

61-18835

Slejhar, Jiri.  
THE RIPENING OF VISCOSE. [1961] [43]p. 2 refs  
Order from S.L.O. 44. 60 61-18835

J. Slejhar. J

Trans. of ~~Chemistry~~ ~~Enzymol~~ (Czechoslovakia) 1953,  
v. 3[28] no. 7/8, p. 255-258; no. 9, p. 313-316;  
no. 10, p. 368-369.

DESCRIPTORS: \*Cellulose, Processing, Oxygen,  
Chemical reactions, Xanthic acids, Acids, Sulfides

Analysis of experimental facts hitherto known and original observations indicate that sulfidation of alkali cellulose takes place in two steps: (1) slowly-formed but stable xanthates of the sixth hydroxyl, capable of surviving even in a medium with a relatively low  $CS_2$  concentration, and (2) rapidly-formed but unstable xanthates on the second and third hydroxyls, which require high concentration of  $CS_2$  for their formation and (Chemistry--Organic, TT, v. 7, no. 4) (over)

Office of Technical Services

The Tower Method of Sulphuric Acid Production  
and Its Prospects, by Zdenek Neudorfl, 9 pp.  
UNCLASSIFIED

CHEMICAL, ~~IND~~, ~~Chemicky průmysl~~, Praha, Vol IV,  
No. 1, June 1954, pp 12-15, Encl to AFOIN 1A1-  
147-55, Feb 1955, CIA D 177382

AF 652/441

23,570

Scientific - Chemistry May 55 CTS/DEX

by Mr. Bialak, 9 pp. UNCLASSIFIED

CUNICH, Petr, Chemicky Průmysl, Vol IV, No 1, pp 15-19, No 2, pp 53-56, Real to 1/1-163-55, APOH.  
CIA D 1/1/1751

1954

AF 653311

Scientific - Chemistry  
May 55 CRIB

23,786

+

63-18256

Pech, J., Broulik, D., and Menalik, P.  
DETERMINATION OF SMALL QUANTITIES OF  
OXYGEN IN GASEOUS BUTADIENE. [1963] 6p. 6 refs  
Order from S.L.A. \$1. 10 63-18256

I. Pech, J.  
II. Broulik, D.  
III. Menalik, P.

Trans. of Chemistry Pruzayal (Czechoslovakia) 1954,  
v. 4(19) no. 5, p. 167-168.

DESCRIPTORS: \*Benzolene, Impurities, \*Oxygen,  
\*Gas analysis, \*Polarographic analysis, Lithium com-  
pounds, Chlorides, Methanol, Elastomers

A method was tested for polarographic determination  
of small quantities of oxygen (below 1 volume %) in  
gaseous butadiene. Standards with oxygen content be-  
low 10.00 % were used for this purpose. The standards  
were prepared by a partial bubbling of the gas to be  
analyzed through a 0.1 N polarographic solution of  
lithium chloride in methyl alcohol; the process was  
carried out in a closed system. It was found that this  
(Chemistry-Analytical, TT, v. 10, no. 11) (over)

Office of Technical Services

Dispatcher System in Directing the Production of a  
Chemical Plant in the USSR, by Ed. Milbauer,  
6 pp. UNCLASSIFIED

FRANZISAN, CZECH, per, Chemicky průmysl, Praha,  
Vol. IV, No. 5, May 1954, PP 104-105, Encl to  
Report No. IN 221-55, AFOSR-1A1, 22 Mar 1955.  
CIA ID 1591433

~~SECRET~~  
AF 696337

23,567

WISN  
WISN Czechoslovakia  
WISN

May 55 CTS/DEX

Phosphorus Insecticide -- A New and Effective  
Weapon in the Fight Against Agricultural Pests,  
19 pp. UNCLASSIFIED.

CHECH, per, Chem Průmysl, No Vol IV/29, No 7,  
1954, Prague, pp 243-248.

29393

G-2, OSUSA G-4143

Editor - NK Czechoslovakia  
Specialist  
Scientific - Chemistry

Apr 55 CTS/DEK

Changes of Breakdowns in the Chemical Industry,  
by J. Chroustovsky, 6 pp.

CZECH, per, Chemický průmysl, Prague, Vol IV,  
No 8, August 1954, p 308-311, Encl to AFOIN-  
1A1, IN-239-55. CIA D 206414.

AF 658038

BKUR - Czechoslovakia

Ind - Chemistry

Economic

*Industry 26,701*



Production of Electrolytic Black Manganese  
Oxide (BUNNIL) from Waste Lye from Manufacture  
of Hydroquinone, by D. Kulda.  
GERMAN, Chem. Průmysl, Vol 4, No 10,  
1954, pp 372-376.  
MLL Ref: 5828.4F (12877)

Sol-Chem  
Jan 69

372,646

Blechta, F.  
BY-PRODUCTS OF DDT MANUFACTURE AND  
THEIR UTILIZATION (Odpady Pri Vyrobe "DDT" a  
jejich Zpusobovani). [1961] 7p.  
Order from SLA \$11.10

62-10672

Trans. of Chemicky Průmysl (Czechoslovakia) 1954,  
v. 4(29) no. 10, p. 381-383.

DESCRIPTORS: \*DDT, Insecticides, Chemical  
Industry, Benzene, Chlorides, Hydrochloric acid,  
Sulfuric acid, Manufacturing methods.

(Engineering--Chemical, TT, v. 7, no. 11)

62-10672

F. Blechta, P.

Office of Technical Services

Sulphorepithalein Indicators, by O. Lemingov.

USUBH, per, Chemicky Průmysl, vol V, No 1, 1955,  
pp 7-12.

