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Vol XI, No 6

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by E. A. Turov, 5 pp.

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63-14468

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Rezonansnogo Poglosheniya Vysokochastotnogo Elektro-  
magnitnogo Polya v Ferromagnitnykh Veshchestvakh  
(Ferromagnetic Resonance: The Phenomenon of  
Resonance Absorption of a High-Frequency Electromag-  
netic Field in Ferromagnetic Substances)] ed. by S. V.  
Vonsovskii, Moscow, 1961, p. 188-214.

DESCRIPTORS: \*Metals, \*Ferromagnetism, Ferro-  
magnetic materials, \*Resonance absorption, High  
frequency, Electromagnetic fields, Electrons, Mathe-  
matical analysis.  
(Physics--Magnetism, TT, v. 10, no. 7)

63-14468

- I. Turov, E. A.
- II. Vonsovskii, S. V.
- III. Title: Influence ...
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No 4, 1953, pp 501-503.

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On the Theory of the G-Factor in Ferromagnetic  
Metals, by E. A. Turov, 3 pp.

RUSSIAN, per, Fiz Met i Metall, Vol IV, No 1, (10),  
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SLA R-2045

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On the Theory of the Temperature Dependence of  
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No 4(10), 1959, pp 1127-1132.

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On the Spectrum of Oscillations of a Ferromagnetic  
Elastic Medium, by E. A. Turov, I. P. Irkhin, 6 pp.

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Sci - Electricity, physics 52, 272

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Vonsovskii, K. B. Vlasov, E. A. Turov, 11 pp

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of the Transition Metals)., by S. V. Vonsovskiy,  
E. A. Turov, 13 pp.

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Sci - Physics



**Electrical Conductivity of Ferromagnetic Metals  
at Low Temperatures, by E. A. TUROT.**

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**Apr 56**

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E. A. Turov, 19 pp.

RUSSIAN, per, Fiz Met i Metall, Vol III, No 3, 1956,  
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SLA R-1973

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Magnetic Resonance in Rhombohedral Weak  
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4 pp.

RUSSIAN, per, Zhur Eksper i Teoret Fiz, Vol  
XXXVIII, No 4, 1960, pp 1326-1331.

AIP  
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To the Multielectron Theory of Semiconductors.  
II. Ferromagnetic Semiconductors, by Yu. P.  
Zarkhin and E. A. Turov, 9 pp.

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SLA R-1761

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The Influence of Temperature on the Form of Polarograms. Section VI: Methods of Chemical Analysis.

Zavod Lab, XV, 8, 1949, pp. 912-<sup>914</sup>~~913~~.

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17 pp.

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pp 687-693.

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Sci - Chemistry, Physics  
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Decomposition Potentials of Certain Lead Compounds  
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Delimarsky, P. P. Turov, E. B. Gitman, 3 pp.

RUSSIAN, no per, Zhur Prik Khim, Vol XXVIII, No 11,  
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World Consumption of Calcium Carbide for the Flame  
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On the Theory of Weak Ferromagnetism in Rare  
Earth Orthoferrites, by Ye. A. Turov, V. Ye.  
Haysh, 9 pp

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No 1, 1960; pp 10-18

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Pharmacology of the New Alkaloid, Echinopsine, by A. D. Eurova, B. S. Nikolskaya, E. A. Trutneva, 5 pp.

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Certain Plants Used in Folk Medicine, by A. D. Turove, ~~and~~  
E. A. Trutneva, V. F. Travina, 2 pp.

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No 2, Moscow, 1957, pp 101-106.

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New Medicinal Agents From Plants, by A. D.  
Turova, 44 pp: .....

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Compounds of Beryllium Chloride With Ethers, by  
N. Ya. Turova, A. V. Novoselova, K. N. Semenko,  
3 pp.

RUSSIAN, per, Zhur Neorgan Khim, Vol V, No 8,  
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The Phenomenological Theory of Electric Conductivity  
of Ferrites and Antiferromagnetic Materials, by  
Ye. A. Turov, Yu. P. Irkhin, 10 pp

RUSSIAN, PER, Fiz Metal i Metallov, Vol IX, No 4,  
1960, pp 488-497

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Turova, N. F.

RIBONUCLEIC ACID IN THE BRAIN OF ANIMALS  
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[1962] [5]p.

Order from OTS or SLA \$1.10

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Trans. of Ukrayins'kyi Biokhimichnyi Zhurnal (USSR)  
1961, v. 33, no. 6, p. 805-809.

DESCRIPTORS: \*Ribonucleic acids, \*Brain, Animals,  
\*Electroshock, \*Convulsions, Biochemistry, Micro-  
photography, Cytochemistry, Nucleic acids

(Biological Sciences--Biochemistry, TT, v. 9, no. 11)

62-20305

I. Turova, N. F.

62-20305

Office of Technical Services



Solubility in the Beryllium Chloride Dietherate-  
Ethyl Ether System, by N. Ya. Turova, A. V.  
Novoselova, K. N. Semenenko, 3 pp.

