



CERTIFICATE OF ANALYSIS

Client **GEOGAZ LAVERA**
File Nr **2352056LV**

Operation **EPIC SALINA**
Product **Propane**
SGS OGC Nr **LV2319390**
Nature **Auto in line sampler**
Sample on **2023-11-24**

Receipt on **2023-11-24**
Site **GEOGAZ Lavera**

ANALYSIS	METHODS	UNITS	RESULTS	MIN	TYPICAL	MAX
GPL Composition by GC		NF EN 27941				
Ethane		Mass Pct	0.6			
Ethylene		Mass Pct	< 0.1			
Propane		Mass Pct	98.4			
Propylene		Mass Pct	< 0.1			
Isobutane		Mass Pct	1.0			
n-Butane		Mass Pct	< 0.1			
Trans-Butene 2		Mass Pct	< 0.1			
1-Butene		Mass Pct	< 0.1			
Isobutene		Mass Pct	< 0.1			
Neo-Pentane		Mass Pct	< 0.1			
Cis-Butene		Mass Pct	< 0.1			
Isopentane		Mass Pct	< 0.1			
N-Pentane		Mass Pct	< 0.1			
1,3-Butadiène		Mass Pct	< 0.1			
Iso-Butane + n-Butane		Mass Pct	1.0			
Total Olefines		Mass Pct	< 0.1			
Propane + Propylene		Mass Pct	98.4		Note 1	
GPL Composition by GC		NF EN 27941				
Ethane		Vol Pct	0.9			
Ethylene		Vol Pct	< 0.1			
Propane		Vol Pct	98.2			
Propylene		Vol Pct	< 0.1			

In specification parameters.

Compliance established excluding results uncertainty.

This document is issued by the Company under its General Conditions of Service accessible at http://www.sgs.com/terms_and_conditions.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any other holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Uncertainties are related to precision and bias as mentioned into standard methods or calculated for internal methods (available on request). The results shown in this test report specifically refer to the sample(s) tested as received unless otherwise stated. All the tests have been performed using the latest revision of the methods indicated, unless specifically marked otherwise on the report. Precision parameters apply in the determination of the below results. Users of analytical results, when establishing conformance with commercial or regulatory requirement should note the full provision of ASTM D3244, IP 367 or ISO 4259 in that context, the default confidence level of petroleum testing having been set at the 95% confidence level. Your attention is specifically drawn to Section 7.3.6, 7.3.7 and 7.3.8 of ASTM D3244. With respect to the UOP methods listed in the report below the user is referred to the method and the statement within it specifying that the precision statements were determined using UOP Method 999. For dated references, only the edition referred to applies. For undated references the latest edition of the publication referred to applies (including amendments).

For any sample not collected by SGS, the issued results are applied to the sample as received by the company. The informations provided by the customer and on the report are not the responsibility of the company SGS France.

PORT DE BOUC on, 2023-11-24
Emanuel Dubos
Chemist

Oil, Gas & Chemicals - 44 Bd de l'Engrenier - 13110 Port de Bouc t+33 4 42 13 01 50 f+33 4 42 81 20 06

www.sgs.com

Member of the SGS Group



CERTIFICATE OF ANALYSIS

Client **GEOGAZ LAVERA**
File Nr **2352056LV**

Operation **EPIC SALINA**
Product **Propane**
SGS OGC Nr **LV2319390**
Nature **Auto in line sampler**
Sample on **2023-11-24**

Receipt on **2023-11-24**
Site **GEOGAZ Lavera**

ANALYSIS	METHODS	UNITS	RESULTS	MIN	TYPICAL	MAX
Isobutane		Vol Pct	0.9			
n-Butane		Vol Pct	< 0.1			
Trans-Butene 2		Vol Pct	< 0.1			
1-Butene		Vol Pct	< 0.1			
Isobutene		Vol Pct	< 0.1			
Neo-Pentane		Vol Pct	< 0.1			
Cis-Butene		Vol Pct	< 0.1			
Isopentane		Vol Pct	< 0.1			
N-Pentane		Vol Pct	< 0.1			
1,3-Butadiène		Vol Pct	< 0.1			
Iso-Butane + n-Butane		Vol Pct	0.9			
Total Olefines		Vol Pct	< 0.1			
Propane + Propylene		Vol Pct	98.2			
Density at 15°C	NF EN ISO 8973	kg/m3	506.1	502.0		
Abs.Vapour Pressure at 50°C	NF EN ISO 8973	kPa	1706			
Rel.Vapour Pressure at 50°C	NF EN ISO 8973	Bars	16.1	11.5		19.3
Rel.Vapour Pressure at 37.8°C	NF EN ISO 8973	Bars	11.2	8.3		14.4
Volatility at 95 pct	ASTM D 1837w	°C	-38.1			-15
Sulfur content	ASTM D 6667	mg/kg	2.3			50
Copper Corrosion 1h at 40.0°C	NF EN ISO 6251		Class 1			1b
Water (Dew-Point Meter)	ASTM D 1142	ppm wt	12		Note 2	

