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DESCRIPTORS: *Petroleum, *Cyclopentanes, Methyl
radicals, *Dehydrogenation, Catalysis, *Catalysts,
Aluminum compounds, Chromium compounds,
Potassium compounds, Oxides, Activated carbon,
*Cyclopentadiene, Production.

The reaction of dehydrogenation of the methylcyclo-
propane fraction 69-75 C from Baku gasoline of straight
distillation was investigated in the presence of different
oxide catalysts and active carbon. It was established,
that at 600 C, under a pressure reduced to 15-20 mm.
Hg. and at a supply rate of 0.3 hour⁻¹, the yield is
(Chemistry--Organic, TT, v. 11, no. 5) (over)

TT-64-10102

1. Title: Methylcyclopentane
I. Shulkin, N. I.
II. Naryshkina, T. I.

1100648

Office of Technical Services

Shulkin, N. I., Timofeeva, E. A., Plotnikov, Yu. N.,
and others.

PRODUCTION OF ALKENES C_6-C_{10} BY CATALYTIC
DEHYDROGENATION OF ALKANES. [1963] 17p33refs
Order from OTS, SLA, or ETC \$1.60 TT-64-10107

Trans. of Neftekhimiya (USSR) 1962, v. 2 [no. 4]
p. 457-466. (Abstract available).

DESCRIPTORS: *Alkenes, *Hexenes, Production,
*Alkanes, *Hexanes, *Dehydrogenation, *Catalysis,
Catalysts, Aluminum compounds, Chromium com-
pounds, Potassium compounds, Oxides.

Dehydrogenation of 2-methylpentane, 3-methylpentane
and 2,3-dimethylbutane on alumina-chromia-potassia
catalyst at 500 C and a space velocity of 0.5 hour⁻¹
showed that C_6 alkanes, with a chain shorter than 6 C
atoms, give easily 32 to 40% of alkenes in the cata-
lyzate. Existence of two types active centers, dehy-
(Chemistry--Organic, TT, v. 11, no. 5) (over)

TT-64-10107

I. Shulkin, N. I.
II. Timofeeva, E. A.
III. Plotnikov, Yu. N.

Office of Technical Services

High-Temperature Transformations of Ethylcyclohexane
in Presence of Palladium-Alumina and Hydrogen at
High Pressure in a Flow System, by N. I. Shvachin,
Kh. M. Minachev, V. L. Vinogradov, Yu. P. Egorov,
8 pp.

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No 5, 1957, pp 598-603.

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May 59

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munication No 2. Tetraline Alkylation by
Heptene-1, by M. Shuykin. 93

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Khim Nauk, No 7, 1960, pp 1254-1257.
NTC 69-12511-07C

M Shuykin

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High-Temperature Transformations of n-Heptane on
a Platinized Aluminum Silicate in a Flow System
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Oxide-Metal Catalysts for the Reforming of Gasolines.
Communication 1. Reforming of the 96-114 Fraction
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Some Specific Characteristics of a Skeletal Nickel-Aluminum Catalyst in the Hydrogenolysis of a Cyclopentane Ring, by N. I. Skuytin, M. I. Cherkashin, 3 pp.

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Dehydrogenation of n-Pentane and Isopentane in
the Presence of an Alumina-chromia-Potassia
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Conversions of C₅-C₉ n-Alkanes In The Presence of
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CATALYTIC DEHYDROGENATION OF β -N-BUTYL-
NAPHTHALENE. [1961] 4p. 7 refs.
Order from OTS or SLA \$1.10

61-14966

Trans. of Akad[emiya] Nauk SSSR. Dokl[ady] 1960,
v. 133 [no. 5] p. 1125-1127.

DESCRIPTORS: *Naphthalenes, Butyl radicals,
*Dehydrogenation, Catalysis.

(Chemistry--Organic, TT, v. 6, no. 2)

61-14966

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II. Erivanskaya, L. A.
III. Yan, Ai-si

Office of Technical Services

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