorium). [1961].
Order from AC \$12.00

Trans. of Z[eitschrift] f[ür] Anorg[anische] Chemie.
(Germany) [1927] v. 166 [no. 1/3] p. 16-26.
Another trans. is available from SLA ml\$2.40,
ph\$.30. as AEC-tr-3722 [1959] 12p.

DESCRIPTORS: *Aluminum, *Thorium, *Alloys,
Synthesis, Microstructure, Thermodynamics,
Crystals, Separation.

This paper covers the preparation of aluminum-
thorium alloys, analysis of the thorium alloys,
thermal investigation, microscopic structural investi-
gations, isolations of the crystals, a new method for
isolating crystals, etc. (AC abstract)
(Metallurgy--Light Metals, TT, v. 7, no. 3)

I. Leber, A.
H. Capelo, A., Hollywood,
Calif.

Office of Technical Services

Surface Charges in Metals During Diffusion,
by G. Grube,
GERMAN, per. Z Anorg Chem. No 168, 1928, pp 17-30.
*NBS TT 70-57422

Sci-Mat
Aug 70

Experiments on the complete chemical conversion of
Beryllium, VI, by R. Fricke, P. Rohde, 10 p.

GERMAN, per, *Zeit. für Anorg. Chemie*, 1956, Vol 287,
No 1/2, pp 25-34.

SLA 59-20761

Sci
Mar 60
Vol 3, No 1

110,857

The Kinetics of the Absorption Process of Hydrogen
in Pd, Fe, and Ni, by G. Tammann, 22 pp.
GERMAN, par, Z. ANORG. CHEM. 172, 1928, pp. 43-64
*NBS TT 70-57842

Sci/chem
June 70

62-10104

FERRIC ETHYL ATIE: PREPARATION AND PROPERTIES. 4 Jan 56, 4p. 3 refs.
Order from SLA \$1.10

62-10104

Trans. of Zeitschrift für Anorg[anische] Chemie (Germany) 1929, v. 180, p. 65-[68].

Portions of this report will not reproduce well.

DESCRIPTORS: Iron compounds, Ethyl radicals, Synthesis, Oxides

(Unannounced)

Office of Technical Services

Surface Transport Studies Over Tunsten, by
W. Geiss.
GERMAN, per, Zeit Anorg Chem, Vol 168, 1928,
pp 107-112,
*Nat Bur Stand TT 70-57808

Sci-Chem

Diffusion in Tightly-Bonded Crystals,
by C. Tubandt, 33 pp.
GERMAN, per, Z. Anorg. Chem. 177, 1928
pp. 253-285.
†NBS TT 70-57846

Sci/phys
Jun 70

Study of the Ag-Cu Eutectic Alloy, by
J. A. A. Leroux.
GERMAN, per, Z Anorg Chem, No 178, 1929, pp 257-
271.
*NBS IT 70-57505

Sci-Mat
Aug 70

The Fluorides of Group VIII of the Periodic Table,
by Otto Ruff, Ernst Ascher.

~~ENGLISH~~
GERMAN, per, Zeitschrift für Anorganische Chemie,
Vol CLXXXII, 1929.

ABC Tr '77

13,001

OTS Oct 1949 (1/49)

Scientific - Man/Metals

~~ABC Tr '77~~

On the Properties of Some Metal Hydrides, Part II,
by A. Sieverts, A. Gotta

GERMAN, *pt.*, *Z Anorg Chem*, Vol CLXXVII, 1930,
p 155.

A.E.R.E. Barwell
11/3/5/364 OT/724

Scientific - Chemistry 8900
CTB/HEX

Study of Surface Phenomena on Metals During
Diffusion: The Diffusion of Mo and Fe in the
Solid State, by G. Grube.

GERMAN, per, Z. Anorg. Chem., No 188, 1930, pp 274-
289.

