

## PRODUCT SPECIFICATION SHEET

### ETHYL ALCOHOL 200 PROOF, ABSOLUTE

**Meets ACS/USP GRADE Monographs**

Current Catalog #: 111000200-Size Code\*

Alternative Catalog # 111USP200, 111ACS200-Size Code\*

*Grain Derived Ethanol*

Available in the following sizes:

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

**This product meets or exceeds all specifications as set forth in the current ACS/USP monographs.**

TEST	Monograph	SPECIFICATION	Typical Results	
Assay (by GC, corrected for water)	ACS	NLT 99.5%	99.98%	
Assay (by specific gravity@15.56°C)	USP	NLT 99.5%	99.99%	
Water (wt%)	ACS	NMT 0.2%	0.02%	
Proof	27CFR 30.23	Lot Analysis	200.0	
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 C (Limit of Methanol)	USP	NMT 200 µL/L (200ppm) of Methanol	Pass	
Color (APHA)	ACS	NMT 10	<10	
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	ACS	To Pass Test	Pass	
Specific Gravity	USP	NMT 0.7962 at 15.56C	0.7938	
Residue on Evaporation	ACS	NMT 0.001%	<0.001%	
Limit of Nonvolatile Residue	USP	The weight of the residue does not exceed 2.5mg	<1.0 mg	
Acetone/Isopropyl Alcohol	ACS	To Pass Tests	Pass	
Titration Acid	ACS	NMT 0.0005 meq/g	<0.0003 meq/g	
Titration Base	ACS	NMT 0.0002 meq/g	<0.0001 meq/g	
Acidity or Alkalinity	USP	The solution is pink (30ppm, expressed as acetic acid)	Pass	
Methanol	ACS	NMT 0.1%	<0.1%	
Substances Darkened by Sulfuric Acid	ACS	To Pass Test	Pass	
Substances Reducing Permanganate	ACS	To Pass Test	Pass	
Ultraviolet Absorption	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 The spectrum shows a steadily descending curve with no observable peaks or shoulders	0.29 0.11 0.02 Pass	
Organic Impurities	USP	Methanol Acetaldehyde and Acetal Benzene Sum of all other impurities	NMT 200ppm NMT 10ppm NMT 2ppm NMT 300ppm	<5 ppm None Detected None Detected <10 ppm

Form: Ethanol, Pure, 200, ACS/USP, #101, Rev 4.9, 08/20, PJM



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.