

<p>Thinius, Kurt]. THE EUCOLLOID SYSTEM AND PLASTICIZERS. 29p 9refs. Order from SLA \$2.60 TT-64-16758</p> <p>Trans. of <u>Chemische Technik</u> (East Germany) 1954, v. 4, no. 10, p. 471-476. Another trans. is available from KH \$28.00 as K-H-5309 I (28)p.</p> <p>(Materials--Plastics, TT, v. 12, no. 6)</p>	<p>TT-64-16758</p> <p>I. Thinius, K.</p> <p>Office of Technical Services</p>
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Silicones. XII, Peculiarities in the Determination
of Carbon and Hydrogen in Organic Silicon Compounds
Including Silicones, by H. Lämmer, 14 pp.

GERMAN, per, Die Chemische Technik (Berlin), Vol IV,
1952, pp 491-495.

S.L.A. Tr No 349/1955

Sci - Chemistry
Jan 1957 CTS/dex

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102 P. 5 P. 10

Ion Exchangers and Catalysis, by R. Griessbach,
G. Naumann, 11 p.

GERMAN, per, Chem Technik, 1953, Vol V, No 4,
pp 187-192.

SLA 59-17296

Sci
Dec 59
Vol 2, No 6

104,129

Investigations on the Increasing of the Gammexane
Content in Hexachlorocyclohexane Crude Effective
Substance. II., by H. Furst, 18 pp.

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Saxena, per, Chem. Techn, Vol. V, July 1953, pp 359-
363.

S.I.A. Tr 57/1956

Scientific - Chemistry

33,992

SLA TT 64-10448

Oehme, F. and Ebert, G.
THE DETERMINATION OF THE GAMMA-ISOMER
IN TECHNICAL HEXACHLOROCYCLOHEXANE
MIXTURES BY MEANS OF DIELECTRIC CONSTANT
MEASUREMENTS. [1963] 6p 4refs
Order from SLA \$1.10 TT-63-20429

Trans. of Chem[ische] Techn[ik] (East Germany)
1953, v. 5, no. 7, p. 363-364.

DESCRIPTORS: *Insecticides, *Hexachlorocyclohexanes,
*Molecular isomerism, Mixtures, Chemical analysis,
Dielectric properties, Measurement.

(Chemistry--Analytical, TT, v. 11, no. 3)

TT-63-20429

I. Oehme, F.
II. Ebert, G.
III. Trans-TM-53-53

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Pyriki, C.
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PAPER. [1962] 11p.
Order from K-H \$13.75 K-H 3236-c

Trans. of Chemische Technik (East Germany) 1953,
v. 5, no. 3, p. 442-444.

DESCRIPTORS: *Cigarettes. *Paper. Analysis.

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

62-22655

- I. Pyriki, C.
- II. K-H-3236-c
- III. Kresge-Hooker Science
Library Associates,
Detroit, Mich.

Office of Technical Services

On Terephthalic Acid, by E. Profft.

GERMAN, per, Chem Tech, Vol V, 1953, pp 503-507.

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Sci
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Vaporization of Metals and Metalloids in
Vacuum, by H. Laporte,

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Vol V, No 11, 1953, pp 632-634.

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Brutcher Tr: 3439
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Scientific - Min/Metals

Jun 55 CTS

62-22448

Kymann, W. F.
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Order from K-H \$7.50 K-H 3140-c

Trans. of Chemische Technik (East Germany) 1953,
v. 5, p. 716-717.

DESCRIPTORS: Porosity, *Paper, *Cigarettes.

- I. Homann, W. F.
- II. K-H-3140-c
- III. Kresge-Hooker Science Library Associates, Detroit, Mich.

(Chemistry--Analytical. FT, v. 8, no. 10)

The Production of Germanium, by W. Schreiter.

GERMAN, per, Chem Tech, Vol VI, 1954, pp
141-143.

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Sci - Engr

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Trimeric and Tetrameric Hydrocyanic Acid, by W.
Ruhke, 20 pp.

