



**Certificate of Analysis**  
**ETHYL ALCOHOL 200 PROOF, ABSOLUTE**

ACS/USP GRADE

LOT # LR5178

QC # C1110272

Date of Manufacture: 10/31/11

Recommended Retest Date: Three Years from Date of Manufacture\*

Main Catalog #: 111000200, E200

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

TEST	Monograph	SPECIFICATION	Results	
Assay (v/v)	ACS/USP	NLT 99.5%	99.99%	
Water (w/w)	ACS	NMT 0.2%	<0.02%	
Proof	27CFR 30.23	Lot Analysis	200.0	
Specific Gravity	Pharmco	0.7900-0.7932 @ 20°C	0.7905	
Specific Gravity	USP	Not more than 0.7962 @ 15.56°C	0.7937	
Identification Test A	USP	It complies with the test for Specific Gravity	Pass	
Identification Test B	USP	Conforms to Infrared Spectra	Pass	
Color (APHA)	ACS	NMT 10	1	
Clarity of Solution	USP	Test Solution A & B show same clarity as that of water, or their opalescence is not more pronounced than that of Reference suspension A	Pass	
Color of Solution	USP	The Test 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	
Nonvolatile Residue	ACS	NMT 0.001%	0.000%	
Limit of Nonvolatile Residue	USP	The weight of the residue does not exceed 2.5mg	0.0mg	
Acetone/IPA	ACS	To Pass Tests	Pass	
Titration Acid	ACS	NMT 0.0005 meq/g	<0.0002meq/g	
Titration Base	ACS	NMT 0.0002 meq/g	<0.0001meq/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 Absorbance	USP	240nm	0.40 max.	0.33
		250nm	0.30 max.	0.11
		260nm	0.30 max.	0.03
		270nm	0.10 max.	0.01
		340nm	0.10 max.	0.00
		Absorption curve between 235nm – 340nm is smooth		
Ultra Violet Absorbance purged of O <sub>2</sub>	ACS	To Pass Test	Pass	
Volatile Impurities	USP	Methanol	100 ppm max.	None detected
		Sum of Acetal and Acetaldehyde	10ppm max	3ppm
		Benzene	2ppm max.	None detected
		Sum of all secondary peaks	300ppm max.	3ppm

Form: Ethanol, Pure, 200, ACS/USP, #101, Rev 4.4, 6/08, SAK

Approved by: J. Polis, Quality Control Chemist

Disclaimer: For Industrial, Pharmaceutical, Flavor & Fragrance or Lab Use. Not intended for use as an active substance in Food or Drug. Not to be considered a Medical Device. Not intended for use as a Disinfectant as defined by the EPA. The appropriate use of this product is the sole responsibility of the user. (Rev. # disclaimer only, rev 3.5 11/06 EF)

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