

W2 Grade Certified Ethanol Denaturant Specifications.

(Intended to be used to make Denatured Fuel Ethanol)

Product Property	Method	Minimum	Maximum	Deliveries ^{1/}
Gravity, °API	D287	75.0	85.0	
Reid Vapor Pressure, psi	D5191	12	14	
Distillation,	D86			
90% Evaporated at Degree °F			365	
Final Boiling Point at Degree °F			437	
Color	D156	+25		
Benzene, vol %	D5580/ D3606		1.10	
Doctor	D4952	Negative		
Sulfur, ppm	D5453/ D2622/ D7039		120	
Copper Corrosion	D130		1	
Haze Rating ^{2/}	D4176		2	3
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 °F max
October 1 – February 15	45 °P max

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).