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SIA 3277
ATS/1045-GJ

Sci - Chem
Aug 58

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The Slightly Aromatic Nature of 1,3,5 Triazine and
Rearrangement Reactions of Various Derivatives, by
W. Ruske, 14 pp.

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SLA 3278

S&I - Chem
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Schreiber, K.
THE GLYCO-ALKALOIDS OF THE SOLANACEAE.
[1962] 44p.
Order from K-H \$55.00 K-H 3471 d
Trans. of Chem[ische] Techn[ik] (East Germany) 1954,
v. 6, no. 12, p. 649-658.

DESCRIPTORS: *Plants, Glycols, *Alkaloids.

(Biological Sciences--Botany, TT, v. 9, no. 1)

62-22723

- I. Schreiber, K.
- II. K-H-3471-d
- III. Kresge-Hooker Science
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Detroit, Mich.

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Sixty Years of Chlorine and Alkali Electrolysis,
by Von W. Heyder, 7 pp. UNCLASSIFIED

GERMAN, per, Chemische Technik, Vol VI, No 7,
1954, pp 388-391, Encl to LA1-435-54, AFOIN.
CIA D 136808

AF 644969

Scientific - Chemistry

Eur - Germany

Econ - Chlorine & Alkali Production, cells

May 55 CTS

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Some Problems for the Chemical Industry in the
GDR, by W. Winkler, 3 pp.

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1954, pp 523-524. Encl to IR-428-55,
Berlin, AFOIN-IAI, 22 Jul 1955, CIA D-277645.

AF 677128

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EEur - Germany
Economic -

Oct 55 CTS

50 Years of Nitrogen Industry, by A. Beyer,
11 pp.

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1954, pp 602-608, Encl to IR-1149-55. CIA D
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AF 702389

Sci - Chemistry, Engineering

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The Effect of Acid or Basic Properties of
Reagents (or Catalysts) on the Course and the
Mechanism of Addition to Unsymmetrical α -Oxides,
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SLA 60-10920

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Thermodynamic Properties of Ethylene, by F. Cramer.

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1955, pp 68-82.

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Sci - Chem
Jan 63
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Micro-Structure and Properties of Deformation[†]
Lignite Tars and Pitches II., by H. Walther

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Insdoc-T1731

Sci - Chem
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TT-65-12440

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Order from SLA: \$1.10 as TT-65-12440

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p526-9 1955.

I. Runge, F.
H. John, H.

MR 633

Automatic Gas Analyzer for Hydrogen Sulfide, by
B.H. Maslennikov, F. A. Kavickaja, 3 pp.

GERMAN, per, Chem Tech, Vol VII, 1955, pp 682-683.

SLA 58-573

Sci

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Cuve a Electrolyse Pour des Analyses Polarographiques
en Serie, by H. G. Nieter, 4 p.

GERMAN to FRENCH, per, Chem Tech, 1956, Vol VIII,
No 2, p 80.

