Properties of Propane and Butane

			Propane	n-Butane	Note
Formula			C^3H^8	C^4H^{10}	
Molecular Weight			44	58	
Specific Volume of Gas (Normal)			0.509㎥/kg	0.386㎥/kg	
Specific Gravity of Gas (Normal)			1.52	2.00	Heavier than air
Density of Gas(A) (Normal)			1.96 kg/㎥	2.59 kg/㎥	
Density of Liquid(B) (0℃、Saturated Vapor Pressure)			530 kg/㎥	603 kg/㎥	Half weight of water(Saturation State)
Volume Ratio of Gas to Liquid (A) / (B)			Approx. 270	Approx. 230	
Boiling Point (at Atmospheric Pressure)			−42 ℃	−0.5 ℃	
Vapor Pressure (20℃)(Gauge Pressure)			7.3 bar	1.1 bar	
Thermal Expansion of Liquid (Compare with water)			Approx. 20 times	Approx. 9 times	
Character of Combustion	Calorific Value	Per 1kg	Approx. 50 MJ	Approx. 50 MJ	Propane and Butane has the same Calorific value in the same mass.
		Per 1㎥	Approx. 99 MJ	Approx. 128 MJ	Butane calorific value is bigger than propane's in the same volume.
	Required Theoretical Air Volume for Perfect Combustion		Approx. 24 times	Approx. 31 times	
	Range of Inflammability (%)		2.1 ～ 9.5	1.8 ～ 8.4	
Others			Melt oils, fats, and natural rubber		