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pp 117-123.

Cleaver-Hume Press  
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Compounds of Beryllium Chloride and Dialkyl Sulphides,  
by N. S. Sitdykova, N. Ya. Turova, 3 pp.

RUSSIAN, per, Zhur Neorgan Khim, No 11, 1961,  
pp 2512-2518.

Cleaver-Hume Press

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Data for Study of the Wolf With Description of a  
New Method for Ascertaining Age Variability of  
Mammals, by V. G. Geptov, L. G. Turova-Morozova.

Full translation.

RUSSIAE, per, Sbornik Trudov, Vol VII, 1951,  
pp 5-14.

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Scientific - Medicine

Aug 53 CTS

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Isomerization of Polymethylene Hydrocarbons by  
Means of Aluminum Chloride XXV. The Isomerization  
of Cyclopentylcycloheptane, by M. B. Turova-Polyak,  
I. E. Sosnina, et al, 3 pp.

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Turova-Polyak, M. B., Zelinskii, N. D., and  
Gasas-Zade, G. R.  
ON THE CONVERSION OF CYCLOPENTANE HYDRO-  
CARBONS OF BENZENE INTO CYCLOHEXANE  
HYDROCARBONS, tr. by O. Akhmanova. [1961] 2p.  
25 refs.

Order from OTS or SLA \$1.10                      61-16641

Trans. of [Akademiya Nauk SSSR]. Comptes Rendus  
(Doklady) de l'Academie des Sciences de l'U. R. S. S.,  
1941, v. 32, p. 551-554.

DESCRIPTORS: \*Benzenes, \*Hydrocarbons, \*Cyclo-  
pentanes, Isomeric transitions, Dehydrogenation,  
\*Cyclohexanes, Aluminum compounds, Chlorides,  
Chemical reactions.

Cyclopentane derivatives of the gasoline boiling range  
capable of ring expansion were completely converted  
to cyclohexanes by the action of 10% aluminum chloride  
(Chemistry--Organic, TT, v. 6, no. 9)                      (over)

61-16641

I. Turova-Polyak, M. B.  
II. Zelinskii, N. D.  
III. Gasas-Zade, G. R.

Office of Technical Services

61-20122

Turova-Polyak, M. B., Egorova, N. P., and Petrova, E. N.  
ISOMERIZATION OF POLYMETHYLENE HYDROCARBONS UNDER THE ACTION OF ALUMINUM CHLORIDE. XII. OPTIMAL CONDITIONS OF ISOMERIZATION OF ALKYL CYCLOPENTANES. [1961]  
Sp. 5 refs.

Order from OTS or SLA \$1.10      61-20122

Trans. of Zhurnal Obshchei Khimii (USSR) 1946, v. 16, p. 825-828.

DESCRIPTORS: \*Hydrocarbons, \*Cyclopentanes, Pentanes, \*Molecular isomerism, Aluminum compounds, Chlorides, Chemical reactions.

It was established that cyclopentane homologs are isomerized by contact with aluminum chloride to cyclohexane derivatives without any external supply of heat. (Chemistry--Organic, TT, v. 6, no. 11)      (over)

- I. Turova-Polyak, M. B.
- II. Egorova, N. P.
- III. Petrova, E. N.
- IV. Title: Optimal ...

Office of Technical Services

61-20123

Turova-Polyak, M. B. and Petrova, E. N.  
ISOMERIZATION OF POLYMETHYLENE HYDRO-  
CARBONS UNDER THE ACTION OF ALUMINUM  
CHLORIDE. XIII. ISOMERIZATION OF ETHYL-  
CYCLOHEPTANE. [1961] 6p. 17 refs.

Order from OTS or SLA \$1.10      61-20123

Trans. of Zhurnal Obshchel Khimii (USSR) 1946, v. 16  
p. 829-834.

DESCRIPTORS: \*Hydrocarbons, \*Cycloheptanes, Ethyl  
radicals, Heptanes, \*Molecular Isomerism, Synthesis,  
Dehydrogenation, Bromination, Aluminum compounds,  
Chlorides, Chemical reactions.

