



CHARACTERISTICS OF PROPANE AND BUTANE (In common commercial form)

DESIGNATION		PROPANE	BUTANE
Gross calorific Value G.C.V.	{ per Nm ³ per kg	98 MJ to 130 MJ 50 MJ to 52 MJ	105 MJ to 130 MJ 47 MJ to 50 MJ
Nett calorific Value N.C.V.	{ per Nm ³ per kg	90 MJ to 93 MJ 46 MJ to 47 MJ	117 MJ to 121 MJ 45 MJ to 46 MJ
Specific weight	{ per Nm ³ per litre of liquid	1.965 kg 0.509 kg	2.637 kg 0.576 kg
Density (relative)	{ of gas of liquid	1.52 0.509	2.04 0.576
STOICHIOMETRIC VOLUME OF AIR	{ per Nm ³ of gas per kg gas	23.9 Nm ³ 12.2 Nm ³	31.1 Nm ³ 11.8 Nm ³



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Products of combustion per Nm³ of gas		
- Carbon dioxide : CO ₂	2.97 Nm ³	4.03 Nm ³
- Water vapour : H ₂ O	4.01 Nm ³	5.12 Nm ³
- Nitrogen : N ₂	18.64 Nm ³	24.26 Nm ³
- Total volume	25.62 Nm ³	33.41 Nm ³
- Weight of water	3.21 kg	4.01 kg
Products of combustion per kg of gas		
- Carbon dioxide : CO ₂	1.51 Nm ³	1.53 Nm ³
- Water vapour : H ₂ O	2.04 Nm ³	1.94 Nm ³
- Nitrogen : N ₂	9.52 Nm ³	9.26 Nm ³
- Total volume	13.07 Nm ³	12.67 Nm ³
- Weight of water	1.63 kg	1.55 kg
Boiling point at atmospheric pressure.	- 42 °C	- 0.5 °C
LATENT HEAT OF VAPORISATION per kg.	448 kJ	402 kJ