

Additional sometimes useful relationships	
1 mole egas contains	229 Btus
298 LPM electrolyzer requires	1.9 amps at 460 volts
1 liter egas contains	10.2 Btus
egas weighs	0.80 grams/liter
egas improves diesel engine horsepower by a factor of:	2.62
1 KW =	1.25 kVA
1 cubic foot contains	26.3 liters
298 liters egas/minute =	10.6 cubic feet/minute
1 KW =	1,000 watts
KVA x 1.07 =	Horsepower
1 mole egas =	22.4 liters egas
A 298 LPM electrolyzer produces:	0.063 gallons (239 mL) of H ₂ O per minute
egas =	15,000 joules/liter
1 liter H ₂ O electrolyzes into:	1,243 liters of egas
electricity =	3,412 Btu/kWh
242,000 joules =	229 Btus
egas =	34,116 calories/gram
egas =	142.35 joules of heat/gram
1 Btu =	1,055 joules
volts x amps x 1 hr/1000 =	1 kWh
1 kW =	3,412 Btus

1 kW =		1.341 HP
1 kW =		1,000 watts
1 kW =		3,412 Btu/hour
Autoignition of acetone =	temperature	869°F (465°C)
Autoignition of biodiesel =	temperature	351°F (177°C)
Autoignition of diesel =	temperature	410°F (210°C)
Autoignition of egas =	temperature	1,065°F (574°C)
Autoignition of diesel =	temperature	410°F (210°C)
Autoignition of hydrogen =	temperature	932°F (500°C)
Autoignition of Jet A1 fuel =	temperature	410°F (210°C)
Autoignition of kerosene =	temperature	563°F (295°C)
Autoignition of natural gas =	temperature	1,076°F (580°C)
34,116 calories released =		1 gram of H ₂ combusted
1 ton of cooling =		12,000 Btu/hr
Btu value of No. 2 Diesel =		130,000 Btu/gallon
Btu value of biodiesel B100 =		118,296 Btu/gallon
Btu value of egas =		10.2 Btu/liter
Btu value of egas =		38.6 Btus/cubic foot

The automotive engineers, combustion chemists, physicists, dedicated scientists, and senior management at *WaterSmart Environmental* welcome your inquiries with enthusiasm.

From the Engineering Department of
WaterSmart
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