In specification parameters.

Compliance established excluding results uncertainty.

This document is issued by the Company under its General Conditions of Service accessible at http://www.sgs.com/terms_and_conditions.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any other holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Uncertainties are related to precision and bias as mentioned into standard methods or calculated for internal methods (available on request). The results shown in this test report specifically refer to the sample(s) tested as received unless otherwise stated. All the tests have been performed using the latest revision of the methods indicated, unless specifically marked otherwise on the report. Precision parameters apply in the determination of the below results. Users of analytical results, when establishing conformance with commercial or regulatory requirement should note the full provision of ASTM D3244, IP 367 or ISO 4259 in that context, the default confidence level of petroleum testing having been set at the 95% confidence level. Your attention is specifically drawn to Section 7.3.6, 7.3.7 and 7.3.8 of ASTM D3244. With respect to the UOP methods listed in the report below the user is referred to the method and the statement within it specifying that the precision statements were determined using UOP Method 999. For dated references, only the edition referred to applies. For undated references the latest edition of the publication referred to applies (including amendments).

For any sample not collected by SGS, the issued results are applied to the sample as received by the company. The informations provided by the customer and on the report are not the responsibility of the company SGS France.

PORT DE BOUC on, 2023-11-24
Emanuel Dubos
Chemist

Oil, Gas & Chemicals - 44 Bd de l'Engrenier - 13110 Port de Bouc t+33 4 42 13 01 50 f+33 4 42 81 20 06

www.sgs.com

Member of the SGS Group



CERTIFICATE OF ANALYSIS

Client **GEOGAZ LAVERA**
File Nr **2352056LV**

Receipt on **2023-11-24**
Site **GEOGAZ Lavera**

Operation **EPIC SALINA**
Product **Propane**
SGS OGC Nr **LV2319390**
Nature **Auto in line sampler**
Sample on **2023-11-24**

ANALYSIS	METHODS	UNITS	RESULTS	MIN	TYPICAL	MAX
----------	---------	-------	---------	-----	---------	-----

Note 1: PROPANE + PROPYLENE = environ 90 % vol

Note 2: Si valeur mesurée <30 ppm: absence d'eau.
If measured value <30 ppm: absent of water.

In specification parameters.

Compliance established excluding results uncertainty.

This document is issued by the Company under its General Conditions of Service accessible at http://www.sgs.com/terms_and_conditions.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any other holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Uncertainties are related to precision and bias as mentioned into standard methods or calculated for internal methods (available on request). The results shown in this test report specifically refer to the sample(s) tested as received unless otherwise stated. All the tests have been performed using the latest revision of the methods indicated, unless specifically marked otherwise on the report. Precision parameters apply in the determination of the below results. Users of analytical results, when establishing conformance with commercial or regulatory requirement should note the full provision of ASTM D3244, IP 367 or ISO 4259 in that context, the default confidence level of petroleum testing having been set at the 95% confidence level. Your attention is specifically drawn to Section 7.3.6, 7.3.7 and 7.3.8 of ASTM D3244. With respect to the UOP methods listed in the report below the user is referred to the method and the statement within it specifying that the precision statements were determined using UOP Method 999. For dated references, only the edition referred to applies. For undated references the latest edition of the publication referred to applies (including amendments).

For any sample not collected by SGS, the issued results are applied to the sample as received by the company. The informations provided by the customer and on the report are not the responsibility of the company SGS France.

PORT DE BOUC on, 2023-11-24
Emanuel Dubos
Chemist

Oil, Gas & Chemicals - 44 Bd de l'Engrenier - 13110 Port de Bouc t+33 4 42 13 01 50 f+33 4 42 81 20 06

www.sgs.com

Member of the SGS Group