MLL M. 2935

Sci. - Chem

Dec 61

*177,580*

<p>Rathousky, Jiri. SILICONES. (Presented at the conference on Silicones, Lillese, 1954) by Jiri Calada. [1964] 17p (3 figs omitted) Order from SLA \$1.60 TT-64-16157</p> <p>Trans. of Chem. (city) Prumysl (Czechoslovakia) 1955, v. 3(20) no. 1, p. 24-27. Another trans. is available from K-H \$17.00 as K-H-2422C, 27p.</p>	<p>TT-64-16157</p> <p>I. Rathousky, J. II. Title: Conference...</p> <p>Office of Technical Services</p>
---	---

(Materials-Plastics, TT, v. 12, no. 4)

SILICONES, by Jiri Rathousky, 19 pp. (AF 671685).

Full text

CHURCH, par, Chemicky Průmysl, Vol V, No 1, Jan 1955,  
pp 24-33.

ATIC F-78 8766/III

3882 c

44, 439

Sci - Chemistry  
Feb 1957 CTS/DMK

(PDB 25976)

Conference on Silicones, by VZ, 7 pp.

CHECHL, no per, Chemicky Průmysl, Vol V, No 1,  
Prague, Jan 1955, pp 30, 31.

CIA/FID U-8041

liber - Czechoslovakia  
sci - Chemistry, silicones

39,725

Modern Construction Materials in the Chemical Industry, by Richard Mader, 12 pp. (AF 674986).

CZAKM, part, Chemicky Průmysl, Prague, Vol V (XXV), No 2 (162), 1955, pp 67-71.

AFIC F-TB-9042/III

Sci - Chemistry  
Economic

46, 477  
1954 10 16 11

<p>Novosil, Z  A MONOGRAM FOR DETERMINING CHEMICAL  EQUILIBRIUM IN THE SYSTEM ETHYLENE-ETHA-  NOLE-WATER. [1962] 8p.  Order from ATS 40.75</p>	<p>62-34270  I. Novosil, Z.  II. ATS-35P62C  III. Associated Technical  Services, Inc., East  Orange, N. J.</p>
<p>Trans. of Chem[icky] Prumysl (Czechoslovakia) 1955,  v. 5(31) no. 1, p. 72-74.</p>	
<p>DESCRIPTORS: Monographs. *Chemical equilibrium.  *Ethylene, *Ethylene, Water.</p>	
<p>(Chemistry--Physical, TT, v. 8, no. 12)</p>	<p>Office of Technical Services</p>



V  
Attack of Plastic Materials by Holes and Possibilities of Protection, by B. Dolenzul, 6 pp. (AF 6749(6))

CZECH, prof., Chemicky Průmysl, Vol V(XXX), No 2 (182), 1955, pp 60-62.

ATIC F-18-9042/III

Sci. + Chemistry

170476  
16-1  
46, 476

Current Trends in the Production of Synthetic  
Fertilizers and Plant Pesticides in the USSR,  
by Eng. Dr. S. Kasera, 17 pp.

CEKON, no par, Chemistry Progress, Vol V, No 3,  
Prague, Mar 1955, pp 97-101.

CIA/FID UT-7158 (R-484)

Sci - Chemistry

34, 221

DO NOT PUT IN CTS

5-107

Automatic Regulation of the Neutralization  
Process in the Production of Ammonium Nitrate.

СЕНДЕР, no per. *Chemicky Průmysl*. Issue 1,  
1955. (March 1955)

Contribution to the Control of the Degree of  
Washing of Photographic Emulsions, by L. Svcatka,  
17 pp.

CHEMIE, Prir. Chem Průmysl, Vol V, No 6, 1955,  
pp 239-243.

CIA/TDD X-2637

54,924

Sci - Physics  
Nov 57

Calculation of Viscosity of Organic  
Liquids, by J. Kotisek, J. Marek, 6 pp.  
Czech, per, Chemicky Prmysl, Vol V,  
No 30, 1955, pp 330-332.  
SLA TT-66-11567

Sci - Chemistry  
Sept 66

305,657

The Determination of Moisture in Bases, by  
J. Pech, S. Kodak, and M. Wittova.

CHEM, per, Chem Prmysl, Vol V, No 30, 1955,  
pp 219.

Assoc Tech Div 25J/LC

Sci

Jul 50

69, 790

69, 790

A low-Frequency Electrodeless Meter for Measuring  
the Conductivity of Liquids, by M. Salamon,  
P. Svitek.

CZECH, par, Chemicky Průmysl, Vol VI, No 1, 1956,  
pp 10-14.

6376-1A-23  
Assoc Tech Sv  
# BJ-508  
\$13.80 (\$2.35)

Sol - Electronics  
Apr 1957 CMS/Box

46,726

Production of Nitrous Oxide by Continuous Decomposition of Ammonium Nitrate, by Jaroslav Sojka.

~~SECRET~~  
Soviet Union, per, Chem Prumysl, Vol VI, (31), No 2, 1956, pp 15-19.

Assoc Tech Sv  
\$19.20 Tr CJ-804

Sci - Chemistry  
Aug 57

51,760



Chelatometric Determination of Lead in  
Explosives, by J. Vrestal, A. Jilek, J.  
Bavir.

Chem. Prům., per, Chem. Prům., Vol. VI, No 2, 1956,  
pp 50-52. CIA 9004675

TIL No 4775

Sci - Engineering

48,680

ntc

1985	VS	NIU	P-10-012	70-21010	< >
1985	VS	PHI		70-21007	< >
1985	VS	NT	P-300-349	70-21011	< >
1985	VS	P-22-230		70-21013	< >
1985	VS	P-302-347		70-21014	< >
1985	VS	NP	P-00-55	70-21012	< >

R-4245-17/a

A Laboratory Polarographical Sulphur Dioxide  
Recorder, by Jaroslav Gottfried.