CEA-tr-A349

Sci
Feb 60
Vol 2, No 10

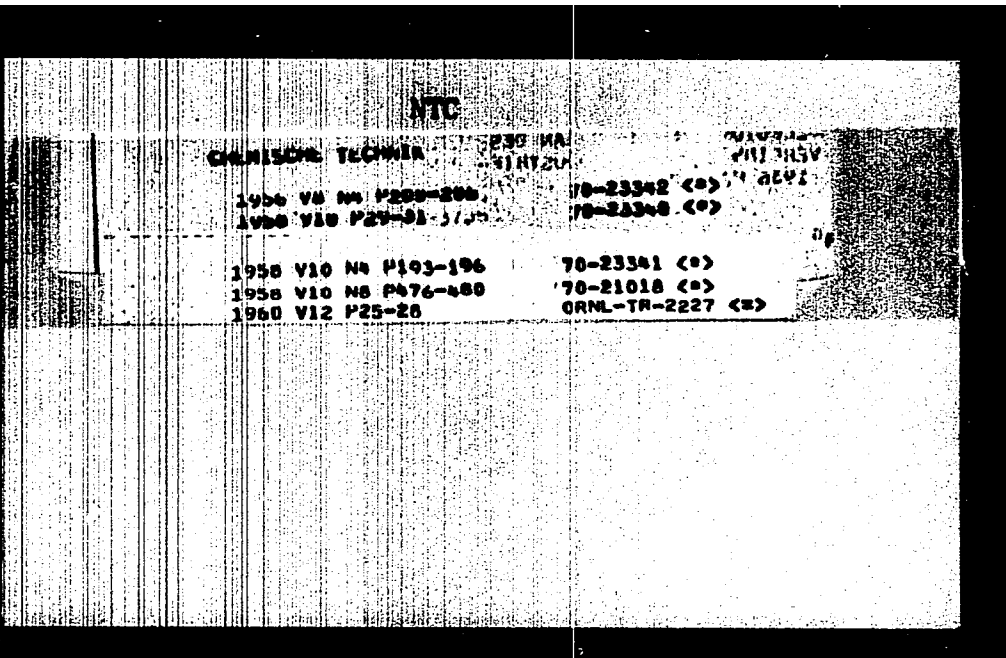
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GERMAN, per, Chem Tech, Vol IV, No 4, 1956, pp 214-217.

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Sci
Aug 58

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Ergebnisse - ⁴Umschlingung Polymerase, by W. Schulz,
(AF 1000002).

Graef, Chemische Technik, Berlin, Vol VIII, No 5,
1956, pp 200-205.

AFIC F-13-000/KKI

Sci - Chemistry
Mar 1957 CIBS

Latest Results of Hydrogenating and Dehydrogenating
in the Area of Medium Pressure, by Richard Birthler.

GERMAN, per, Chem Techn, Vol VIII, May 1956, pp 266-
270.

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Sci - Chem

Apr 58

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Observation of Secondary Structural Variations by
Sorption Isotherm Series, by R. Sander, 12 pp.

GERMAN, per, Chemische Technik, Vol VIII, No 5, 1956,
pp 274-279. 9077278

ACSIL Tr No 1214

Sci - Chem

Aug 61

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Absorption Of Nitrogen Oxides By Water and Sodium Hydroxide by H. Demus.

GERMAN, per, Chemische Technik, Vol VIII, 1956, pp 285-294.

CSIRO

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Determination of Formaldehyde in Unsensitized
Photographic Papers, by W. Taube,

GERMAN, par, Chem Tech, Vol VIII, No 6, 1956,
pp 335-337.

ATS 278,GJ

Sci - Chem
Nov 59

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<p>Schulze, Dietrich. PREPARATION, PROPERTIES, AND USES OF SILICON MONOXIDE. [1961] 16p. 42 refs. Order from SLA \$1.60 61-20516</p> <p>Trans. of <u>Chemische Technik</u> (East Germany) 1956, v. 8, no. 6, p. 341-346.</p> <p>DESCRIPTORS: *Silicon compounds, *Monoxides, Synthesis, Physical properties, Thermochemistry.</p> <p><i>*NAVY/NRL</i></p> <p>(Chemistry--Physical, TT, v. 7, no. 1)</p>	<p>61-20516</p> <p>I. Schulze, D.</p> <p>Office of Technical Services</p>
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An Electrolytic Vessel for Polarographic Serial
Analysis, by H. G. Nieter, 2 pp.

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SLA 57-1700

Jul 58

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The Analytical Chemistry of Plastics. VI. Identification and Determination of Polyols, by Kurt Thinius, & Elisabeth Schroeder, 4 pp.

GERMAN, per, Chem Tech, Vol VIII, No 7, 1956,
PP 397-399.

SIA 59-15651

Sci
Nov 59
Vol 2, No 3

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Economic Considerations of the Problem: Mercury
or Diaphragm Process in the Electrolysis of
Alkali Chlorides, by Walter Heyder, Wilhelm
Springemann, Bitterfeld, 10 pp.
GERMAN, per, Chem. Techn., Vol 8, No 12, 1956,
pp 702-705. F911188567
AEC ORNL Tr-1580

327,876

Sci - Materials
Jun 67

Application of the Telomerization Reaction to the
Synthesis of ω -Amino Acids and the Preparation of
New Polyamide Fibers Based on Them, by A. N.
Nesmejanow, et al, 24 pp.

