

## Certificate of quality

### AUTOMOTIVE Liquefied Petroleum Gas, Winter Type (grade B)

Standard: LST EN 589:2024

KN: 27111900 Certificate of quality Registration Date: 2024-12-25

Sampling date: 2024-12-25

Product mass (weight in vacuum), t: 19.760 Vehicle Plate No.:

Property	Norm	In fact*	Test method
1. Motor octane number, MON, min	89,0	91,1	LST EN 589 B annex
2. Total dienes content, % m/m, max	0,5	<0,1	LST EN 27941 DIN 51619
3. 1,3 Butadiene, % m/m, max	0,10	<0,01	DIN 51619
4. Propane content, % m/m, min	20	25,61	LST EN 27941 DIN 51619
5. Hydrogen sulfide	negative	negative	LST EN ISO 8819
6. Total sulfur content (after stenching), mg/kg, max	30	<1	ASTM D 6667
7. Copper strip corrosion (1 h esant 40 °C), rating	class 1	1 class	LST EN ISO 6251
8. Evaporation residue, mg/kg, max	60	<20	LST EN 15471
9. Vapour pressure, gauge, at 40 °C, kPa, max	1550	1143	LST EN ISO 8973 LST EN ISO 8973/A1 LST EN 589 C annex LST EN ISO 4256
10. Vapour pressure, gauge, at -5 °C, kPa, min	200	275	LST EN ISO 8973 LST EN ISO 8973/A1 LST EN 589 C annex
11. Water content	Pass	Pass	LST EN 15469
12. Odour	Unpleasand and distinctive at 20 % LFL	Unpleasand and distinctive at 20 % LFL	LST EN 589 A annex
13. Density, at 15 °C, kg/m <sup>3</sup>	no normed	534	LST EN ISO 8973 LST EN ISO 8973/A1

\* Actual values of quality parameters as indicated in Quality Certificate issued by the producer AB ORLEN Lietuva

Public Company ORLEN Lietuva, being fully responsible, hereby certifies that "AUTOMOTIVE LPG, Winter Type (grade B)", related to this declaration, corresponds to the requirements of LST EN 589:2024.



**Gintarė Godelė**

Document Administrator

Document No.:

## CERTIFICATE OF QUALITY

Annex to quality certificate No. 178087\_6194656

Tank No. T-18

Product level : 262

Property	Content, % (m/m)
Methane	0,01
Ethane	0,50
Ethene	0,01
Propane	25,61
Propene	34,41
Isobutane	32,37
N-butane	4,64
1-Butene	0,33
Isobutene	0,78
Trans-butene	0,58
Cis-butene	0,38
1,3-Butadiene	<0,01
Isopentane	0,05
N-pentane	0,01
Sum of pentenes	0,32
Propadiene	<0,01
Acetylene	<0,01
Metilacetylene	<0,01
Vapour pressure, gauge, at 70 °C, kPa	2273
Density, at 50 °C, kg/m <sup>3</sup>	476

Note: Liquefied petroleum gas vapour pressure @ 70 °C (kPa) is calculated according to LST EN ISO 8973, LST EN ISO 8973/A1 and density @ 50 °C (kg/m<sup>3</sup>) is calculated according to GOST 28656.

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