CZECH, PER, Chemicky Prumysl, Vol VI, No 31,  
1950, pp 143-145.

\*JPRS/Army Biol Lab

Sci -Chem  
July 64

62-26993

Parowski, R.  
INFLUENCE DES ACTIVATEURS ANORGANIQUES  
SUR LE DEGRE DE VULCANISATION DES  
MELANGES DE CAOUTCHOUC (Influence of Inorganic  
Activators on the Degree of Vulcanization of Rubber  
Compounds). 17p 1 ref  
Order from QTS, ITC or CNRS \$0.80 62-26993

I. Parowski, R.  
II. Centre National de la  
Recherche Scientifique

Trans. in English of Chemický Průmysl (Czechoslovakia)  
1956 (v. 6(81)) no. 3, p. 110-114.

DESCRIPTORS: \*Rubber, \*Vulcanization, Catalysts,  
Carbon Black, Mixtures, Magnesium, Zinc, Oxides.

Chemical Abstracts, RUBBER, TT, v. 10, no. 10

Office of Technical Services

Methyl Analogs of Chlorthion, by J. Drabek,  
J. Palitan.

Chem, per, Chem Pruzgal, Vol VI/XXXI, No 7,  
1966, pp 293.

ATI CJ-4036

Sci-Chem  
Dec 63

244, 899

Effect of Impurities on the Activity of Vinylacetate,  
by P. Gregor.  
POLISH, per, Chemically Prunys), vol. 7, p. 505-  
508, 1957.  
NTC 71-11122-07C

August 71

61 12607

Drahny, M.  
STOICHIOMETRY AND ENERGETICS OF THE  
CRACKING OF NATURAL GAS IN AN ELECTRIC  
ARC. [1960] 11p.  
Order from ATS \$14.10                      ATS-85M47C

Trans. of Chem(icky) Prumysl (Czechoslovakia) 1956,  
v. 6(31) no. 10; p. 411-415

- 1. Electric arcs--Applications
- 2. Gases--Processing
- 3. Title: Cracking of gas
- I. Drahny, M.
- II. ATS-85M47C
- III. Associated Technical Services, Inc., East Orange, N. J.

*ATS-CJ-2894*  
*NTC 70-21010*

Office of Technical Services

(Engineering--Chemical, TE, v. 5, no. 7)

Determination of Moisture Content in Gases, by  
M. Dinglir, 5 pp.

GERMAN, par, Chem Abstracts, Vol VI, 1956,  
pp 426, 427.

ABC ~~100~~ ICRL-T/C-110

Sci - Chem  
May 60

117,467



61-12760

Drahny, M.  
KINETICS OF CRACKING OF NATURAL GAS IN AN  
ELECTRIC ARC. (1960) 13p.  
Order from ATS \$15.25

ATS-86M47C

Trans. of Chem. [?], Pragma (Czechoslovakia) 1956,  
v. 6(31), no. 12, pp. 490-496.

- 1. Natural gas--Production
- 2. Electric arcs--Applications
- 3. Hydrocarbons--  
Decomposition

- I. Drahny, M.
- II. TS-86M47C
- III. Associated Technical  
Services, Inc., East  
Orange, N. J.

151521

ATS-CJ-2893

Office of Technical Services

(Engineering--Chemical, TT, v. 5, no. 8)

The Retarding Effect of Certain Substances  
on the Rate of Butadiene-Acrylonitrile  
Emulsion Copolymerization, by V. Svoboda.  
CZECU, per, Chemicky Prunysl, Vol 7, No 4,  
1957, pp 209-212.  
NTC 69-11434-07C

Sci-Chem  
Jly 69

387,037

Wichnicki, G. and Zelinger, J.  
A METHOD OF PRODUCING LINEAR DENSITY GRADIENTS AND THEIR USE IN THE STUDY OF POLYMERIZATION. [1964] 7p.  
Order form ATS 912.00

ATS-04B5C

Trnava, J. Chem[ický] Průmysl (Czechoslovakia) 1957,  
v. 7(10) no. 5, p. 255-257.

DESCRIPTORS: \*Polymerization, Density.

(Chemistry - Organic, TT, v. 9, no. 7)

7-11-202\*

- I. Wichnicki, G.
- II. Zelinger, J.
- III. ATS 04B5C
- IV. Associated Technical Services, Inc., East Orange, N. J.

AT 07-3266

Office of Technical Services

Fartuzek, B. and Musicka, V.  
AZO DYES DERIVED FROM LUMENOL. 7 Dec 61  
[U]p. 9 refs.  
Order from S. A. \$4. 10

62-10691

Trans. of (Czechoslovak) Chemistry (Czechoslovakia) 1957,  
v. 7[32] p. 151-154.

DISSEMINATORS \*Dyes. \*Azo compounds. Amino com-  
pounds. Hydroxyls.

Some azo dyes derived from 5-amino-2-phthalhydrazide  
(Lumenol) were prepared in the laboratory; their  
properties and some exploratory experiments investi-  
gating the possibility of their practical applications  
are described. (Author)

(Chemistry: Organic, TT, v. 8, no. 7)

62-10691

I. Fartuzek, B.  
II. Musicka, V.

Office of Technical Services

The Preparation of Cyclohexylamine by the Hydrogenation of Aniline, by A. I. Kuznetsov, et al.

CHEMIE, pt. 1, Chem. Průmysl, Vol. VII, No. 11, 1957, pp. 577-582.

Assoc. Tech. Serv. CS-1486  
" " " " 70313C

Sci - Chem

Apr 59

85,612

Systematic Evaluation of Higher Phenolic Fractions  
of Wood Tar from the Standpoint of Phenol-  
Formaldehyde Resin Production, by V. Vorobiev,  
3 pp.