GERMAN, per, Chem tech, Vol. 11, No 3, 1957,
pp 139-150.

ATS-43-63

ATS TTK201

S.F. - 11-11-65

132, 292

Sci - Chem

4 Nov 60

SLA TT-65-10121

Isolation of Streptomycin by Carbonyl
Exchange, by Josef Hoffman, Mikolaj Horowitz,
7 p.

GERMAN, non, Chemische Technik, 1957, Vol. 11, No. 1
pp 151-155.

612 19-80395

Sci
Feb 68
Vol 2, No 12

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<p>Hein, F. ORGANOMETALLIC COMPOUNDS. [1962] 18p. Order from K-H \$22.50 K-H-6485</p> <p>Trans. of <u>Chemische Technik</u> (East Germany) 1957, v. 9, p. 198-202. <i>TT. 4</i></p> <p>DESCRIPTORS: *Metalorganic compounds.</p>	<p>63-12985</p> <p>I. Hein, F. II. K-H-6485 III. Kreipe-Hoeker-Edwards Library Association, Detroit, Mich.</p> <p><i>TT. 3 - 1975</i></p> <p>Office of Technical Services</p>
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Use of a New Gasoline Vapor Pressure Recorder in
Industrial Control, by Werner Kuntz, Arthur Muller,
11 p.

GERMAN, per, Chemische Technik, 1957, Vol IX,
No 4, pp 209-213.

SLA 59-17464

Sci
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Vol 2, No 8

105,466

Synthesis of Octyl ~~KER~~Alcohol From Cracked
Gasoline With Carbon Monoxide and Hydrogen,
by Joseph Berty, et al.

GERMAN, ~~paper~~, Chemische Technik, Vol IX,
1957, pp 283-286.

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TN7 U52 No 2013

Sci-M/M

Oct 63

241, 484

Thermochromatography in the Gas Phase: A
New Method for the Separation and Determina-
tion of Mixtures, by Helmut Kogler, 13 pp.

GERMAN, per, Die Chemische Technik, Vol IX,
1957, pp 400-403. 646542

Picatinny Arsenal 31
OTIA 3428

Sci - Chem

ASHIB-GB-39

Jul 59

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Borchert, O.
COMPLEXOMETRIC DEVELOPMENT OF IRON,
CALCIUM, ZINC AND PHOSPHORIC ACID IN PHOS-
PHATING BATHS. [1962] 7p.
Order from K-II \$8.75

K-H 6912 a

Trans. of Chem[ische] Techn[ik] (East Germany) 1957,
v. 9, no. 7, p. 419-420.

DESCRIPTORS: Chemical analysis, *Iron, *Calcium,
*Zinc, *Phosphoric acids, Phosphates.

I. Borchert, O.
II. K-H-6912-a
III. Kresge-Hooker Science
Library Associates,
Detroit, Mich.

TT-64-3213

(Chemistry--Analytical, TT, v. 9, no. 10)

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Thermal Conductivity of Gas Mixtures, by H. Lehmann.

GERMAN, per, Chem Technik, Vol IX, No 9, 1957,
pp 530-537.

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UKAEA-Risley-Tr-43

Sci - Nucl Sci

Jul 63

Amino Sugars, by A. Kleser.

GERMAN, per, Chemische Technik, Vol IX, No 10,
1957, pp 584-594.

Natl Res Council, Canada
TT No 781

Sci - Chem

Apr 60

112,645

Medium Pressure Hydrogenation Refining of Brown Coal
Tar Middle Oils With the Aid of a Twin Chamber, by
Richard ~~Smith~~ Birthler, Erwin Deutloff, Christian
Szkibik, 9 pp.

GERMAN, per, in Chemische Technik, Vol X, No 2, 1958,
pp 75-78.

