



What You Need to Know About Swift UL94

While the industry awaits the availability of a 100-octane unleaded avgas solution, Avfuel is proud to provide its fueling partners with Swift Fuels' UL94—a 94-octane unleaded avgas alternative to 100 low lead avgas. However, Avfuel understands any change brings a number of questions. The below is an overview of what you need to know about UL94.

Frequently Asked Questions

What is UL94?

UL94 is a 94+ motor-octane aviation gasoline produced without tetraethyl lead, meeting ASTM D7547 unleaded avgas specification. UL94 is also rated as a super-premium ethanol-free auto-gasoline with a 99 octane (R+M)/2 rating, meeting and exceeding ASTM D4814 auto fuel specification.

UL94 Unleaded Avgas has an identical density to 100LL, weighing in at 5.9 pounds per gallon. This means weight and balance calculations will not change from 100LL.

UL94 Unleaded Avgas is currently colored clear, or "water white," and smells like a mild version of 100LL, which is less pungent than auto gas.

UL94 Unleaded Avgas is sold nationwide and in select international locations.

What specification is UL94?

UL94 meets the following ASTM specifications:

- D4814 Class A-4 Auto Gas (Ethanol-Free)
- D7547 Grades UL91 and UL94 Avgas
- D7592 Grade UL94 Avgas
- D910 Grade 80 Avgas

From where does UL94 come?

UL94 is produced and sold solely by Swift Fuels from its Indiana fuel facility.

What aircraft can fuel with UL94?

UL94 Unleaded Avgas satisfies the minimum octane requirements of more than 125,000 aircraft (66% of the U.S. piston fleet) as a "drop-in ready" unleaded avgas. It requires no modifications and no hardware changes.

What are the benefits of UL94?

- **High Octane:** The fuel's premium 94 motor octane exceeds OEM requirements against detonation for all FAA-approved engines.
- **Better Health:** UL 94 is free of lead and other harmful metals, resulting in cleaner, less harmful emissions than 100LL.
- **Superior to Auto Gas:** UL94 has vapor pressure and gums identical to 100LL, inhibiting vapor lock and fuel system varnish versus using auto gas.
- **Consistent Blends:** UL94 is blended to the exact same composition all year-round nationwide, unlike auto gas, which varies monthly by state.

UL94 is also known for:

- Reliable starts
- Stable cold and hot weather performance
- Smoother operation than conventional 100LL
- No spark plug fouling
- Less frequent maintenance
- Less engine wear and tear
- Price competitive with 100LL plus a lower cost to operate

How do I receive an STC to fuel with UL94?

You can obtain an STC to fuel with UL94 at SwiftFuelsAvgas.com. STCs are \$100. Once you receive the STC certificate in the mail, register the certificate online, print all the UL94 STC forms, give the STC forms and placards to your A&P/IA mechanic, and keep the forms and registration card secure with your aircraft.