



**CNG Services**  
of Arizona  
Compressed Natural Gas



**480-461-5166**

**What exactly is CNG?**

CNG or compressed natural gas is a domestically available, economical, clean burning, alternative fuel source for vehicles. Rather than burn gasoline or diesel fuel, a consumer would fuel their vehicle with natural gas. In order to provide enough range, the gas is compressed and stored on the vehicle in pressurized tanks. Tanks that can hold up to 3,600 psig. Sounds a little scary doesn't it? Not when you compare the physical properties of Natural Gas and gasoline.

The fact is that natural gas is a much safer fuel than gasoline. (Ever wonder why the stove in your home doesn't burn gasoline instead of natural gas?) Just take a look at the chart below for some interesting facts:

Properties	GASOLINE	DIESEL No. 2	LPG (HD-5)	CNG
Physical State	LIQUID	LIQUID	GAS	GAS
Boiling Range (°F @ 1 atm)	80 to 420	320 to 720	-44 to 31	-259 <sup>a</sup>
Density (lb/ft <sup>3</sup> ) (lb/gal)	43 to 49 5.8 to 6.5	49 to 55 6.5 to 7.3	31 <sup>b</sup> 4.1 <sup>b</sup>	8 <sup>c</sup> 1.07 <sup>c</sup>
Net Energy Content Btu/lb. Btu/gal.	18,700 - 19,100 112,000 - 121,000	18,900 123,000 - 128,000	19,800 82,000	21,300 <sup>a</sup> 22,800 <sup>a</sup>
Autoignition Temperature (°F)	450 - 900	400 - 500	920 - 1,020	1,350
Flashpoint (°F)	-45	125 (min)	-100 to -150	-300
Octane Number Range (R+M) 2	87 to 93	n/a	104 <sup>e</sup>	120 <sup>e</sup>
Flammability Limits (volume % in air)	L = 1.4 H = 7.6	L = 0.7 H = 5.0	L = 2.4 H = 9.6	L = 5.3 H = 14
Human Exposure Limit For Fuel (ppm)	500	n/a	n/a	nontoxic

**CNG Services of Arizona**

Serving The State Of Arizona  
Natural Gas Vehicle Fueling Equipment

Call 480-461-5166 for more information

