

CERTIFICATE OF ANALYSIS

Messrs. **XXX**

PRODUCT: **R600a - Isobutane Purity 2.5 (99.50%)**

DdT n.: **XXX** dated **XX.XX.XXXX**

SAMPLE EXTRACT FROM THE CYLINDER: **aaa**

AND TO EXTEND TO THE FOLLOWING BATCH:

aaa/bbb/ccc

Component Name	aaa	Specification	U.M.	Method
Isobutane	99.63	≥ 99.50	%	FID Detector
Propane	1698	-	ppm	FID Detector
n-Butane	1966	-	ppm	FID Detector
ethane	5	-	ppm	FID Detector
1 butene	9	-	ppm	FID Detector
isobutene	18	-	ppm	FID Detector
Other hydrocarbons	3696	≤ 5000	ppm	FID Detector
1,3 Butadiene	≤ 1	≤ 1	ppm	FID Detector
O ₂ +H ₂	≤ 10	≤ 30	ppm	TCD Detector
N ₂	≤ 10	≤ 50	ppm	TCD Detector
CO+CO ₂	≤ 10	≤ 20	ppm	TCD Detector
Sulphur	≤ 1	≤ 1	ppm	PFPD Detector
Moisture	5.2	≤ 10	ppm	Moisture Probe
Density of Liquid @ 20° C	0.508	0.508	Kg/L	Thermodensimeter
Vapour Pressure @ 20° C	7.3	2.1±0.1	bar g	Thermodensimeter

Analysis: Liquid Phase

Analytical Method followed: Internal	Instrument used
IO 003 E0 R2 IO 006 E0 R0 [density and pressure] IO 007 E0 R0 [H ₂ O]	FID Detector: <input type="checkbox"/> GC3800 Varian. Mat: 102072 <input type="checkbox"/> GC580 Arnel 1 Mat: 580S16111612 <input type="checkbox"/> GC580 Arnel 2 Mat: 580S16111606 Moisture Probe: PM880 GE Sensing mat: GDF1708029 PFPD Detector: GC 450 Varian mat: GC0902B007 Thermodensimetro: mat 170411005

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