Система, пер., Химический Прогресс, Vol VIII, No 1,  
1968, pp 50, 51.

ATS-07L310  
ATS-CT-1930

Doc - Chem  
Doc 99  
Vol 8, pp 4

102,800

Summary of Various Articles:

Petroleum Industry, U.S.S.R.

CHENCKI, par, Chenicky Pruzysl, No 3, 1966;

AF 1287317

Jan 69

61-16001

Felix, Milan and Blaha, Karel.  
SOME CAUSES OF THE OCCURRENCE OF "SPLIN-  
TERS" IN VISCOSE STAPLE FIBER. [1961] 22p.

4 refs.

Order from SLA \$2.60

61-16001

I. Splinters  
I. Felix, M.  
II. Blaha, K.

Trans. of Chemistry Průmysl (Czechoslovakia) 1958.  
v. 8(3) [no. 3] p. 137-143.

DESCRIPTORS: Cellulose. \*Synthetic fibers. Production.  
Chemical impurities.

180516

The procedure of applying statistical methods to the search for and removal of the causes of defects in the production process, as described in this paper, can be used successfully for all types of "unmeasurable" production processes in the chemical industry. (Author)

Office of Technical Services

DOCUMENTS--Textiles, etc. v. 6, no. 3



Reagents for the synthesis of Annonin, by  
Kishimoto, W. Mitsui.

GENEVA, SWITZERLAND, *Chem. Pharm. J.*, Vol. VIII/XXXIII,  
No. 5, 1958, pp. 229-233.

ATS CJ-1973

Set - Chem

Jan 60

105,763

Contributions to the Problem of Determining the  
Molecular Weights of Aminoplasts, by K. Dusek,  
7 pp.

Chem. pap., Chemistry Průmysl, Vol VIII, [33],  
No 6, 1958, pp 321-328.

Acres Tech Surv 9125C  
9.75

Sci. Chem  
OSD I, 4  
Apr 59

85,266

REF ID: A66008

Janaček, J.  
DE "REPRODUCTIBILITEIT" VAN DE RESULTATEN,  
VASTGESTELD IN DE LABORATORIA VOOR RUBBER-  
ONDERZOEK (Reproducibility of Results of Tests in  
the Rubber Laboratory), 17p. MWL: 920.  
(Text in Dutch).  
Order from OTS or ETC \$1.85 61-17568

Trans. of Chemický Průmysl (Czechoslovakia) 1958,  
v. 8, p. 494-497.

DESCRIPTORS: \*Rubber, Tests, Analysis.

61-17588

I. Janaček, J.  
II. MWL-920  
III. Stichting Moeilijk  
Toegankelijke Wetenschap-  
pelijke Literatuur

Office of Technical Services

Kratochvíl, P., Kupčík, F. and others.  
OXYDATION PAR L'ACIDE NITRIQUE DE MÉLANGES  
XYLÉNIKS Á LA PRESSION NORMALE (Nitric Acid  
Oxidation of Xylene Mixtures at Normal Pressure). 10p.  
17 refs. FX-819.  
Order from CITI, ETC or CNRS \$0.80 62-26436

Trans. in French of *Chemický Průmysl* (Czechoslovakia) 1968, v. 8(13), no. 9, p. 449-455.

DESCRIPTORS: Xylenes, Mixtures, Oxidation, Nitric acid.

(Chemistry--Organic, TT, v. 10, no. 7)

62-26436

- I. Kratochvíl, P.
- II. Kupčík, F.
- III. FX-819
- IV. Centre National de la Recherche Scientifique (France)

Office of Technical Services

Pasek, J. and Charuzova, L.  
FORMATION OF METHYLAL IN THE PRODUCTION OF FORMALDEHYDE. [1962] 5p.  
Order from ATS \$7.75                      ATS-72P61C

Trans. of Chem[icky] Prumysl (Czechoslovakia) 1958, v. 8(33) no. 9, pp. 455-457.

DESCRIPTORS: \*Methylal, \*Formaldehyde, Production

(Chemistry--Organic, TT, v. 8, no. 7)

62-22130

- I. Pasek, J.
- II. Charuzova, L.
- III. ATS-72P61C
- IV. Associated Technical Services, Inc., East Orange, N. J.

Office of Technical Services

Théorie de l'Agglomération de Sphères Particules, M.  
J. Luzzati.

CHEMIE, rev. Chimie Physique, Vol VIII, No 25, 1972,  
pp 280-283. 2289-13

FAEC

Sci  
Dec 61.

1972 NP Tr. 276

Lasek, F. and Kubecka, P.  
PROBLEMS IN PREPARATION OF ION EXCHANGERS  
BY PEARL CONDENSATION. 7 May 62 [13]p. (Fig.  
Order from SLA \$1.60)

63-14023

Trans. of (Chemical) Průmysl (Czechoslovakia) 1958,  
v. 8[33] p. 545-551.

DESCRIPTORS: \*Ion exchange resins, Preparation,  
Particles, Condensation reactions, Polymerization,  
\*Hydrodynamics, Equations.

The authors studied the influence of the experimental  
apparatus and physical conditions on the size of grains  
formed during suspension polycondensation in inert  
medium. The results were given mathematical formula-  
tion and compared with results of other authors. It  
was shown that the dependence of grain diameter on  
(Engineering-Chemical, T' v. 10, no. 6) (over)

63-14023

1. Title: Pearl condensation
2. ...

Office of Technical Services

Automatic Apparatus for Elementary Analysis, by  
F. Vojtech.

Chem. Průmysl, ~~Chem. Průmysl~~, Vol VIII, No 33, 1958,  
pp 633-636.

