

## QUALITY REPORT

Report number: 14001/00008333/21  
Place of sampling: Gdański Terminal Gazowy Gaspol S.A.  
Sample object: shore tank no 11  
Product: propane  
Sample type: general  
Date of sampling: 08.12.2021; 22:30 hrs  
Sample number: 12506560  
Customer reference number: WGT No: 06/12/2021  
Testing completed: 09.12.2021  
Date of issue: 09.12.2021

NAME	METHOD	UNIT	RESULT
C1	PN-EN 27941:2015-12	% m/m	<0,1
C2	PN-EN 27941:2015-12	% m/m	0,7
C3	PN-EN 27941:2015-12	% m/m	97,9
C4	PN-EN 27941:2015-12	% m/m	1,4
C5	PN-EN 27941:2015-12	% m/m	<0,1
Total olefines content	PN-EN 27941:2015-12	ppm	117
1,3-butadiene content	PN-EN 27941:2015-12	ppm	<10
Methane	PN-EN 27941:2015-12	% m/m	<0,1
Ethane	PN-EN 27941:2015-12	% m/m	0,7
Ethene	PN-EN 27941:2015-12	% m/m	<0,1
Propane	PN-EN 27941:2015-12	% m/m	97,9
Propadiene	PN-EN 27941:2015-12	% m/m	<0,1
Propene	PN-EN 27941:2015-12	% m/m	<0,1
i-Butane	PN-EN 27941:2015-12	% m/m	1,0
n-Butane	PN-EN 27941:2015-12	% m/m	0,4
Trans-2-butene	PN-EN 27941:2015-12	% m/m	<0,1
1-Butene	PN-EN 27941:2015-12	% m/m	<0,1
i-Butene	PN-EN 27941:2015-12	% m/m	<0,1
Cis-2-Butene	PN-EN 27941:2015-12	% m/m	<0,1
2,2-Dimethylpropane	PN-EN 27941:2015-12	% m/m	<0,1
i-Pentane	PN-EN 27941:2015-12	% m/m	<0,1
1,2-butadiene	PN-EN 27941:2015-12	% m/m	<0,1
n-Pentane	PN-EN 27941:2015-12	% m/m	<0,1
1,3-butadiene	PN-EN 27941:2015-12	ppm	<10
Total sulphur content	PN-EN 17178:2020-01	mg/kg	3,2
Residue of mineral oil	PN-EN 15471:2017-08	mg/kg	<20
Density at 15,6 °C	PN-C-96008:1998	t/m <sup>3</sup>	0,507
Absolute vapour pressure at -15 °C	PN-C-96008:1998	MPa	0,302
Absolute vapour pressure at 40 °C	PN-C-96008:1998	MPa	1,405
Absolute vapour pressure at 70 °C	PN-C-96008:1998	MPa	2,597
Calorific value	PN-C-96008:1998	kJ/kg	46360
Hydrogen sulfide content	PN-EN ISO 8819:2000	-	not detected
Water content	PN-C-96008:1998	-	not detected
Odour	PN-EN 589:2019-04 Annex A	-	distinctive
Copper strip corrosion (1 h at 40 °C)	PN EN ISO 6251:2001	-	class 1

### Remarks:

Sample was taken from the tank as above in accordance with EN ISO 4257:2001.  
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Signed by: Kamil Borsuk  
Issued by: Saybolt Poland sp. z o. o.