

*Below are the primary quality specifications for denatured fuel ethanol for blending with gasoline meeting Federal requirements. The state of California has additional restrictions that apply in addition to the performance requirements in ASTM D 4806.*

**Section: BIOFUELS**

**Specifications Contained in ASTM D 4806 Standard Specification for Denatured Fuel Ethanol for Blending with Gasoline**

<b>Property</b>	<b>Specification</b>	<b>ASTM Test Method</b>
Ethanol volume %, min	92.100	D 5501
Methanol, volume %, max	0.500	
Solvent-washed gum, mg/100 ml max	5.000	D 381
Water content, volume %, max	1.000	E 203
Denaturant content, volume %, min	1.960	
volume %, max	4.760	
Inorganic Chloride content, mass ppm (mg/L) max	40.000	D 512
Copper content, mg/kg, max	0.100	D1688
Acidity (as acetic acid CH <sub>3</sub> COOH), mass percent (mg/L), max	0.007	D1613
pHe	6.5-9.0	D 6423
Appearance	precipitated contaminants (clear & bright)	

**Source:**

Renewable Fuels Association, Industry Guidelines, Specifications, and Procedures.

<http://www.ethanolrfa.org/pages/industry-resources-guidelines>

**Note:** ASTM = American Society for Testing and Materials