TIL/T5107

Sci - Chem

May 63

230,716



Polish Synthetic Rubber, 1 p. UNCL

CZECH, per, Chemický Průmysl, No 12, 1958, p 672.

AF 1255516

EEur - Poland  
Econ  
Mar 59

Pressureless Copolymerization of Ethylene with  
Propylene, by Rostislav Vilim, 8 p.

CZECH, pap., Chemicky Pruznal, 1959, Vol IX, No 2,  
pp 101-104.

SLA 59-20802

Sci  
Mar 60  
Vol 3, No 1.

110,878

Indeprome Determination in Reaction Mixtures,  
by M. Kabinova, 12 pp.

CHEMICH, per, Chemicky Pruzysl, Vol IX,  
1959, pp 160-164.

SLA 60-16,003

Uci  
Vol IV, No 3  
23 May 62

Estimation of Copper Admixture in Metallic  
Germanium by Activation Analysis, by  
Gottfried,

CZECH, per. Chemicky Průmysl, Vol IX,  
No 4, April 1959, pp 179-182.

\*ACB J-0131  
ID 2:04032066

Sci-chem  
Jun 66

Chloromethylation of a Copolymer of Styrene  
with Divinylbenzene, by F. Jurska.  
Czech, par, Chemicky Průmysl, Vol 9, 1959,  
pp 269-271.  
NIC-69-1/209-07A

Sci-Chem  
Feb 70

403,011

TT-64-12754

Jelinek, J.  
ALKYLATION OF PYROCATECHOL BY ISOBUTYLENE  
AND DIISOBUTYLENE. [1964] 11p  
Order from ATS #14.25      ATS-73R74C

Trans. of Chem[ic]k[al] Pr[om]ysl (Czechoslovakia) 1959,  
v. 9(34), no. 8, p. 398-402.

I. Jelinek, J.  
II. ATS-73R74C  
III. Associated Technical  
Services, Inc.,  
East Orange, N. J.

(Chemistry--Organic, TT, v. 11, no. 12)

Office of Technical Services

SIFRE

(20-3552)

The Development and Prospects for Plastics in  
Czechoslovakia, by Jaroslav Hnidek, |

CKHCH, per, Chemicky Prumysl, Vol X, No 1, Prague,  
1960, pp 41-43.

\*JPRS

HEur - Czechoslovakia

Hcon - Chemical industry

Mar 60

SETEE

(NY-3907)

Past and Future of Petroleum Chemistry in Czechoslovakia,  
by Vladimir Vicha, 7 pp. FOR OFFICIAL USE ONLY

CZECH, per, Chemicky Prumysl, Vol X, No 2, 1960,  
pp 57-59.

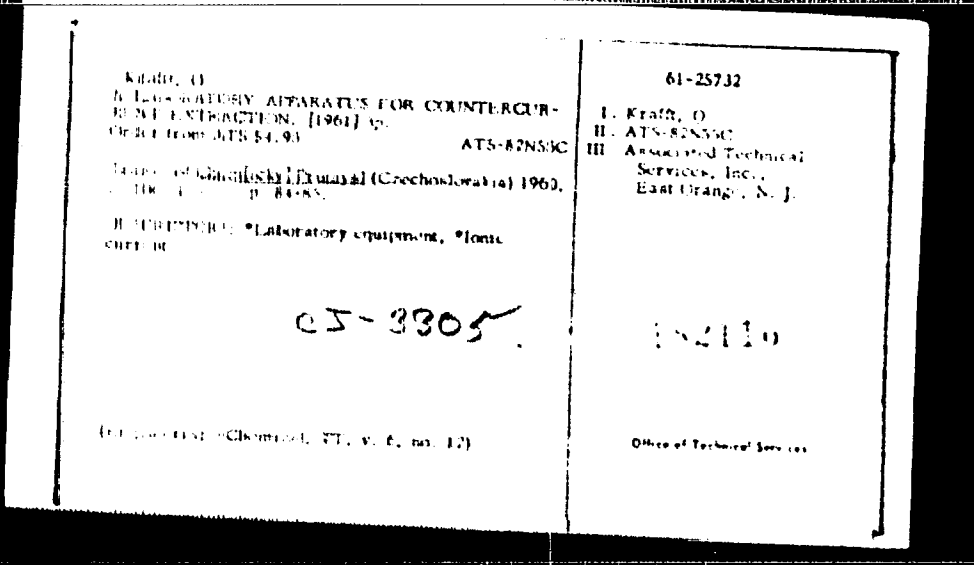
JPRS 2967

EBar - Czechoslovakia  
Econ - Chemical Industry  
Jul 60

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119,967





OUR

(NY-3923)

Development of Organic Chemistry in Czechoslovakia  
in the Third Five-Year Plan, by Jiri Sedlacek, 2 pp.  
FOR OFFICIAL USE ONLY

CZECH, Chemicky Prumysl, Vol X (XXXV), No 3,  
1960, Prague, pp 113-115.

JPRS 5139

EStar - Czechoslovakia

Econ - Chem Indus

Aug 60

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122,917

Preparation of Concentrated Synthetic  
Lactone, by Antoni Ryzanek, 10 pp.

CHIMIA, par, Chimicky Pruzysl, Vol I,  
1960, pp 100-102.

Chemical Translating  
Service-155

Sol  
Vol IV, No 9,  
Mar 62

187, 135

TF-64-20875

Stabilization Properties of Cellulose Nitrate,  
by P. Krejci, 9 pp. UNCL

CZECH, per, Chemicky Průmysl, No 3, 1960,  
pp 183-186.

ACR1 H-8305  
ID 2161157

Sci - Chem  
Mar 61.

