



**LIMITED LIABILITY COMPANY
RN-BUZULUKSKIY GAS PROCESSING PLANT**

Legal address of the enterprise: 461040, Orenburg region, Buzuluk city, Technicheskaya str., 10
Telephone: (35342)39-601, fax (35342) 39-602, email: bgpp_priemnaya@rosneft.ru
Production address: Russia, Orenburg region, Grachevsky district, Pokrovka village (Novonikolsky village), Promzemya 101, Pokrovskaya GTU



QUALITY CERTIFICATE NO. 3657
Hydrocarbon liquefied fuel gas grade
propane-butane automobile (PBA) GOST R 52087-2018
EAEU Declaration of Conformity No. RU D-RU.RA01.V.08119/21 is valid until 12.04.2024.

OKPD 2 19.20.31 CUCC FEA 2711129700

Batch No. 3657

Date of product manufacture: 29.06.2021

Tank No. _____

Date of sampling: 29.06.2021

Net weight, t _____

ND of the sampling method GOST 14921-2018

Net volume*, l _____

Test date: 29.06.2021

Sampling and testing were carried out by the Chemical Laboratory of LLC RN-BGPP, certificate of accreditation No. RA.RU21NV73 dated 05.04.2018

Name of indicator	Testing method	Norm no TR	Norm according to GOST	Actual value
1. Octane number, minimum	Appendix B GOST EN 589	89.0	Not standardized	92.3
2. Mass fraction of components, % the amount of methane, ethane and ethylene	GOST 10679	Not standardized		1.9
the amount of propane and propylene		Not standardized		58.4
including propane		Not standardized	50±10	58.4
- the amount of butanes and butylenes		Not standardized		39.7
the amount of unsaturated hydrocarbons, max		6.0		Less than 0.1
3. Volume fraction of liquid residue at 20°C, % , max	GOST 52087 item 8.2	1.6		Less than 0.1
4. Saturated vapor pressure is excessive, MPa, at temperature:	GOST 28656 item 4.6 2	1.6		1.17
plus 45°C, max		0.07		0.10
minus 20°C, minimum		Not standardized		0.07
minus 30°C, minimum				
5. Mass fraction of hydrogen sulfide and mercaptan sulfur, % , max	GOST 22985	0.01		0.0059
including hydrogen sulfide, %, max		0.003		Less than 0.0002%
6. Free water and alkali content	GOST 52087 item 8.2	Absence		Absence
7. Odor intensity, points, minimum	GOST 22387.5	Not standardized		3
8. Odor	Appendix B GOST R 52087	unpleasant and characteristic at a concentration in the air of 20% of NIP		unpleasant and characteristic at a concentration in the air of 20% of the NIP
9. Density at a temperature of 15°C, kg/m ³	GOST 28656 item 1	Not standardized		529.6

* The net volume of the product is calculated based on the density at 15°C.

The product complies with the requirements of the EAEU TR 036/2016 "Requirements for liquefied petroleum gases for use as fuel" as motor fuel for motor transport.

The product meets the requirements of GOST R 52087 - 2018 item 4.2, table.2 for the PBA grade

The gas is odorized, yes/no - no

The quality certificate is formed on the basis of test report No. 5342 of 29.06.2021

Date of issue of the quality certificate No. 3657 29.06.2021



Shift Supervisor

Signature

Seal:
LIMITED LIABILITY COMPANY
LLC RN-BUZULUK GAS
PROCESSING PLANT

A.V. Nikolaev
FULL NAME

The manufacturer guarantees that the product meets the requirements of the standard within 3 months from the date of manufacture, subject to the rules of transportation and storage.

Reprinting and copying of this certificate without the permission of LLC RN-BGPP is prohibited

the end of the quality certificate No. 3657