LAB ALLEY
ESSENTIAL CHEMICALS

PRODUCT SPECIFICATION SHEET

Ethyl Alcohol 190 Proof (95%), Pure, Non-Denatured

Meets USP/FCC Monographs

Grain Derived Ethanol

Test	Specification	Typical Results
Assay (by specific gravity@15.56oC)	94.9% - 96.0% (by volume)	95.01%
Assay (by specific gravity@25oC)	NLT 94.9%	95.01%
Proof	Lot Analysis	190.0
Identification Test A (Specific Gravity)	It meets the requirements of the test for Specific Gravity	Pass
Solubility in Water	To Pass Test	Pass
Specific Gravity @ 15.56°C	0.812 - 0.816	0.8158
Specific Gravity @ 25.0°C	Not more than 0.8096	0.8092
Identification Test B (Infrared Spectroscopy)	Conforms to Infrared Spectra	Pass
Identification C (Limit of Methanol)	NMT 200 µL/L (200ppm) of Methanol	Pass
Acidity or Alkalinity	The solution is pink (30ppm, expressed as acetic acid)	Pass
Acidity (as acetic acid)	<0.003%	<0.003%
Alkalinity (as NH3)	<3 mg/kg	<3 mg/kg
Organic Impurities - Fusel Oil	To Pass Test	Pass
Ketones, Isopropyl Alcohol	To Pass Test	Pass
Lead	NMT 0.5 mg/kg	<0.5 mg/kg
Substances Darkened by Sulfuric Acid	To Pass Test	Pass
Substances Reducing Permanganate	To Pass Test	Pass
Nonvolatile Residue	NMT 0.003%	<0.001%
UV Absorbance	Examine between 235nm – 340nm. 240nm 0.40 max. 250nm-260nm 0.30 max. 270nm-340nm 0.10 max. The spectrum shows a steadily descending curve with no observable peaks or shoulders	 0.34 0.15 0.05 Pass
Methanol	200 ppm max	<5 ppm
Acetaldehyde and Acetal	10ppm max	<1 ppm
Benzene	2ppm max.	<1 ppm
Sum of all other impurities	300ppm max.	<20 ppm

Appropriate/legal use of this product is the responsibility of the user

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