143,743

ORR

(19-143)

Development of Chemical Fiber Production in  
Czechoslovakia in 1945-1960, by Jiri Brandejs,  
5 pp. FOR OFFICIAL USE ONLY

CZECH, per, Chemicky Průmysl, Vol X (XXV),  
No 3, 1960, Prague, pp 153, 154.

JPRS 5139

HEur - Czechoslovakia  
Hobn - Chem Indus  
Aug 60

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122,910

Holab, J.  
CONTRIBUTION TO THE THEORY OF CONSTRUCTION OF CORDS (Príspevek k Teorii Konstruktce Kordov) [1962] [22]p. (Foreign text included) 5 refs.  
Order from SLA \$3.60 62-14265

J. Holab, J.

Trans. of Chemický Průmysl (Czechoslovakia) 1960  
v. 10(55) no. 3, p. 155-161.

DESCRIPTORS: \*Tires, \*Cordage, Threads, Synthetic fibers, Mathematical analysis, Plastic flow.

A mathematical analysis is made of the relationship between the spatial position of the individual fibrils, their twist, the tension, and the resulting characteristic of the cord thread. Results show that the fibril has a variable tension, which tends to even out within the length of 1 twist except for the friction among the individual fibrils. In the yarn the outer fibers show a (Machinery- Manufacturing, TT, v. 8, no. 3) (over)

Office of Technical Services

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(DC-3986).

Development and Perspectives of the Inorganic  
Chemical Industry in Czechoslovakia, by Jiri  
Forman, 11 pp. FOR OFFICIAL USE ONLY

CZECH, per, Chemicky Prmysl, Vol X, No 4, 1960,  
pp 169-173.

JPRS 3757

EUR - Czechoslovakia  
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Jiro, P.  
CONTRIBUTION À L'ÉVALUATION DE L'EFFET  
DES CATALYSEURS DE VANADIUM DANS LA PRO-  
DUCTION D'ACIDE SULFURIQUE (Evaluation of the  
Activity of Vanadium Catalysts for Sulfuric Acid Pro-  
duction). 14p. 6 ill. fr. EX-818.  
Order from ODS, ETC or CNRS 40,80 62-26435

Trans. in English of Chemicals Průmysl (Czechoslo-  
vakia) 1962 (v. 10(35)) no. 4, p. 180-183.

DESCRIPTORS: \*Catalysts, \*Sulfuric acid, Production,  
Experimental data, \*Vanadium, Catalysts.

(Chemistry)--Inorganic, TT, v. 10, no. 8)

I. Jiro, P.  
II. EX-818  
III. Centre National de la  
Recherche Scientifique  
(France)

Office of Technical Services



Klimová, E. and Schejbal, J.  
TRANSFORMATIONS DES GAZ RÉSIDUELS DE LA  
PRODUCTION DE L'ACIDE SULFURIQUE EN PYRO-  
SULFITE DE SODIUM (Working up of Terminal Gases  
from Sulfuric Acid Production into Sodium Pyrosulfite),  
bp. FN-892.  
Order from OTN, ETC or CNRS \$0.80 62-26437

Trans. II. Tržebň of Chemický Průmysl (Czechoslo-  
vakia) 1983, v. 10 [85] no. 4, p. 190-192.

DESCRIPTORS: \*Sulfuric acid, Production, Waste  
gases, \*Sodium compounds, Sulfites.

(Chemistry)--Inorganic, TT, v. 10, no. 8)

62-26437

- I. Klimová, E.
- II. Schejbal, J.
- III. FN-820
- IV. Centre National de la  
Recherche Scientifique  
(France)

Office of Technical Services

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(DC-3986).

Development of Paint Production During the  
Third Five Year Plan, by Jaroslav Valis, 4 pp.  
FOR OFFICIAL USE ONLY

CZECH, per, Chemicky Průmysl, Vol X, No 4, 1960, pp 209-211.

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Modern Trends in the Production of Combined  
Fertilizers, by Miroslav Cerny, Jan Cerny, 2 pp.  
FOR OFFICIAL USE ONLY

CZDSH, par, Chemicky Prumysl, Vol X(XXXV), No 5,  
1960, pp 230, 231.

JPRS 3699

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Econ - Chem indus.

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Catalysts for the Preparation of Urea-  
Formaldehyde Binding Compounds, by R. Kveton,  
F. Hancusalk.  
CZECH, part Chem. Průmysl, Vol 10, No 6,  
1960, pp 331-334.  
ATS C-49311

Sed-Stat.  
Foh 60

JPRS 6107

Conference on Investment Construction in Chemical  
Industry, by Josef Kaplicky, Karel Ujhazy, 5 pp.  
FOR OFFICIAL USE ONLY

CHEMIE, per, Chemicky Průmysl, Vol X, No 7, Prague,  
1960, pp 355, 356.

JPRS 6107

Libar - Czechoslovakia

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Oct 60

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Azmorsky, Zdenek and Jusko, Gustav.  
CRYSTALLIZATION KINETICS OF THE POLYETHYLENE DERIVATIVE OF DEHYDROMUCIC ACID. [1961] 1. Azmorsky, Z.  
Sp. (9 liga chemie) 3 refs. H. Jusko, G.  
Order from SGA, R. 10 62-10124

Trans. of Chemicky Průmysl (Czechoslovakia) 1960  
[v. 10(35)] no. 9, p. 492-495.

DESCRIPTORS: \*Mucic acid, Acids, \*Polymers, Ethylene derivative, Crystallization, Temperature, Esters, Polyalite.

The kinetics of crystallization of the polyethylene derivative of dehydromucic acid was investigated in the temperature range from 140 to 180°C. The constant  $k_1$  in Avrami's equation reaches values from  $10^{-4}$  to  $10^{-6}$ . By comparing the rate of crystallization of (Materials-Plastics, TT, v. 7, no. 9) (over)

Office of Technical Services

Conditioned-Bed Drying, by Joftech Vanecek,  
Jaroslav Markvart, et al., 11 pp.