*NBS TT 70-57489

Sci-Mat
Aug 70

63-10592

Hantzsch, A. and Berger, K.
NITROSYL PERCHLORATE AND NITROSYL SURFACE
ALSO THEIR COLORED REDUCTION PRODUCTS.
14 June 60, 16p. 24 refs.
Order from SLA \$1.60

63-10592

I. Hantzsch, A.
II. Berger, K.

Trans. of Zeitschrift für Anorganische
Chemie (Germany) 1930, v. 190, p. 321-336.

DESCRIPTIONS: *Nitrogen compounds, *Perchlorates,
*Sulfates, Chemical properties, Molecular structure,
Reduction (Chemistry), Colors.

(Chemistry--Inorganic, TT, v. 10, no. 2)

Office of Technical Services

<p>Tamman, G. THE RELATIONSHIP BETWEEN THE SOLUBILITY OF RARE GASES IN LIQUIDS AND THE TEMPERA- TURE. [1900] 5p. 10 refs. Order from SLA ma\$1.80, ph\$1.80</p> <p>Trans. of Z[ei]tsch[ift für] Anorg[anische] Chem[ie] (Germany) 1930, v. 194, p. 159-161.</p> <p>(Unannounced)</p>	<p>61-10775</p> <p>1. Rare gases--Solubility 1. Tamman, G.</p> <p>151748</p> <p>Office of Technical Services</p>
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Investigation of the System $\text{Na}_2\text{O} - \text{SiO}_2 - \text{ZrO}_2$,
by J. D'Ans, J. Loeffler, 38 pp.

GERMAN, per, Z. anorg. Chem, Vol CXCII, 1930,
pp 1-35.

ABC Tr 2068

Scientific - Chemistry Mar 55 CBS/DEX

22, 283

Diffusion Studies in Solid W and Mo, by W. Jander.
GERMAN, per, Zeit Anorg Chem, Vol 191, 1930,
pp 171-180.
*Nat Bur Stand TT 70-57823

Sci-Chem
Jul 70

Investigation of the Behavior of Ag and
Ag-Cu Alloys During Annealing in Oxygen
and Air, by J. A. Leroux.

GERMAN, per, Z. Anorg. Chem, 179, 1930
pp. 205-231.

*NBS TT 70-57285

Sci/mater
Jul 70

Hardness of Metal Alloys at Various Temperatures,
by W. Schischekin, W. Agejewa, 3 p.

GERMAN, partial trans, per, Zeit. Fur Anorgan. Chemie,
1930, Vol. V (CXCIII), No. 3, pp. 237-244.

SLA 59-20436

Sci
Mar 60
Vol 3, No 1

Reaction Rates Taking Place Inside Some Inorganic
Solids at High Temperatures, by W. Jander.
GERMAN, per, Zeit Anorg Chem, Vol 189, 1931,
pp 306-320.
*Nat Bur Stand TT 70-57824

Sci-Chem
Jul 70

62-10080

Rosenheim, Arthur, Raibmann, Basia, and
Schendel, Gerhard.
INNER COMPLEX PYROCATECHOLATES OF TETRA-
VALENT ELEMENTS. [1961] 4p. 1 refs.
Order from SLA \$1.10 62-10080

- I. Rosenheim, A.
- II. Raibmann, B.
- III. Schendel, G.

Partial trans. (excerpts) of *Zeitschrift für*
Anorganische Chemie (Germany) 1931. v. 196,
p. 160-164 and 175-176

DESCRIPTORS: Pyrocatechol, Complex compounds,
Silicon, Titanium, Zirconium, Thorium, Uranium

(Unannounced)

Office of Technical Services

63-10593

Ruff, Otto and Staub, Lisbeth.
NITROGEN FLUORIDE AND THE CONDITIONS OF
ITS FORMATION. 29 Oct 58, 6p. 8 refs.
Order from SLA \$1.10 63-10593

- I. Ruff, O.
- II. Staub, L.

