



## PRODUCT DATA SHEET

### Denatured Fuel Ethanol – ASTM D4806

#### CHEMICAL AND PHYSICAL PROPERTIES

<u>PARAMETER</u>	<u>ACCEPTANCE CRITERIA</u>	<u>METHOD</u>
ETHANOL, % BY VOLUME	92.1 MINIMUM	ASTM D-5501
METHANOL, % BY VOLUME	0.5 MAXIMUM	ASTM D-5501
SOLVENT-WASHED GUM, mg/100ml	5 MAXIMUM	ASTM D-381 ①
WATER, % BY VOLUME	1 MAXIMUM	ASTM E-1064
INORGANIC CHLORIDE, mg/L	5 MAXIMUM	ASTM D-7319 ①
COPPER, mg/kg	0.1 MAXIMUM	ASTM D-1688 ①
ACIDITY (AS ACETIC ACID) mg/kg	70 MAXIMUM	ASTM D-7795
pHE	6.5 - 9.0	ASTM D-6423
SULFUR, mg/kg	10 MAXIMUM	ASTM D-5453 ①,②
EXISTENT SULFATE, mg/kg	4 MAXIMUM	ASTM D 7319
APPARENT PROOF	REPORT ONLY	HYDROMETER
DENATURANT CONTENT, VOL%	1.96-2.50	VOLUMETRIC, METERED
BENZENE, VOL%	0.06 MAXIMUM	ASTM D-5580 ②
OLEFINS, VOL%	0.05 MAXIMUM	ASTM D-6550 ②
AROMATICS, VOL%	1.7 MAXIMUM	ASTM D-5580 ②

This product meets or exceeds ASTM D4806 specifications. This is the standard denatured ethanol product for the domestic U.S. market.

✦ Bulk product is available in truckload and railcar quantities. ✦

Notes:

- ① Tested by third party laboratory.
- ② Denaturant meets CARB and US EPA Tier-III specifications.

This information is presented in good faith but is not warranted as to the accuracy of results. This information is offered solely for your consideration.