CHENNAI, per, Chem. Průmysl, Vol X(35), No 10, 1960,  
pp 541-545, 9207695.

AEC-Tr-5650  
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Sol - Chem  
Jun 63

231,423

(S-100)

Development of the Chemical Industry RD During  
the Second Five-Year Plan, by Frantisek Plouh.  
LO 17. OFFICIAL USE ONLY

CZECH, per, Chemicky Prumysl, Vol X, No 12,  
1960, pp 617-620.

JPRS 11505

RRR - Czechoslovakia  
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Jun 62

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02-34293

Dokl. J. K. Chemistry, P. and others

1961, v. 1, no. 1, p. 1-10  
1961, v. 1, no. 2, p. 1-10  
1961, v. 1, no. 3, p. 1-10

1961, v. 1, no. 4, p. 1-10  
1961, v. 1, no. 5, p. 1-10

INDEX SUBJECTS: \*Proposed, \*Catalization, Reactors, \*All-1 radicals, \*Chemistry, \*High temperature research, \*Chemical engineering.

I. Dokl. J.  
II. K. L. Chemistry, P.  
III. International Chemical  
Engineering, New York

(Engineering-Chemical, TT, v. 8, no. 10)

Office of Technical Services

62-17306

Ruzickova, J., Pokorny, S., and Mlesiva, J.  
PIGMENTATION OF POLYESTER VARNISHES.  
(1962) 10p.  
Order from ATS #14-45                      ATS-48P60C

Trans. of Chem[ist] Prumysl (Czechoslovakia) 1961,  
v. 11(66), no. 6, p. 322-323.

DESCRIPTORS: Polymers, Resins, \*Varnishes,  
\*Pigments.

- I. Ruzickova, J.
- II. Pokorny, S.
- III. Mlesiva, J.
- IV. ATS-48P60C
- V. Associated Technical Services, Inc.,  
East Orange, N. J.

(Materials - Finishes, TT, v. 8, no. 2)

Office of Technical Services

Repas, M., Strelzka, J., and Rendko, T.  
SYNTHESIS OF GLYCOL ETHERS FROM ETHYLENE  
OXIDE AND ALCOHOL. [1963] 8p  
Order from ATS \$12.50

ATS-120735K

Trans. of Chemical Průmysl (Czechoslovakia) 1961,  
v. 11(30) no. 7, pp. 345-348.

DESCRIPTORS \*Glycols, Ethers, Synthesis (Chemistry),  
\*Ethylene oxide, \*Ethanol, \*Solvents, Alcohols.

TT-64-12073

- I. Title: Glycol ethers
- II. Repas, M.
- III. Strelzka, J.
- IV. Rendko, T.
- V. ATS-120735K
- VI. Associated Technical Services, Inc., East Orange, N. J.

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

Office of Technical Services

Auto-Oxidation of Chlorotrifluoroethylene,  
by D. Ambros  
ZESTR, per, Chemicky Průmysl, Vol 11, 1961,  
pp 60-65  
NIT 71-15118-07C

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LR74-3037 Uncl.

ALKALINE POLYMERIZATION OF CAPROLACTAM. V.  
THE USE OF ALKALINE POLYMERIZATION FOR THE  
PRODUCTION OF MASSIVE OBJECTS FROM HIGH-MOLEC-  
ULAR POLY- $\epsilon$ -CAPROAMIDE. Kralicek, J.; Sebenda, J.;  
Zadak, Z.; Wichterle, O. Translated by B. K. Bowes  
(Atomic Energy Research Establishment, Harwell, Eng.)  
from Chem. Prumysl; 11: No. 7, 377-81(1961). 16p.

chemistry (organic); translations

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Kalař, S. and Fogtanc, M.  
INFLUENCE OF NITROPIRIS ON VISCOSE GEL FOR-  
MATION. Nov 68 [13]p. 13 refs.  
Order from SLA \$1.60

62-20422

Trans. of Chemistry Pragma (Czechoslovakia) 1961,  
v. 11(36), no. 8, pp. 433-438.

DESCRIPTORS: \*Cellulose, \*Gels, Castor oil, Ethylene  
oxide, Free radical action, Alkyl radicals, \*Methyl radicals,  
\*Hexyl radicals, \*Amines, \*Polymers, \*Ethylenes,  
\*Glycols, Sodium compounds, Sulfates, Carbon com-  
pounds, Sulfides, Zinc compounds, Latices, Solubility,  
Chemical precipitation, Neutralization, \*Filaments.

The action of  $\text{Na}_2\text{O}_2$  on the solubility in alkaline,  
neutral and acid media of some modifiers of the poly-  
ethylene glycol type and N-methylcyclohexyl amine was  
studied. Their solubility upon reacting with  $\text{CS}_2$  was  
(Chemistry-Physical, TT, v. 10, no. 11) (over)

62-20422

I. Title: Sperm oil  
I. Kalař, S.  
II. Fogtanc, M.

Office of Technical Services

Determination of the Swelling Capacity  
of Ion-Exchange Matrices Based on  
Styrene-divinylbenzene Copolymers, by  
K. Danek, J. Sidi, et al., 19p.  
Czechoslovak Chemistry Abstracts, Vol 11(36),  
No 8, 1961, pp 439-454.  
CSIR-Dr.26)

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333, 655

(DC-5965)

Valorisation of Low-Temperature Brown Coal of  
Mont. Tarn, by Rudolf Kubicka, 16 pp. GOVERNMENT  
USII (DRLY  
CZICH, part, Chemicky Průmysl, Vol 11, No. 9,  
Sept. 1961, pp 449-456.