Trans. of Z[eitschrift für] Anorg[anische] Chem[ie]
(Germany) 1931, v. 198, p. 32-38.
Another trans. is available from SLA as #921, 11p.

DESCRIPTORS: *Nitrogen compounds, Fluorides,
Synthesis (Chemistry), Electrolytes, Temperature,
*Ammonium compounds, *Electrolysis, Amines,
Electrochemistry.

In the electrolysis of ammonium fluoride-hydrofluoric
acid mixtures, nitrogen fluorides in various ratios are
formed, conditional above all on the ammonia con-
centration and the temperature of the electrolyte. The
quantity of NF_3 is always the largest; next to it appear
(Chemistry--Physical, TT, v. 10, no. 1) (over)

Office of Technical Services

62-14415

Ruff, Otto and Keim, Rudolf.
THE FLUORINATION OF CARBON COMPOUNDS
(BENZOL AND TETRACHLOROMETHANE WITH
IODINE-5-1 FLUORIDE, AS WELL AS TETRA-
CHLOROMETHANE WITH FLUORINE) (Fluorierung
von Verbindungen des Kohlenstoffs (Benzol und
Tetrachlormethan mit Jod-5-Fluorid, sowie
Tetrachlormethan mit Fluor)). [1962] [26]p. (foreign
text included) 24 refs.
Order from SLA \$2.60 62-14415

O. Ruff, O.
R. Keim, R.

Trans. of Zeitschrift für Anorganische Chemie
(Germany) 1931, v. 201, p. 245-258.

DESCRIPTORS: Carbon compounds, Fluorination,
Chlorides, Methanes, Iodine, Fluorides, Fluorine.

(Unannounced)

Office of Technical Services

Studies of Lead Alloys, by E. Garre, A. Muller,
7 pp.

GERMAN, per, Z Anorg Chem, Vol CXCVIII, 1931,
pp 297-309.

BIA 59-15444

Sci - Minerals/Metals
Sep 59
Vol II, No 2

98,663

On the Properties of Some Metallic Hydrides; 3.
Titanium Hydride, by A. Sieverts, A. Gotta

GERMAN, per, Z Anorg Chem, Vol CLXII, 1931,
pp 384-386.

A.E.E.E. Harvell
11/3/5/365 01/712

8901

Scientific - Chemistry
CTS/DEK

62-16481

Ruff, Otto, Menzel, W., and Neumann, W.
NOF AND NO₂F. [1962] 11p. (fig. omitted) 8 refs.
Order from SLA \$1.60 62-16481

- I. Ruff, O.
- II. Menzel, W.
- III. Neumann, W.

Trans. of Zeitschrift für Anorg [anische] Chem[ie]
(Germany) 1932, v. 208, p. 293[-303].

DESCRIPTORS: *Nitrogen compounds, *Oxyfluorides,
Production, Purification, Chemical properties,
Physical properties, Stereochemistry.

(Chemistry--Inorganic, TT, v. 9, no. 1)

Office of Technical Services

62-10550

Hüttig, Gustav F. and Möldner, Herbert.
ACTIVE OXIDES. LXII. SPECIFIC HEATS OF
CRYSTALLIZED ZINC HYDROXIDES AND CALCU-
LATION OF THE AFFINITIES BETWEEN ZINC
OXIDE AND WATER. [1961] 13p. (2 figs. omitted)
22 refs.
Order from SLA \$1.60

62-10550

Trans. of Zeit[schrift] f[ür] Anorg[anische] Chem[ie]
(Germany) 1933, v. 211, p. 368-378.

DESCRIPTORS: *Specific heat, Crystallization, *Zinc
compounds, *Oxides, Water, Hydroxides.

- I. Hüttig, G. F.
- II. Möldner, H.
- III. Title: Specific . . .

Office of Technical Services

(Unannounced)

Oxidation of Phosphorus with Water at Elevated Pressures and Temperatures, by W. N. Ipatieff, Carl Freitag, 37 p.

