

PRODUCT SPECIFICATION SHEET
ETHYL ALCOHOL 200 PROOF
Meets USP / FCC GRADE Monograph
Grain Derived Ethanol

Catalog Number: 111USP/FCC200

Test	Monograph	Specification	Typical Results
Assay (v/v)	USP FCC	NLT 99.5% NLT 94.9%	99.98%
Proof	27CFR 30.23	Lot Analysis	200.0
Specific Gravity	USP FCC	NMT 0.7962 at 15.56°C Not more than 0.8161 @ 15.56°C	0.7938
Specific Gravity	FCC	Not more than 0.8096 @ 25.0°C	0.7872
Identification A (Specific Gravity)	USP	Meets the requirements of the test for Specific Gravity	Pass
Identification B (Infrared Spectroscopy)	USP	Conforms to Infrared Spectra (Neat)	Pass
Identification Test C (Limit of Methanol)	USP	NMT 200 µL/L (200ppm) of Methanol	Pass
Appearance	FCC	Clear, colorless, mobile liquid	Pass
Clarity of Solution	USP	Sample Solution A & B show the same clarity as that of water, or their opalescence is not more pronounced than that of Standard suspension A	Pass
Color of Solution	USP	The Sample solution has the appearance of water or is not more intensely colored than the Standard solution	Pass
Solubility in Water	FCC	To Pass Test	Pass
Nonvolatile Residue	FCC	NMT 0.003%	<0.001%
Limit of Nonvolatile Residue	USP	The weight of the residue does not exceed 2.5mg	<1.0mg
Organic Impurities – Ketones / Isopropyl Alcohol	FCC	To Pass Test	Pass
Inorganic Impurities – Lead	FCC	No more than 0.5 mg/kg	Pass
Organic Impurities – Fusel Oil	FCC	To Pass Test	Pass
Acidity	FCC	NMT 0.003%	<0.001%
Alkalinity	FCC	NMT 3mg/kg	<3mg/kg
Acidity or Alkalinity	USP	The solution is pink (30ppm, expressed as acetic acid)	Pass

Test	Monograph	Specification	Typical Results
Organic Impurities – Substances Darkened by Sulfuric Acid	FCC	To Pass Test	Pass
Organic Impurities – Substances Reducing Permanganate	FCC	To Pass Test	Pass
Ultraviolet Absorbance	USP	NMT 0.40 at 240 nm NMT 0.30 between 250 nm and 260 nm NMT 0.10 between 270 nm and 340 nm	0.29 0.11 0.02
Organic Impurities	USP	Methanol NMT 200ppm Acetaldehyde and Acetal NMT 10ppm Benzene NMT 2ppm Sum of all other impurities NMT 300ppm	<5 ppm None Detected None Detected <10 ppm
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, 200, USP/FCC, Rev 1.2, 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.