

W2 Grade Certified Ethanol Denaturant Specifications.

(Fuel Ethanol Denaturant)

Product Property	Method	Minimum	Maximum
Gravity, °API	D287	75.0	85.0
Reid Vapor Pressure, psi	D5191	12	14
True Vapor Pressure, psi ^{3/}	D6378		11.0
Distillation,	D86		
90% Evaporated at Degree °F			365
Final Boiling Point at Degree °F			437
Color	D156	+25	
Benzene, vol %	D5580/		1.10
	D3606		
Doctor	D4952	Negative	
Sulfur, ppm	D5453/		120
	D2622/		
	D7039		
Copper Corrosion	D130		1
Haze Rating ^{2/}	D4176		2
NACE Corrosion	TM0172	B+	

Foot Notes:

- 1/ Delivered products meet all applicable requirements at time and place of delivery.
- 2/ Compliance with ASTM D4176 will be determined using Procedure 2 at the following temperatures, adjusted seasonally:

February 16 – September 30	55°Fmax
October 1 – February 15	45 °P max

3/ To be performed at 83.2°F or the applicable monthly temperature provided in Table A.

Notes:

- W2 Grade shipments may not contain any additives.
- W2 meets the requirements of certified ethanol denaturant as listed in 40 CFR 1090.275
- W2 shall be designated as certified ethanol denaturant as intended for blending with gasoline as specified in 40 CFR 1090.1010(e).

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Table A

	Average Ambient
Month	Temperatures °F
January	41.4
February	46.4
March	57.9
April	68.9
May	75.7
June	80.9
July	83.2
August	80.7
September	80.7
October	70.7
November	57.4
December	48.0

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