Action of aluminum chloride on ethylcycloheptane with-  
out heating brings about isomerization of this  
naphthene to cyclohexane derivatives to the extent  
of 18-20%, this is accompanied by evolution of heat.  
(Chemistry--Organic, TT, v. 6, no. 11) (over)

I. Turova-Polyak, M. B.  
II. Petrova, E. N.  
III. Title: Isomerization...

Office of Technical Services

Turova-Polyak, M. B. and Sidel'kovskaya, F. P.  
ISOMERIZATION OF POLYMETHYLENE HYDRO-  
CARBONS UNDER THE ACTION OF ALUMINUM  
CHLORIDE. VIII. ISOMERIZATION OF HEXAHY-  
DROMESITYLENE. [1961] 3p. 8 refs.      61-18016  
Order from OTS or SLA \$1.10

Trans. of Zhurnal Obshchei Khimii (USSR) 1941, v. 11  
[no. 10] p. 821-823.

DESCRIPTORS: \*Hydrocarbons, \*Cyclohexanes,  
\*Molecular isomerism, Methyl radicals, Aluminum  
compounds, Chlorides.

The process of isomerization of hexahydromesitylene  
with aluminum chloride was investigated. Interaction of  
aluminum chloride with hexahydromesitylene gives a  
mixture of hydrocarbons of which 88% consist of cyclo-  
hexanes (unchanged hexahydromesitylene), 9% of cyclo-  
pentanes and 3% of paraffins. The group composition of  
the isolated hydrocarbons confirms the previously made  
(Chemistry--Organic, TT, v. 6, no. 7)      (over)

61-18016

I. Turova-Polyak, M. B.  
II. Sidel'kovskaya, F. P.  
III. Title: Isomerization of  
Hexahydromesitylene

Office of Technical Services



Turova-Polyak, M. B. and Sidel'kovskaya, F. P.  
ISOMERIZATION OF POLYMETHYLENE HYDRO-  
CARBONS UNDER THE ACTION OF ALUMINUM  
CHLORIDE. VII. ISOMERIZATION OF CYCLO-  
HEPTANE. [1961] 5p. 15 refs.  
Order from OTS or SLA \$1.10                      61-18017

Trans. of Zhurnal Obshchey Khimii (USSR) 1961, v. 11,  
[no. 10] p. 817-820.

DESCRIPTORS: \*Hydrocarbons, \*Cycloheptanes,  
\*Molecular isomerism, Aluminum compounds,  
Chlorides.

Isomerization of cycloheptane under the action of alumi-  
num chloride was investigated. It was established that  
aluminum chloride isomerizes cycloheptane to methyl-  
cyclohexane to the extent of 97-98%; thus, isomeri-  
zation of a seven-member naphthene into a six-member  
naphthene was accomplished. (Author)  
(Chemistry--Organic, TT, v. 6, no. 7)

61-18017

I. Turova-Polyak, M. B.  
II. Sidel'kovskaya, F. P.  
III. Title: Isomerization  
of Cycloheptane

Office of Technical Services

Turova-Polyak, M. B. and Vsevolozhakaya, E. V.  
ISOMERIZATION OF POLYMETHYLENE HYDRO-  
CARBONS UNDER THE ACTION OF ALUMINUM  
CHLORIDE. IN: ISOMERIZATION OF 1, 2-DIMETHYL-  
CYCLOPENTANE. [1961] 5p. 22 refs.  
Order from OTS or SLA \$1.10

61-18015

Trans. of Zhurnal Obshchey Khimii (USSR) 1941, v. 11  
[no. 10] p. 824-828.

DESCRIPTORS: \*Hydrocarbons, \*Cyclopentanes,  
\*Molecular Isomerism, Aluminum compounds,  
Chlorides.

The process of isomerization of 1, 2-dimethylcyclopentane under the action of aluminum chloride was investigated. It was established that 96.7% methylcyclohexane is formed by isomerization of 1, 2-dimethylcyclopentane. It was shown that the presence of two substituent groups in the molecule of cyclopentane does  
(Chemistry--Organic, TT, v. 6, no. 7) (over)

61-18015

- I. Turova-Polyak, M. B.
- II. Vsevolozhakaya, E. V.
- III. Title: Isomerization of 1, 2-Dimethylcyclopentane

Office of Technical Services

Turova-Polyak, M. B. and Rappoport, P. L.  
ISOMERIZATION OF POLYMETHYLENE HYDRO-  
CARBONS UNDER THE ACTION OF ALUMINUM  
CHLORIDE. X. ISOMERIZATION OF METHYL-  
CYCLOHEPTANE. [1961] 5p. 11 refs.  
Order from OTS or SLA \$1.10 61-16660

Trans. of Zhurnal Obshchei Khimii (USSR) 1943,  
v. 13, p. 353-357.

DESCRIPTORS: \*Hydrocarbons, \*Cycloheptanes,  
\*Molecular isomerism, Aluminum compounds,  
Chlorides.

