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DESCRIPTORS: *Chromium, *Steel, Welding, *Elec-
trodes, Heat resistant alloys.

(Metallurgy--Ferrous Metals, TT, v. 6, no. 5)

61-22836

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Trans. of mono. Trudy Vsesoyuznoi Konferentsii po
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v. 3, p. 105-110.

DESCRIPTORS: *Hydrocarbons, Mixtures, *Gasoline,
Raman spectroscopy, Chemical analysis, Scattering,
Benzene, Cyclohexane, Hexane, Methyl radicals.

Attempts to develop a quantitative method of determi-
nation of individual components of gasoline based on
Raman spectroscopy are related. When only an ap-
proximate analysis is sufficient, the spectrum of the hy-
drocarbon to be determined is produced on the same
(Chemistry--Analytical. TT, v. 8, no. 3) (over)

61-18155

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II. Title: All-Union ...

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OPTICAL METHODS OF INVESTIGATION OF
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Order from GTS or SLA \$1.10 61-20160

Trans. of Akademiya Nauk SSSR. Otdelenie Khimicheskikh Nauk. Izvestiya, 1943, p. 196-204.

✓ DESCRIPTIONS: *Hydrocarbons, Raman spectroscopy.
Optical spectrometers, Hexanes, Heptanes, Octanes.

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

61-20160

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RAMAN SPECTRA OF INDIVIDUAL HYDROCARBONS.
[1961] 4p. 4 refs.
Order from OTS or SLA \$1. 10

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Trans. of Akademiya Nauk SSSR. Izvestiya. Seriya
Fizicheskaya, 1945, v. 9, p. 222-224.

DESCRIPTORS: *Hydrocarbons, Spectrographic analysis,
*Raman spectroscopy, *Naphthenes.

Raman spectroscopical studies of mixtures of synthesized
paraffins and naphthenes are briefly related, on the basis
of which some of the most characteristic Raman spectrum
lines of several hydrocarbons usually found in the fractions
55°-65° and 85°-90° C have been identified. (Author)

(Physics--Spectroscopy, TT, v. 6, no. 10)

61-18354

I. Bazhulin, P. A.

Bazhulin, P. A., Plate, A. F. and others.
OPTICAL METHOD OF INVESTIGATION OF HYDRO-
CARBONS. II. SPECTRA OF COMBINATION SCAT-
TERING OF PARAFFINS. [1961] [5]p. 6 refs.
Order from OTS or SLA \$1.10 61-16875

Trans. of Akademiya Nauk SSSR. Otdelente Khimi-
chenikh Nauk. Izvestiya, 1941, no. 1, p. 13-26.

DESCRIPTORS: *Hydrocarbons, Raman spectroscopy,
Optical analysis, Gasoline, Octanes, Fuels, Chemical
industry.

An investigation of the Raman spectra of 19 paraffins is
reported using a simplified method of determination of
intensities of the spectral lines. These hydrocarbons
include normal pentane, 2-methylbutane, normal hexane,
2-methylpentane, 3-methylpentane, normal heptane,
2-methylhexane, 3-methylhexane, 2,2-dimethylpentane,
3-ethylpentane, normal octane, 2-methylheptane,
3-methylheptane, 4-methylheptane, 3,3-dimethyl-
(Physics--Spectroscopy, TT, v. 6, no. 7) (over)

61-16875

I. Bazhulin, P. A.
II. Plate, A. F.
III. Title: Spectra...

Office of Technical Services

hexane, 2,5-dimethylhexane, 3-ethylhexane, 2,2,4-trimethylpentane and 2,4-dimethylhexane. A comparison is made with literature data for those of the enumerated hydrocarbons for which Raman spectra were reported. The methods employed for the preparation of these hydrocarbons are described. (Author)

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Investigation of the Temperature Dependence of
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No 9, 1958, pp 1057-1061.

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Investigation of the Temperature Dependence of
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Photoelectric Investigation of Raman Spectra of
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