

Composition of Natural Gas by Gas Chromatography, ASTM D1945

Parameter	Units	Date of Result	Result
Hydrogen	% Mol	24/09/2024	0.0000
Oxygen	% Mol	24/09/2024	0.0000
Nitrogen	% Mol	24/09/2024	1.2056
Carbon Dioxide	% Mol	24/09/2024	1.0498
Methane	% Mol	24/09/2024	84.1168
Ethane	% Mol	24/09/2024	6.9519
Propane	% Mol	24/09/2024	3.3427
Iso-Butane	% Mol	24/09/2024	0.5624
n-Butane	% Mol	24/09/2024	1.0550
Iso-Pentane	% Mol	24/09/2024	0.4544
n-Pentane	% Mol	24/09/2024	0.3903
Hexane	% Mol	24/09/2024	0.5511
Heptane	% Mol	24/09/2024	0.2191
Octane	% Mol	24/09/2024	0.0774
Nonane	% Mol	24/09/2024	0.0226
Decane	% Mol	24/09/2024	0.0009
Undecane	% Mol	24/09/2024	0.0000
Dodecane	% Mol	24/09/2024	0.0000
TOTAL	% Mol	24/09/2024	100.0000

Specific Gravity of Gases, ASTM D 3588, 14.696 psig, 60°F:

Parameter	Units	Date of Result	Result
Specific Gravity at 60°F (air=1) Ideal Gas	-	24/09/2024	0.6934

Calculated Heating Value of Gaseous Fuels, ASTM D 3588, 14.696 psig, 60°F:

Parameter	Units	Date of Result	Result
Calculated Gross Heat Value (HHV)	Btu/ft ³	24/09/2024	1,181.54
Calculated Net Heat Value (LHV)	Btu/ft ³	24/09/2024	1,069.91
Calculated Gross Heat Value (HHV)	Btu/lb.	24/09/2024	22,301.93
Calculated Net Heat Value (LHV)	Btu/lb.	24/09/2024	20,194.83
Calculated Molecular Weight	g/mol	24/09/2024	20.100

Pressure and Temperature Pseudo Critical, TOL Method

Parameter	Units	Date of Result	Result
Pseudo critical Pressure	psia	24/09/2024	667.06
Pseudo critical Temperature	Rankine	24/09/2024	381.63

Gas Compressibility Factor TOL Method

Parameter	Units	Date of Result	Result
Gas Compressibility Factor, 14.696 psig, 60°F	-	24/09/2024	0.986

GPM, TOL Method

Parameter	Units	Date of Result	Result
GPM 2+	GPM	24/09/2024	3.938
GPM 3+	GPM	24/09/2024	2.079

3.1 Specific environmental conditions of the Tests

Parameter	Units	Result
Temperature	°C	19.2
Humidity	%	58