GERMAN, per, Zeit Anorg Chem, 1933, Vol CCIV, No 3/4, pp 388-414.

SLA 60-10440

Sci
Apr 60
Vol XIX, No 3

112,071

Balz, Günther and Mailander, Erich.
NITROSYL BOROFLUORIDE AND ITS REACTIONS
WITH ALKALI FLUORIDES [1961] 9p. 7 refs.
Order from SLA \$1.10 62-10101

Trans. of Z[eitschrift für] Anorg[anische] Chemie
(Germany) 1934, v. 217, p. 161-[168].

DESCRIPTORS: Alkali metals, Fluorides, Nitrogen
compounds, Oxyfluorides, Borides, Chemical reactions

(Unannounced)

62-10101

I. Balz, G.
II. Mailander, E.

Office of Technical Services

On the Cause of Large Grains in Irons,
by E. Scheil, 8 pp.
GERMAN, per, Z. Anorg. Chem. 211, 1935,
pp. 249-256.
*NBS TT 70-57835

Sci/mat
Jun 70

Solutions of Organic Acids in Hydrogen Fluoride, by
W. Klatt.

GERMAN, per, Z Anorg Chem, Vol CCXXII, 1935,
pp 289-302.

JKA 57-2900
RAE Farnborough Tr 654

Sci - Chemistry
Mar 58

59,261

On Metal Membranes, by N. V. Kultascheff.
GERMAN, per, Zeit Anorg Chem, Vol 223, 1935,
pp 177-184.
*Nat Bur Stand TT 70-57815

Sci-Materials
Jul 70

Nikitin, B. A.
RADON HYDRATE. 8 Dec 61, 18p. 26 refs.
Order from SLA \$1.60 63-10117

Trans. of Zeitschrift für Anorganische Chemie
(Germany) 1936, v. 227, p. 81-93.

DESCRIPTORS: *Radon, Gases, *Hydrates, Dissocia-
tion, Heat of formation, Helium group gases, Complex
compounds.

(Nuclear Physics and Nuclear Chemistry, TT, v. 9,
no. 11)

63-10117

I. Nikitin, B. A.

Office of Technical Services

<p>Huber, H. CONCERNING AN ACID SODIUM POLYPHOSPHATE. [1960] 7p. 11 refs Order from SLA mi\$1.80, ph\$1.80 61-10230</p> <p>Trans. of Zeitschrift für Anorganische Chemie (Germany) 1936, v. 230, Dec, p. 123-128.</p> <p style="text-align: center;"><i>148,487</i></p> <p>(Unannounced)</p>	<p>61-10230</p> <p>1. Sodium phosphates-- Properties 1. Huber, H.</p> <p style="text-align: center;">Office of Technical Services</p>
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62-18686

Schriel, M.
ON THE ACTION OF BARIUM (METAL) ON BARIUM
OXIDE AT HIGH TEMPERATURES. Excerpts from
thesis, Technische Hochschule, Charlottenberg, Nov 35,
1952, 9p. (figs. tables refs. omitted).
Order from SLA \$1. 10 62-18686

I. Schriel, M.
II. Technische Hochschule,
Charlottenburg (West
Germany)

Trans. of Zeits[chrift] f[ür] Anorg[anische] Chem[ie]
(Germany) 1937, v. 234, 8 Apr, p. 313-326.

DESCRIPTORS: *Barium, *Barium compounds,
Oxides, Metals, High temperature research.

(Metallurgy--Light Metals, TT, v. 9, no. 10)

Office of Technical Services

Leschewski, K. and Degenhard, W.
THE CHEMICAL CHANGES OF MOLTEN ALKALI
NITRATES AT TEMPERATURES BETWEEN 460 AND
600° C. [1960] 7p. 4 refs.
Order from SLA mi\$1.80, ph\$1.80 61-10764

Trans. of Zeitschrift [für] Anorganische Chemie
(Germany) 1938, v. 259, p. 17-26.

