

INSPECTION REPORT No. 68/31/IRE/2021

Commodity declared as/ Scope of inspection

LPG/ sampling and laboratory testing

Declared quantity

57886079, 57801433, 57800674, 57788002, 57554230, 50514280.

Samples taken from

Rtc No.: 50514280

Sample submitted as

Sample from liquid phase

Place of sampling

Reloading Terminal "Chemikals" (Poland)

Laboratory testing No.

3150/LPG/BR/2021

Customer

VENOR Polska Sp. z o.o.

Plac Na Groblach 21/7, 31-539 Kraków

Date of sampling/Date of testing/ Report issued on (date)

13.12.2021/ 13.12.2021/ 13.12.2021

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RESULTS

Parameter	Result	Unit	Testing method	Requirements of RME from 14.04.2016 (Journal of Laws 2016, item. 540)
1. C1	<0,1	% (m/m)	PN-EN 27941:2015-12 ^A	no requirements
2. C2	3,9			
3. C3	51,6			
4. C4	44,2			
5. C5	0,2			
1. metane	<0,1	% (m/m)	PN-EN 27941:2015-12 ^A	no requirements
2. etane	3,9			
3. etylene	<0,1			
4. propane	51,6			
5. propene	<0,1			
6. i-butane	21,0			
7. propadiene	<0,1			
8. n-butane	23,2			
9. 2-trans-butene	<0,1			
10. 1-butene	<0,1			
11. i-butene	<0,1			
12. 2-cis-butene	<0,1			
13. 2,2-dimetylopropane	0,1			
14. i-pentane	0,1			
15. Metyloacetylene	<0,1			
16. n-pentane	<0,1			
17. 1,3-butadiene	<0,1			
18. C5+	<0,1			
Motor octane number, MON	94,5	-	PN-EN 589:2019-04 zał. B ^A	min 89,0
Total diene content (including 1,3 butadiene)	<0,1	% (mol/mol)	PN-EN 27941:2015-12 ^A	max 0,5 % (mol/mol)
Hydrogen sulphide	negative	-	PN-EN ISO 8819:00 ^A	negative
Total sulfur content	9,6	mg/kg	ASTM D 6667-14(2019) ^A	max 50 mg/kg
Water content	not detected	-	PN-EN 15469:2009 ^A	not detected
Evaporation residue	6	mg/kg	PN-EN 15470:2017-08	max 60 mg/kg
Density at 15°C	526,0	kg/m ³	PN-EN ISO 8973:00 ^A	no requirements
Copper strip corrosion(1h at. 40°C)	class 1	-	PN-EN ISO 6251:01 ^A	class 1
Vapour pressure, gauge, at 40°C	1185	kPa	PN-EN 589:2019-04 zał. C ^A	max 1550 kPa
Vapour pressure, gauge, min. 150 kPa at a temp.	-18	°C	+PN-EN ISO 8973:00	max -5°C
Odour	unpleasant and distinctive ²⁾	-	PN-EN 589:2019-04 Zał A ^A	unpleasant and distinctive at 20 % LFL

²⁾ Unpleasant and palpable in the air at a concentration of 20% lower explosive limit

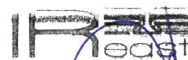
The analyzes were performed at the IReast Laboratory in Braniewo. The Laboratory in Braniewo, accredited by the Polish Center Of Accreditation, No. AB 1275. Index A stands for Accredited Testing Laboratory methods.

Inspection carried out in accordance with the procedure PJI-01, VIII edition of April 17, 2019^B. The sample was taken according to PN-EN ISO 4257: 2004^B. Inspection Body in Braniewo accredited by PCA, No. AK 030. Index B means accredited methods of the Inspection Body.

The tested product meets the requirements of the Regulation of the Minister of Energy of April 14, 2016 on the quality requirements for liquefied gas (LPG) (Journal of Laws of 2016, item 540)

1 ASTM D 6667-14 (2019) has been withdrawn and replaced with ASTM D 6667-21

The report only reflects the results at the time and place of the inspection.



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