



Product Specification Sheet
ETHYL ALCOHOL 95%
Meets USP/FCC GRADE Monographs
KOSHER

Grain Derived Ethanol

Recommended Retest Date: Three Years from Date of Manufacture*

Product Code #: 111USP/FCC190

Available in the following sizes:

*Refer to Master Price List – Individual package sizes have unique size codes

TEST	MONOGRAPH	SPECIFICATION	TYPICAL RESULT
Assay (by specific gravity@15.56°C) Assay (by specific gravity@25°C)	USP FCC	94.9% - 96.0% (by volume) NLT 94.9%	95.01%
Proof	27CFR 30.23	Lot Analysis	190.0
Identification Test A (Specific Gravity)	USP	It meets the requirements of the test for Specific Gravity	Pass
Specific Gravity	USP FCC	0.812 - 0.816 @ 15.56°C Not more than 0.8096 @ 25.0°C	0.8158 0.8092
Identification Test B (Infrared Spectroscopy) Identification (Infrared Spectra)	USP FCC	Conforms to IR Spectra	Pass
Identification Test C (Limit of Methanol)	USP	NMT 200 µL/L (200ppm) of Methanol	Pass
Solubility in Water	FCC	No haze or turbidity develops	Pass
Color of Solution	USP	The Sample solution has the appearance of water or is not more intensely colored than the standard solution	Pass
Clarity of Solution	USP	Sample Solutions show the same clarity as that of water, or their opalescence is not more pronounced than that of Standard suspension	Pass
Acidity or Alkalinity Acidity (as acetic acid) Alkalinity (as NH3)	USP FCC FCC	The solution is pink (30ppm, as acetic acid) <0.003% <3 mg/kg	Pass <0.003% <3 mg/kg
Organic Impurities - Fusel Oil	FCC	To Pass Test	Pass
Organic Impurities – Ketones, Isopropyl Alcohol	FCC	To Pass Test	Pass
Inorganic Impurities - Lead	FCC	NMT 0.5 mg/kg	<0.5 mg/kg
Organic Impurities – Substances Darkened by Sulfuric Acid	FCC	To Pass Test	Pass
Organic Impurities – Substances Reducing Permanganate	FCC	To Pass Test	Pass
Limit of Nonvolatile Residue Nonvolatile Residue	USP FCC	NMT 2.5 mg NMT 0.003%	0.5mg <0.001%
UV Absorbance	USP	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
Organic Impurities	USP	Methanol 200 ppm max. Acetaldehyde and Acetal 10ppm max Benzene 2ppm max. Sum of all other impurities 300ppm max.	<5 ppm <1 ppm <1 ppm <20 ppm



TEST	MONOGRAPH	SPECIFICATION	TYPICAL RESULT
Organic Impurities – Methanol and Other Volatile Impurities	FCC	Methanol 200 ppm max. Any other single impurity 1000 ppm max. Sum of all impurities 5000 ppm max.	<5 ppm <1 ppm <20 ppm

Form: Ethanol, Pure, 190, USP/FCC, rev. 1.7, 10/20, KAD

This product is for further commercial manufacturing, laboratory or research use, and may be used as an excipient or a process solvent for pharmaceutical purposes. It is not intended for use as an active ingredient in drug manufacturing nor as a medical device or disinfectant. Appropriate/legal use of this product is the responsibility of the user.