(Unannounced)

61-10764

- I. Alkali metal nitrates --
Temperature factors
- I. Leschewski, K.
- II. Degenhard, W.

61-10764

Office of Technical Services

The System Potassium Sulfate-Potassium Sulfide, by
Joseph Goubeau, Hans Kolb, Hans Krall, 16 p.

GERMAN, per, Zeitschrift für Anorganische Chemie,
1938, Vol. CXXXVI, pp 45-56.

SLA 59-17305

Sci
Jan 60
Vol 2, No 8

105,570

X-Ray Investigation of the System Co-G, by
D. Ehnqvist, A. Westgren.

BERMAN, per, Zeit Anorganische Chemie, Vol. CCXXXIX,
1938, pp. 28-30.

*SLA/A-139

Sci - Chem
Jul 53

The Handbook of the Alkali Metals
and Other, by D. Bohm, W. Miem

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SLA 60-10084

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ITA3/TIB Tr No 3967

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II. Hofmann, U.

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DESCRIPTORS: Synthesis, *Magnesium compounds,
*Silicates, *Gels, *Crystal structure, Chlorides,
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(Earth Sciences--Mineralogy, TT, v. 10, no. 1)

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THE FORMATION OF CALCIUM SILICATE HYDRATES FROM CALCIUM OXIDE AND SILICIC ACID AT 300° AND 350° C AND HIGH PRESSURES (Die Bildung von Calciumhydrosilikaten aus Calciumoxyd und Kieselsauregel bei 300° und 350° und Hohen Drucken). [1961] [38]p. (foreign text included) 11 refs.
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DESCRIPTORS: *Calcium compounds, *Silicates, *Hydrates, *Oxides, *Silicic acids, Temperature, Pressure.

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I. Glemser, O.
II. Sauer, H.

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DESCRIPTORS: *Tungsten compounds, Oxides,
Synthesis, Phase studies, Chemical reactions.

(Chemistry--Inorganic, TT, v. 10, no. 2)

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Kröger, C. and Behr, W.
PEROXIDE FORMATION IN POTASH LYE (KOH).
16 June 60, Sp. (figs. omitted) 10 refs.
Order from SLA \$1.10 63-10566

I. Kröger, C.
II. Behr, W.

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DESCRIPTORS: *Peroxides, Oxidation, Hydroxides,
*Potassium compounds.

The peroxide compound resulting from the action of oxygen on potassium hydroxide is formed according to $2 \text{KOH} + 1/2 \text{O}_2 = \text{K}_2\text{O}_2 + \text{H}_2\text{O}$. The reaction was investigated along with the simultaneous formation of water; it begins at about 210° and attains a maximum with about 20 percent conversion at 470° .

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DESCRIPTORS: *Carbon compounds, Fluorides,
X-ray diffraction analysis, Molecular structure,
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I. Rudorf, W.
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Crystalline Hydroxides of the Rare
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CEGB Trans 1184

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Concerning Ultraphosphates. Part I. Some Salts
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Acid, by Adolf Kroll, 35 pp.

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INTERFERENCES ON GRAPHITE ANODES IN THE
ELECTROLYTIC PRODUCTION OF FLUORINE.
[1961] [25]p. 20 refs.
Order from SLA \$2.60 62-10726

I. Rüdorff, W.
II. Hofman, U.

Trans. of Zeit[schrift] für Anorg[anische] Chemie
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DESCRIPTORS: *Fluorine, Production, Electrolysis,
Electrolytes, Electrodes, *Electrochemistry,
*Graphite, Anodes, Interference, Electrical effects.

In the electrolysis of KHF_2 with graphite and carbon
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the reaction of the fluorine with the anode materials.
These are ageing phenomena and the anode effect.
The ageing phenomenon has its cause in the formation
of carbon monofluoride $(CF)_x$, catalyzed by HF. This
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