

Advantages of Autogas over other fuels:

Performance Quality and Engine Life:

- Auto LPG because of high octane content ensures smoother run.
- Lower Engine noise assures smooth and environment friendly drive.
- Unlike other fuels, no additives are required to guarantee high quality.
- Auto LPG is better than petrol resulting in improved combustion resulting in fewer knocking.
- Auto LPG extends the engine life because of the absence of acids and carbon deposits on the engine parts. One can expect Autogas vehicles to have twice the engine life than that on Petrol/Gasoline.
- Less Carbon means less fouling of Spark plugs and points i.e. less wear and tear.
- Auto LPG unlike Domestic LPG, is free of any un-saturates, sulphur and water content, which tends to corrode & damage vehicle parts.
- Since it is a Gaseous fuel, the engine oil does not get diluted resulting in increase of engine life and reduction in servicing costs.
- Unlike diesel, the user need not adjust his driving style. Cold starting is no problem, engine performance is almost exactly the same as with petrol.
- Auto LPG is totally Lead and Benzene free and is cleaner and leaves no residue.
- Much less carbon deposit on the engine and also the life of Engine oil is enhanced which does not dilute.

Fuel Economy and Cost Saves:

- Highly economical to run. Saves running cost by upto 40% than that of Petrol, besides the cost save on account of enhanced engine life and lower maintenance costs.
- The total cost of the conversion can be recovered easily from the savings accrued by use of Aegis Autogas in lieu of Petrol.
- There is no spilling when filling the tank and no possibility of theft or pilfering.
- Complete adulteration free fuel as compared to Petrol or Diesel.

Benefits to the Environment:

- The environmental advantages of Aegis Autogas for automotive use are enormous. With the use of Auto LPG, there is hardly any discharge of carbon monoxide, and compared to petrol and diesel, the exhaust fumes contain less harmful substances.
- Engine runs smoother and there is no change in the noise or vibration of the car.
- Autogas Emission Comparison:

COMPARED TO PETROL	COMPARED TO DIESEL
75% Less Carbon Monoxide	90% Less Particulates
85% Less Hydrocarbons	90% Less Oxides of Nitrogen
40% Less Oxides of Nitrogen	70% Less Ozone Forming Potential
87% Less Ozone Forming Potential	60% Less Carbon Dioxide

Safety of using Auto LPG:

Autogas has an excellent safety record throughout the world, both in terms of its storage, transportation and use. Extensive safety tests have been undertaken with respect to its use and the conclusions reached are that it is substantially safer than petrol due to its more robust fuel tank, being more resistant to impact damage. Also the electronic solenoid valves trip in case of an impact not allowing fuel to go beyond the circuit to the engine. All tanks are fitted with relief valves that provide an escape for the gas should the tank come in contact with extreme heat.

Comparison with CNG:

With high oil prices and supply concerns globally, the world is exploring the use of alternate clean fuels instead of petrol. In India, CNG and Auto LPG are the two gas based alternative to petrol. Worldwide, Auto LPG is generally preferred to CNG because of four distinct advantages:

- Auto LPG vehicles can run 3 times the distance on a full tank as compared to CNG,
- The conversion kits costs 50% less than a CNG kit,
- LPG operated vehicle require less maintenance, as CNG kits are much heavier and impact vehicle suspension, and,
- LPG kits are safer because of significantly lower tank pressure as compared to CNG. (CNG is stored at around 200-250 Bars pressure while LPG is at a pressure of 10-12 Bars, making it relatively safer).
- CNG has limited availability and has major supply issues as it cannot be easily transported. On the other hand LPG has a far better distribution and availability due to ease and safety in storage transportation.

Summary of Comparison of Auto LPG with CNG is as under:

<i>Parameters</i>	<i>Aegis Auto LPG</i>	<i>CNG</i>
<i>Physical state in Tank</i>	Liquid at 10-12 Bars Pressure	Compressed at 200-250 Bars Pressure
<i>Gas Tank</i>	Lighter in weight – approx. 20-25Kgs	3 times heavier than LPG tank – approx. 75Kgs.
<i>Distribution to Gas stations</i>	By Road Tankers	By Pipeline
<i>Distance covered by one filled Tank of a car</i>	Approx 3 times that of CNG	One Third of LPG filled tank
<i>Filling Time at Gas station</i>	Same As Petrol: 2-3 Min.	15-20 min, leading to long Queues
<i>Conversion Cost</i>	Car conversion Cost is approx. Rs. 18000/- to 22,000/-	Conversion Cost is approx. Rs.33,000/- to 40,000/-
<i>Availability of Gas</i>	Sufficient domestic production and Imports. Can be easily transported in Tankers & Cylinders.	Acute shortage. Power and fertilizer Plants starving natural gas. Needs Pipeline and hence limited geographical reach.