Interaction of methylcycloheptane with aluminum chlo-  
ride, accompanied by liberation of heat, results in com-  
plete conversion of methylcycloheptane into dimethyl-  
cyclohexane. Under the conditions of catalytic dehydro-  
genation methylcycloheptane undergoes an isomeri-  
(Chemistry--Organic, TT, v. 6, no. 7) (over)

61-16660

- I. Turova-Polyak, M. B.
- II. Rappoport, P. L.
- III. Title: Isomerization of Methylcycloheptane

Office of Technical Services

Alkylation of Benzene and Its Derivatives  
by Isopropyl Alcohol Over an Aluminosilicate  
Catalyst at Atmospheric Pressure, by M. B.  
Turova-Polyak, M. V. Rudenko, 4 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CXXVI,  
No 6, 1959, pp 1289-.

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Turova-Polyak, M. B. and Novitskii, K. Yu.  
ISOMERIZATION OF POLYMETHYLENE HYDRO-  
CARBONS [UNDER THE ACTION] OF ALUMINUM  
CHLORIDE. XL ISOMERIZATION OF CYCLO-  
OCTANE. [1961] 6p. 9 refs.  
Order from OTS or SLA \$1.10

61-18163

Trans. of Zhurnal Obshchei Khimii (USSR) 1944, v. 14,  
p. 337-342.

DESCRIPTORS: \*Hydrocarbons, \*Molecular isomerism,  
\*Cyclooctanes, Cyclohexanes, Aluminum compounds,  
Chlorides.

Isomerization of cyclooctane in the presence of alumi-  
num chloride was investigated. Interaction of cyclo-  
octane with aluminum chloride, attended by liberation  
of heat, was found to bring about complete conversion  
of cyclooctane into dimethylcyclohexane. Thus, isom-  
erization of an eight-membered naphthenic ring into a  
six-membered ring was established. (Author) (See  
also 61-16660)

61-18163

- I. Turova-Polyak, M. B.
- II. Novitskii, K. Yu.
- III. Title: Isomerization of  
Cyclooctane

Office of Technical Services

(Chemistry--Organic, TT,  
v. 6, no. 7)

Cracking of Tetrahydronaphthalene With Aluminum  
Chloride, by M. B. Turova-Polyak, N. B. Lyumbimova,

RUSSIAN, per, Zhur Obshchei Khim, Vol VIII, No 6,  
1938, pp 538-543.

ATS RJ-2100

*ATS-5000*

Sci - Chem

May 60

*115,393*

Catalytic Reactions in the Presence of Aluminum  
Metal. IV. Alkylation of Bromobenzene With  
Ethyl Bromide, n-Propyl Bromide and n-Butyl  
Bromide. Alkylation of Iodobenzene With  
n-Butyl Bromide, by N. B. Turova-Polyak, N. S.  
Dobrosel'skaya, 5 pp.

RUSSIAN, per, Zhur Otech Khim, Vol XXIX, No 4,  
1959, pp 1072-1077.

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Sci  
JUN 60

117, 864

The Isomerization of Polymethylene Hydrocarbons  
Under the Influence of Aluminum Chloride. XXIV.  
The Isomerization of Cyclononane and Cyclodecane,  
by M. B. Turova-Polyak, E. S. Balenkova, 5 pp.

RUSSIAN, per, Zhur Obshch Khim, Vol XXXI, No 6,  
1961, pp 1976-1981.

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201, 900

Jun 62



The Catalytic Alkylation of Bromobenzene With  
Propyl Alcohols, by M. B. Turova-Polyak,  
N. V. Rudenko, 4 pp.

RUSSIAN, per, Zhur Obshch Khim, Vol XXXI, No 6,  
1961, pp 1982-1985.

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Isomerization of Polymethylene Hydrocarbons Under  
the Action of Aluminum Chloride. XXIII. Isomeri-  
zation of 2-Methyl-Bicyclo-(1,2,2)-Heptane, by  
K. B. Turova-Polyak, I. E. Sosnina, I. G. Golutvina,  
T. P. Yankina, 5 pp.

RUSSIAN, per, Zhur Obshch Khim, Vol XXIX, No 4,  
1959, pp 1078-1082.

Consultants Bureau

Sci

117, 866

Jun 60

Catalytic Reactions With Metallic Aluminum. II.  
Alkylation of Benzene With Chlorocyclohexane and  
Chlorocyclopentane, by M. B. Turova-Polyak, I. R.  
Davydova, 6 pp.

RUSSIAN, no per, Zhur Obsch Khim, Vol XXVI, No 10,  
Oct 1956, pp 2710-2715.

Consultants Bureau

Sci - Chemistry  
Mar 58

60,098

The Isomerization of Polymethylene  
Hydrocarbons under the Influence of  
Aluminum Chloride. XXII. The Isomerization  
of Dicyclopentylmethane, by M. B. Turova-  
Polyak, I. E. Sosnina, I. I. Voznesenskaya,  
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