



Joint Stock Company Novokuibyshevsky Oil Refinery  
Legal address and production address:  
Russian Federation, 446207, Samara region, Novokuibyshevsk, Osipenko str., 12,  
e-mail: [sekr@nknppz.rosneft.ru](mailto:sekr@nknppz.rosneft.ru), tel.: 8(84635) 6-12-38, tel.: 8(84635) 3-44-12

Certificate of conformity of the Quality Management System to the requirements of ISO 9001:2015  
No. 31100542 QM15; certificate validity period: until 02.09.2024

Testing laboratory - Plant Central Lab (PCL)  
Russian Federation, 446207, Samara region, Novokuibyshevsk, Osipenko str., 12,  
Joint Stock Company Novokuibyshevsky Oil Refinery  
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### CERTIFICATE No. 5996

#### BROAD FRACTION OF LIGHT HYDROCARBONS (NGLs), GRADE B, TS 38.101524-2015

Documents establishing requirements to products:  
TS 38.101524-2015 "Broad fraction of light hydrocarbons. Specifications".  
OKPD 2 Code: 19.20.32.190  
Batch number: 1421  
Date of manufacture: 01.12.2021  
Batch size (mass): 46.9 t of oil  
Sampling site (according to GOST 14921): Bullet No. 1702  
Filling level: 237 cm  
Date of sampling: 01.12.2021  
Test date: 01.12.2021  
The certificate was issued on the basis of the test report: No. 9231 dated 01.12.2021.

Name of the indicator, unit of measurement	Testing method	Norm according to TS 38.101524-2015	The actual value
1. Mass fraction of components, %: - the amount of C <sub>1</sub> -C <sub>2</sub> hydrocarbons • including: methane • ethane - propane the amount of C <sub>4</sub> -C <sub>5</sub> hydrocarbons including: • the amount of C <sub>4</sub> hydrocarbons • the amount of C <sub>5</sub> hydrocarbons  - the amount of C <sub>6</sub> hydrocarbons and higher	GOST 10679-2019	maximum 5.0 Not standardized Not standardized Not standardized minimum 40.0 not standardized Definition required not standardized Definition required maximum 30.0	0.44 minimum 0.01 0.44 16.64 82.92 82.37 0.55 minimum 0.01
2. Mass fraction of hydrogen sulfide and mercaptan sulfur, %	GOST 22985-2017	maximum 0.05	0.0277
3. including hydrogen sulfide	GOST 22985-2017	maximum 0.003	Less than 0.0002
4. Free water and alkali content	TS 38.101524-2015, item 5.3	Absence Definition required	Absence
5. Overall view	TS 38.101524-2015, item 5.4	colorless transparent liquid	colorless transparent liquid
6. Density at 20°C, kg/m <sup>3</sup>	GOST 28656-2019	not standardized Definition required	559

**Conclusion:** The broad fraction of light hydrocarbons (NGLs) of grade B meets the requirements:

- TS 38.101524-2015 "Broad fraction of light hydrocarbons. Specifications".

**Additional information:**

- aggregate state at a temperature of 20°C and a pressure of 760 mmHg - gaseous;
- transportation and storage - according to GOST 1510;
- transportation by rail in accordance with the established rules for vessels operating under pressure;
- the warranty period of storage is 3 months from the date of manufacture;
- safety data sheet RPB No.05766600.19.69277, valid until 02.08.2026;
- the products are manufactured under the control established in the Quality Management System certified by DQS (DEKUES LLC) and conforming to the requirements of ISO 9001:2015 (permissible exceptions of item 8.5.1 (h) in terms of delivery and actions after delivery of products).

**Dispatcher of shop No. 10**  
(power of attorney No. 99/21 dated 01.01.21)

**T. P. Maltseva**

Stamp here

Certificate issue date: 01.12.2021