SLA 59-15822

Sci
Dec 59
Vol 2, No 4

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Development Tendencies in the Chlorine Industry, by
Eberhard Richter, 19 pp.

GERMAN, par, Chem Technik, No 5, 1958, pp 261-266.

ACSI, H-2385

EEur - Germany

Econ

Sci - Chem

Jan 59

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Use of Dilute Adsorption Catalysts in the Chemical Industry, by H. I. Kobosew.

GERMAN, per, Chemische Technik, Vol X, No 5, 1958, pp 278-282.

C.S.I.R.O.

Sci

May 60

115,740

The Pharmaceutical Industry, The Most Important
Pharmaceutical Preparation, by R. u. W. Kirsten,
2 pp. *ID 2103372*

GERMAN, per, Chemische Technik, No 6, 1958,
pp 323-324.

ACSI, H-2490

Feb 59

Determination of the Oil Content in Paraffins
and Paraffin Slack Waxes, by Werner Bogen. 8 pp.

GERMAN, par, Chemische Technik, Vol. A, no. 6, 1950,
pp 351-353.

SLA 59-170620

Sci
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Vol 2, No 7

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Mechanisation in the Carbide Industry, by F. Ebster,

GERMAN, per, Chemische Technik, Vol X, No 7,
pp 400-408. 1958

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Chief Librarian, C.S.I.R.O.
31st Albert Street,
E. Melbourne, Australia
C.2, Vic.

Sci
May 60

115,175

The Determination of Bromine and Chloride in Organic
Compounds Using a Modified Schoninger Technique,
by K. Praeger, H. Furst.
GERMAN, per, Chem Techn, No 10, 1958, pp 537-538.
NLL Ref: 9022.401 (746/176)

Sci/Chem
Mar 70

401,883

Progress in the Chemistry of Complex Compounds,
6 pp.

GERMAN, per, Chemische Technik, Vol XI, No 1,
1959, pp 12, 13. 9660794

ATIC MCL-99

Sci - Chem

May 61

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Mechanical-Chemical Changes and the Synthesis of
Polymers, 4 pp.

GERMAN, per, Chemische Technik, Vol XI, No 1,
1959, pp 13, 14. 9650794

ATIC MCL-99

Sci - Chem

May 61.

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Some Problems Relative to the Development of the
Industry of Organic Syntheses, 3 pp.

GERMAN, per, Chemische Technik, Vol XI, No 1,
1959, pp 14, 15. 9660794

ATIC MCL-99

Sci - Chem

May 61

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An Attempt to Couple the Synthesis of Methanol With
the Destructive Hydration of Petroleum and Tar
Fractions, 4 pp.

GERMAN, par, Chemische Technik, Vol XI, No 1, 1959,
p 15. 9660794

ATIC MCL-99

Sci - Chem

May 61

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**Ion Exchangers used as Catalysts in Esterifications
and Hydrolyses, by Friedrich Andreas, 16pp
GERMAN, per, Chemische Technik, Vol 11, 1959,
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SLA TT-65-10114**

Sci - Eng
June 67

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Concerning the Catalytic Properties of Oxidic
Co-Catalysts, by Gunther Rienecker, 14 pp.

GERMAN, per, Chem Tech, Vol XI, 1959,
pp 246-250.

CIA/FDD KX-877

61-10405

Sci - Chem

Aug 60

123, 261

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A L&EO Modification With the Structure of
the 10^2 (a) Cristobalite, by Hans-Albert
Lehmann, Detlef Tress, 5 pp.

GERMAN, per, Chemische Technik, Vol XI,
1959, p 260. ~~9069004~~

AB: Tr-5386

Sci - Phys
Dec 62

217, 427

(NY-3276).

The Development of Personnel for the Chemical Industry, by Wolfgang Goebel, 6 pp.

GERMAN, per, Chemische Technik, No 9, Berlin, 1959, pp 473, 474.

JPRS 2423

ESur - Germany
Econ - Industry
Apr 60

112,736

(NY-3276).

