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 Production address:
 Russian Federation, 150023, Yaroslavl Region, Yaroslavl, Moskovsky Prospekt 150
 Certificate of conformity of the quality management system ISO 9001:2015 No. 20.1994.026, valid until 11.01.2024.

QUALITY CERTIFICATE NO. 1073

Hydrocarbon gases liquefied fuel grades propane technical (PT) according to GOST R 52087-2018

Declaration of Conformity of the EAEU No. RU D-RU.AB 04.B.01578/19
 Valid until 17.04.2022

Designation of documents that establish requirements for products:
 Technical Regulations of the Eurasian Economic Union "Requirements for liquefied Petroleum gases for their use as fuel" (EAEU TR 036/2016) (Decision of the Eurasian Economic Commission No. 68 of August 09, 2016) (Appendix) GOST R 52087-2018 "Liquefied petroleum gases. Specifications"
 OKPD Code 2 19.20.31



Batch number: 449
 Date of manufacture: December 13, 2021
 Batch size (mass): 39 t
 Sampling site (according to GOST 14921) E-133
 Date of sampling: December 13, 2021
 Test date: December 13, 2021

No.	Name of the indicator	Method method	The norm according to of the EAEU TR 036/2016	Norm according to GOST R 52087-2018.	Actual value
1.	Mass fraction of components, %: - the amount of methane, ethane and ethylene - the amount of propane and propylene - the amount of butanes and butylenes	GOST 10679-2019	-	Not standardized Definition required minimum 75 Not standardized Definition required maximum 0.7	3.25
			-		83.10
			-		13.56
			maximum 1.8		Absence
2	Volume fraction of liquid residue at plus 20°C, %	As to item 8.2 GOST R 52087-2018	maximum 1.8	maximum 0.7	Absence
3.	Saturated vapor pressure, excess, MPa, at temperature plus 45°C minus 20°C	GOST 28656-2019	maximum 1.6	maximum 1.6	1.51
				maximum 0.16	0.17
4	Mass fraction hydrogen sulfide and mercaptan sulfur, % including hydrogen sulfide, %	GOST 22985-2017	maximum 0.013	maximum 0.013 maximum 0.003	0.0047
			maximum 0.003		less than 0.0002
5.	Free water and alkali content	As to item 8.2 GOST R 52087-2018	Absence	Absence	Absence
6	Odor intensity, Point	GOST 22387.5-2014	minimum 3	minimum 3	
Additional requirements (contract, contract specification, delivery agreement, etc.)					
No.	Name of the indicator	Method method	The norm under the contract, etc.		Actual value
1	Density at 15°C, kg/m ³	GOST 28656-2019			524.5
2	Mass fraction of components, %: - Propane - propylene - - the amount of butanes - the amount of butylenes	GOST 10679-2019	-		64.94
			-		1.32
			-		31.21
			-		0.04

Item 6 - according to Note 2 of the Appendix of the EAEU TR 036/2016 and Note 2 of Table 2 of GOST R 52087-2018, it is allowed not to determine the intensity of the odor with a mass fraction of mercaptan sulfur in liquefied gases of 0.002% or more.

Conclusion: Liquefied petroleum gas fuel grade propane technical (PT) **meets the requirements:**

-EAEU TR 036/2016 "Requirements for liquefied petroleum gases for their use as fuel"
 (Decision of the Eurasian Economic Commission No. 68 of August 09, 2016) (Appendix)
 -GOST R 52087-2018 "Liquefied petroleum fuel gases. Specifications"

Information on the presence of an odorant: Odorant is missing

Additional information: - transportation and storage according to GOST R 52087-2018 section 9;
 - the warranty period of storage is 6 months from the date of manufacture of the product.

Head of the Laboratory of Entrance Control and Gas Analysis
 Laboratory assistant

/signature/

S.V. Usanova

/signature/

O.M. Pashneva

Stamp here

Certificate issue date:

December 13, 2021

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