

UL91

Technical Data Sheet

UL 91 is an unleaded fuel that conforms to strict aviation standards. It is intended for piston engine aircrafts.

Qualification

• Unleaded Aviation Gasoline

Typical Properties

Property	Unit	Test Method	Test Results
Net heat of combustion	MJ/kg	ASTM D 3338-09	43.50
Motor octane number	-	ASTM D 2700-17a	91.8
Sulfur	mg/kg	ASTM D 5453-19a	1.4
Tetraethyl lead * Note 2	g/L	ASTM D 3341-16	LT 0.026
Vapor pressure equivalent at 37.8°C	kPa	ASTM D 5191-20	43.9
Density at 15°C	kg/m3	ASTM D 4052-18a	723.3
Distillation Initial boiling point 10% recovered 40% recovered 50% recovered 90% recovered Final boiling point Sum of 10% + 50% evaporated temperatures Recovery Residue Loss	- °C °C °C °C volume % volume % volume %	ASTM D 86-19	37.5 68.4 99.0 104.0 112.2 135.3 170.5 97.9 0.9
Freezing point	°C	ASTM D 2386-19	LT-65.0
Corrosion copper strip at 100°C, 2 hrs	-	ASTM D 130-19	1a

Oxidation stability (5h aging) Potential gum Precipitate	- mg/100mL mg/100mL	ASTM D 873-12	2.0 Nil
Water reaction Change in volume Condition of interface Degree of separation	- mL - -	ASTM D 1094-07	0.0 1 (1)
Electrical conductivity	pS/m	ASTM D 2624-15	17