JPLS 12690

EUR-Credit  
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(DC-5965)

Creation of Optimum Conditions for Posa  
Absorption of Sulfur Tricocide, by Vlastimil  
Visek, Václav Vavra, and Miloslav Stary, 5 pp.  
GOVERNMENT USE ONLY

CZICH, part, Chemický Průmysl, Vol 11, No. 9,  
Sept. 1961, pp 457-461.

JPRS 12690

HEAR-Czechia  
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(DC-5965)

Partial Methanol Esterification of Silicon  
Tetrachloride and Phosphorous Chloride, by  
Ivo Miesner, 5 pp. GOVERNMENT USE ONLY

CZECH, per, Chemicky Průmysl, Vol 11, No. 9,  
Sept 1961, pp 461-465.

JFES 12690

EBur-Czech  
Ecm  
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*186, 993*

(DC-5985)

The Statistical Acceptance Control (Acceptance Sampling in Continual Chemical Production, by Miloslav Lescaric and Milan Felix, 12 pp.  
GOVERNMENT USE ONLY

CZECH, per, Chemicky Průmysl, Vol 11, No. 9, Sept 1961, pp 465-469.

JPRS 12690

Ribar-Czech  
Edon  
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(D-5-6)

Heat Resistance of Polyester Glass Laminates,  
by Václav Hilvar, 5 pp. GOVERNMENT USE ONLY

CZECH, per, Chemický Průmysl, Vol 11, No. 9,  
Sept 1961, pp 493-497.

JPRS 12690

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Tichý, V., Dušek, R., and Moudry, V.  
PREPARATION OF METHYLPHENYLDIMETHOXYSILOXANE  
BY A SINGLE-STEP GRIGNARD SYNTHESIS. July 62  
[9p. 66 refs.]

Order from ICE in v. 2, no. 3, \$15.00/year

Trans. of Uchenykh Prumysl (Czechoslovakia) 1961  
No. 17 (6) (1961) p. 509ff.

DESCRIPTORS: \*Ethers. Metal-organic. Phenyl radi-  
cals. Ethyl radicals. Synthesis. Polymers. \*Metal-  
organic compounds. Lubricants. Synthetic rubber.  
\*Grignard reactions.

(Engineering-Chemical, TT, v. 9, no. 2)

I. Tichý, V.  
II. Dušek, R.  
III. Moudry, V.  
IV. International Chemical  
Engineering, New York

Office of Technical Services

Grubisic, O., Ralek, M., and Jirv, P.  
PREPARATION AND PROPERTIES OF MOLECULAR  
SIEVES OF THE A TYPE. [1963] 7p. 17 refs.  
Order from SLA \$1.10 63-14396

Trans. of Chemicki Prumysl (Czechoslovakia)  
1963, v. 11[56][no. 10] p. 521-523.

DESCRIPTORS: \*Clayminerals, Molecules, \*Absorbents,  
Synthesis, \*Molecular structure, Crystallization, Ions,  
Ion exchange, Material separation, \*Purification, Ion  
exchange, Absorbents.

The present article relates the results of research on the  
preparation of molecular sieves A, B A, 4 A, and 5 A, on the  
testing of their properties. Detailed instructions are  
given which will permit other researchers to produce,  
with simple equipment, molecular sieves equal in  
quality to similar foreign products. Possibilities of  
industrial production of molecular sieves discussed.  
(Author)

63-14396

I. Grubisic, O.  
II. Ralek, M.  
III. Jirv, P.

(Engineering - Chemical, VI,  
v. 10, no. 4)  
Office of Technical Services

(E-5905)

Contributions of NBS to the Chemical Industry,  
pp 9 pp. GOVERNMENT USE ONLY

CZECH, pp. Chemistry Průmysl, Vol XI (36),  
No 10, 1961, pp 528, 529.

JPRS 12699

IBB - Czech  
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(S-550)

On Production and Research Concerning  
Luminescent Materials, by Prantsek Zeloudak,  
5 pp. GOVERNMENT USE ONLY

СВЕЩЕ, жур. ~~Химический~~ Химический Прогресс,  
Том XI (1961), No 10, 1961, p 533.

JPRS ~~1961~~ 12699

IME - CHEM  
Hema  
Mar 62

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Report on the Octava Collection of  
1961, by Miroslav Cerny, Zdenek Cizinsky,  
120 pp. GOVERNMENT USE ONLY

CZECH, 1961, Chemicky Průmysl, Vol XI/XXVI,  
No 11, 1961, pp 589-591.

JPRS 12699

IF/Sec -Class A  
Veritas  
Mar 62

183,518

Identification of Crude Polymers by Gas-  
Liquid Chromatography of the Products of  
Their Thermal Degradation, by O. Hejsak.

CHEMIST, por, ~~Chemische~~ Průmysl, No 11,  
1971, pp. 504-507.

ATS 8K-3830

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Duc 53

244, 875

Klocovsky, P., Haspra, J., and Dukyj, J.  
A CYCLONE AS A HEAT EXCHANGER. Apr 62,  
4p. 4 refs.  
Order from ICE in v. 2, no. 2, \$15.00/year

Trans. of Chemicky Průmysl (Czechoslovakia) 1961  
[v. 11 (36)] no. 11, p. 634ff.

DESCRIPTORS: \*Chemical engineering, \*Cyclone  
furnaces, \*Heat exchangers, Gas flow, Thermal  
conductivity.

(Engineering, Chemical, TI, v. 8, no. 11)

62-34340

- I. Klocovsky, P.
- II. Haspra, J.
- III. Dukyj, J.
- IV. International Chemical  
Engineering, New York

Office of Technical Services