

ITS. Caleb Brett/Deniz Survey S.A.

LABORATORY REPORT NO:		17519/25 - IST/LAB	
CERTIFICATE OF QUALITY			
VESSEL	LPG/C "GAZ ELISABETH"		
CUSTOMER	AYGAZ A.Ş.		
SAMPLE DATE	31.03.2025		
TERMINAL	AYGAZ TERMINAL / YARIMCA		
SAMPLE OF	LPG MIXTURE		
	LPG/C "GAZ ELISABETH"		
DRAWN BY	AYGAZ A.Ş.		
PACKING	2 KG LPG CYLINDER		
SEALS	N/A		
SAMPLE COLLECTED	31.03.2025		
ORIGIN OF RESULTS	ITS CALEB BRETT/DENİZ SURVEY A.Ş. İSTANBUL LABORATORY		
TEST	METHOD	UNIT	RESULT
DENSITY AT 15 DEG C	ASTM D.1657	KG/LT	0,5210
H2S	ASTM D.2420	-	NEGATIVE
DIENE CONTENT	ASTM D.2163	MOL %	0,00
TOTAL SULPHUR	ASTM D.6667	PPM-WT	11,3
COPPER STRIP CORROSION	ASTM D.1838	NO	1
EVAPORATION RESIDUE	TS EN 15471	PPM	11
REID VAPOR PRESSURE AT 40 DEG C	ASTM D.1267	KPA	1158
REID VAPOR PRESSURE AT 50 DEG C	ASTM D.1267	KPA	1452
DRYNESS	TS EN 15469	-	PASS
ODOUR	TS EN 589 +A1 Ek A	-	PASS
GROSS CALORIFIC VALUE, CALC.	ASTM D.3588	KCAL/KG	11996
NET CALORIFIC VALUE, CALC.	ASTM D.3588	KCAL/KG	11042
MOLAR MASS	CALCULATED	G/MOL	46,1
COMPOSITION	ASTM D 2163 / GC		
METHANE	WT %	0,01	MOL %
			0,03
ETHANE	WT %	0,59	MOL %
			0,91
ETHYLENE	WT %	0,00	MOL %
			0,00
PROPYLENE	WT %	0,01	MOL %
			0,01
PROPANE	WT %	80,04	MOL %
			83,77
ISO-BUTANE	WT %	6,28	MOL %
			4,99
N-BUTANE	WT %	12,57	MOL %
			9,98
TRANS-2-BUTENE	WT %	0,00	MOL %
			0,00
1-BUTENE	WT %	0,00	MOL %
			0,00
ISO-BUTENE	WT %	0,00	MOL %
			0,00
CIS-2-BUTENE	WT %	0,00	MOL %
			0,00
ISO-PENTANE	WT %	0,41	MOL %
			0,26
N-PENTANE	WT %	0,09	MOL %
			0,06
1,2-BUTADIENE	WT %	0,00	MOL %
			0,00
1,3-BUTADIENE	WT %	0,00	MOL %
			0,00
1-PENTENE	WT %	0,00	MOL %
			0,00
TOTAL OLEFINS	WT %	0,01	MOL %
			0,01
ITS CALEB BRETT/DENİZ SURVEY A.Ş. NAME OF ANALYSING CHEMIST & COMPANY: İSTANBUL LABORATORY SIGNED: İSTANBUL, 5.04.2025			
Form No. : KF-L 091 Yayın No. 1 Rev. No./Tarihi: 0 Yayın Tarihi : 01-07-2010			

Intertek

Caleb Brett & Agri & Mineral Services

ITS Caleb Brett Deniz Survey SA /

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