The Development of the Chemical Industry, by Walter
Singer, 10 pp.

GERMAN, per, Chemische Technik, No 9, Berlin, 1959,
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JPRS 2423

EBur - Germany
Econ - Industry
Apr 60

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(NY-3276).

The Development of the VEB "Walter Ulbricht"
Leuna Plant, by Wolfgang Schirmer, 13 pp.

GERMAN, per, Chemische Technik, No 9, Berlin,
1959, pp 501-504.

JPRS 2423

EDat - Germany
Reca - Industry
Apr 60

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(NY-3276).

The VEB Chemical Plant in Muenchrutz, by Gerard
Walther, 11 pp.

GERMAN, per, Chemische Technik, No 9, Berlin,
1959, pp 505-508.

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Educ - Germany
Econ - Industry
Apr 60

112,730

(NY-3276).

Theme and Organization of Work of the Institute of
Synthetic Fiber Research in Relation to Practical
Application, by Hermann Klare, 10 pp.

GERMAN, per, Chemische Technik, No 9, Berlin, 1959,
pp 509-513.

JPRS 2423

112,731

EBur - Germany
Econ - Industry
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(NY-3276).

Cooperation of the Chamber of Technology in
Carrying Out the Chemical Program, by Heinz
Marten, 5 pp.

GERMAN, per, Chemische Technik, Vol XI, No 9,
Berlin, 1959, pp 516, 517.

JPRS 2423

ESur - Germany
Econ - Industry
Apr 60

112, 732

Courbes caracteristiques de travail de la
rectification et du procede d'echange a x deux
temperatures du deuterium, by M. Dietze, S. Pilz,
10 pp.

GERMAN to FRENCH, per, Chem Tech, Vol XI, No 10,
1959, pp 544-546.

Reverse Translation
CEA-A-1408

Sci
Feb 64

TT-63-20389

1. Title: Thiocarbamates
1. Zahradnik, R.

Zahradnik, Rudolf.
CARBAMATES, MONOTHIOCARBAMATES AND
DITHIOCARBAMATES, IX. [1963] 25p (refs omitted)
Order from S.L.A \$2.60 TT-63-20389

Trans. of Chem[ische] Techn[ik] (West Germany) 1959,
v. 11, no. 10, p. 546-553. (Abstract available)

DESCRIPTORS: *Carbamates, Thio radicals, Synthesis
(Chemistry), Chemical analysis, Chemical properties,
Reaction kinetics, Rubber, Drugs, Fungicides.

The paper deals with the preparation, properties,
kinetics of formation and decomposition, and the reac-
tions of stable salts derived from the unstable alkyl
carbamic, alkyl monothiocarbamic, and alkyl dithio-
carbamic acids.

(Chemistry--Organic, TT, v. 11, no. 3)

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SETTE

(NY-3495).

New Pharmaceuticals Exhibited at the Leipzig
Fair, by W. Kirsten, 3 pp.

GERMAN, per, Chemische Technik, No 11, Berlin,
1959, p 618.

JPRS 2683

EEur - Germany
Sci - Chemistry
Jun 60

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Fuel Production in the "Walter Ulbricht" Leuna-Werke. /p.

GERMAN, per, Chemische Technik, No 11, Berlin, 1959,
p 624.

JPRS 2683

EEur - Germany

Econ - Fuels

Jan 60

(SF-1055)

The Common Tasks of the Chemical Industry and Water
Conservation Under the Seven-Year Plan, by
Johann Rochlitzer, 19 pp.

GERMAN, per, Chemische Technik, Vol XI, No 11,
1960, pp 627-635.

JPRS 11476

ESur - Germany

Econ

Jan 62

178, 253

(SF-1855)

The Quantitative and Qualitative Status of Central
German Waters, Their Present and Future Possibilities
of Utilization by the Chemical Industry, by Bernhard
Meissner, 22 pp.

GERMAN, par, Chemische Technik, Vol XI, No 11,
1960, pp 636-644.

