

**Egoli Gas (Pty) Ltd**

**COMPOSITION and SPECIFICATION OF NATURAL GAS**

		101.325 kPa	
		0°C	15°C
Energy content			
Gross energy content	(EC) MJ/m <sup>3</sup>	42.23	38.08
Net energy content	MJ/m <sup>3</sup>	40.03	36.10
Density	kg/m <sup>3</sup>	0.80	
Relative density (RD)		0.62	
Wobbe index (WI)	EC/√RD	53.6	
Lower explosive limit (LEL)	% gas in air volume	5	
Higher explosive limit (LEL)	% gas in air volume	15	
Auto ignition temperature	°C	650	
Theoretical flame temperature	°C	1955	
Hydrocarbon dew point	°C	<6	
Water content	lb/Mscf	<7	
Stoichiometric air to gas ratio		10:1	
Viscosity	cP	0.01173	
Sulphur	mg/m <sup>3</sup>	≤ 15	
Compressibility factor		0.997	

<b>Component</b>	<b>volume %</b>
Nitrogen	2.29
Carbon dioxide	0.00
Methane	91.60
Ethane	3.15
Propane	1.65
i Butane	0.41
n Butane	0.48
i pentane	0.13
n pentane	0.10
neo Pentane	0.01
Hexane	0.07
Heptane	0.07
Octane	0.04
Nonane	0.00
Total	100.00

The energy content of the gas supplied may vary within 6% of the above listed values when averaged over a 24 hour period.