



### Common Fuel Gas Properties

Fuel Gas	Formula	Specific Gravity	Specific Volume	Specific Weight	O <sub>2</sub> to fuel gas ratio**	Air to fuel gas ratio**	Neutral flame temp*		Heat of Combustion Btu/ft <sup>3</sup>
		Air = 1	ft <sup>3</sup> /lb	lb/ft <sup>3</sup>	(theoretical)	(theoretical)	O <sub>2</sub> °F	Air °F	
Natural Gas	CH <sub>4</sub>	0.62	23.6	0.042	2.0	10.0	5036	3542	1000
Propane	C <sub>3</sub> H <sub>8</sub>	1.52	8.7	0.115	5.0	23.9	5108	3595	2498
Methylacetylene-propadiene	C <sub>3</sub> H <sub>4</sub>	1.48	8.9	0.112	4.0	19.0	5301	3700	2460
Acetylene	C <sub>2</sub> H <sub>2</sub>	0.906	14.6	0.068	2.5	11.9	5612	4109	1470

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\* Approximate - available data sources show varying values

\*\* The volume units of Oxygen or Air required to completely burn a volume unit of fuel gas

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