JPRS 11476

EEur -- Germany

178,254

Econ

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Testing of Rhenium-Containing Catalysts
for Moderate and High-Pressure Hydro-
genation of Products From the Process-
ing of Lignite Tars, by H. Lueder.
CZECH, per, Chemische Technik, Vol 12,
No 1, 1960, pp 16-22
NTC 72-11452-07A

June 72

The Production of Radioactive Isotopes, by
Peter Knoll, 14 pp.
GERMAN, per, Chem Tech (Leipzig, No 12, 1960,
pp 25-28
AEC/ORNL-Tr-2227

Sci/Ph y
May 70

405,715

SETTER

(NY-1005)

Production and Processing of Ethylene and
Propylene, by Eberhard Richter, 11 pp.

GERMAN, par, Chemische Technik, Vol XII, No 2,
1960, Berlin, pp 49-54.

JPRS 5262

EUR - GERMANY

Econ - Manufacturing

Aug 60

123,029

Nature and Constituents of Brown-Coal, High-
Temperature Tar, by I. E. Leibnitz, E. Gundermann.

GERMAN, per, Chem Tech, Vol XII, No 2, 1960,
pp 64-70.

Dept of Interior
Tr No 1682

Sci

Jan 623

Diagramme de Mac Cabe-Thiele Pour la Separation
des Isotopes. Formule Generale pour le Calcul
du Nombre de Plateaux d'une Colonne d'Echange,
by M. Dietze, S. Pilz.

GERMAN to FRENCH, per, Chem Tech, Vol XII,
No 2, 1960, pp 81-87. 9207199

Reverse Translation
CEA No A-1268

Sci
May 63

Cerchez, Vasill and Radulescu, Tuda.
DISPERSION OF METALLIC HYDROXIDES IN MIN-
ERAL OILS AND THEIR DETERGENT PROPERTIES.
[1961] [5]p. 5 refs.
Order from SLA \$1.10 61-20745

Trans. of Chem[ische] Tech[nik] (East Germany) 1960,
v. 12, no. 4, p. 187-188.

DESCRIPTORS: *Detergents, Preparation, Materials,
*Mineral oils, Oils, *Metallic compounds, *Hydrox-
ides, Colloids, Physical properties.

(Chemistry--Physical, TT, v. 7, no. 2)

61-20745

I. Cerchez, V.
II. Radulescu, T.

Office of Technical Services

Contribution on the Determination of Impurities
and Adulterants in Titanium (IV) Chloride
and Titanium White, by Z. Rezac.
GERMAN, per, Chemische Technik, vol. 12,
no. 7, 1960, p. 409-412.
NTC 71-12760-07B

SETEE

(NY-4125)

Standardization, by W. Mueller, 5 pp.

GERMAN, per, Chemische Technik, Vol XII, No 4,
1960, Leipzig, pp 227, 228.

JPRS 5578

EEur - Germany

Econ - Chemical

Oct 60

127,234

(NY-5277)

Statistics on Production of Czechoslovakian Chemical Industry, 1953-1958, ~~1958~~, 2pp

GERMAN, per, Chemische Technik, Vol XII. No 5, May 1960, p 291.

*JPRS

~~CONFIDENTIAL~~

EEur - Germany

Econ - Chemical Industry Statistics

17 Oct 60

(NY-5277)

Achievements of the VVB Electrochemistry and
Plastics in 1959, by M. Friedrich, 6 pp.

GERMAN, per, Chemische Technik, Vol XII, No 5,
1960, pp 291-293.

JERS 74⁶1

REur - Germany

Econ

Jan 61

138,695

(NY-5050)

Development of the Chemical Industry in Czechoslovakia
in the Past Fifteen Years, 11 pp.

GERMAN, per, Chemische Technik, Vol XII, No 6,
1960, pp 305-308.

JPRS 7251

EEU - ~~SECRET~~ Czechoslovakia
Econ
Jan 61

135,987

(NY-5050)

Machinery and Apparatus for the Chemical Industry
at the Leipzig Spring Fair 1960, by Blankhaut,
20 pp.

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