

Product Specification Sheet

**Harmonized USP/BP/EP Alcohol
 Absolute, Dehydrated, Anhydrous
 (200 PROOF)
 Pure ETHANOL**

**This product meets or exceeds the 2003 USP Specifications
 This product meets or exceeds the 2000 Harmonized BP/EP Specifications.**

Main Catalog No.: 111000200 Alt. Cat. No: 111USP/EP200

Available in 4x1 gallon Poly/glass, 4x4 liter glass, 5 gallon metal/poly, 55 gallon poly/metal

Note(s)	Pharmco's Specific Gravity, Relative Density, Assay and Proof is more stringent than those listed in their respective monographs (USP/BP/EP) in order to harmonize these specifications.			
TEST	MONO GRAPH	SPECIFICATION	RESULT	
Specific Gravity	Meets USP & conforms to BP/EP	Not More Than 0.7962 @ 15.56°C	0.7936	
Relative Density	Meets BP/EP & conforms to USP	0.790 – 0.793	0.7904	
Assay (Ethanol) V/V	USP/BP/EP	Not less than 99.5% by Volume	99.98%	
Proof (20C)	USP/BP/EP	Not less than 199.0 proof	200.0	
Identification Test A	USP BP/EP	It complies with the test for Specific Gravity It complies with the test for Relative Density	Pass Pass	
Identification Test B	USP/BP/EP	Conforms to IR Spectra	Pass	
Identification Test C	BP/EP	An intense blue color appears on the paper and becomes paler after 10-15 minutes	Pass	
Identification Test D	BP/EP	A yellow precipitate is formed within 30minutes	Pass	
Color of Solution	USP	The Test solution has the appearance of water or is not more intensely colored than the standard solution	Pass	
Clarity of Solution	USP	Test Solution A & B show the same clarity as that of water, or their opalescence is not more pronounced than that of Reference Suspension A	Pass	
Appearance	BP/EP	Colorless, clear, volatile, flammable liquid, hygroscopic	Pass	
Acidity or Alkalinity	USP/BP/EP	The solution is pink (30ppm, expressed as acetic acid)	Pass	
Limit of Nonvolatile Residue Residue on Evaporation	USP BP/EP	Less than 2.5 mg of residue (25 ppm)	<10 ppm	
UV Absorbance	USP/BP/EP	240nm	0.40 max.	0.06
		250nm	0.30 max.	0.02
		260nm	0.30 max.	0.01
		270nm	0.10 max.	0.01
		340nm	0.10 max.	0.00
		Absorption curve between 235nm – 340nm is smooth		Pass

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. *excluding UV/Vis for 200 proof ethanol (See shelf life statement). (Rev. # disclaimer 200 proof only: Rev 3.4 10/05/05 PJM)



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The Power of Three³

Volatile Impurities	USP/BP/EP	Methanol	100 ppm	<10 ppm
		Sum of Acetal and Acetaldehyde	10ppm max	<1 ppm
		Benzene	2ppm max.	<1 ppm
		Sum of all secondary peaks	300ppm max.	<20 ppm

Form: Ethanol, Pure, 200, USP/EP Rev. 2.4 11/11/05JH

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An ISO 9001:2000
Certified Company

Pharmco Products Inc. 58 Vale Road, Brookfield, CT 06804 1-800-243-5360 www.pharmco-prod.com
Aaper Alcohol & Chemical Co., Inc. 1101 Isaac Shelby Drive, Shelbyville, KY 40065 1-800-456-1017 www.aaper.com

DOT INFORMATION
Ethanol Solutions

Hazard Class: 3
UN 1170
PG: II

Ethanol CAS No. 64-17-5
DSP-CT-18

KOSHER, NOT KOSHER
FOR PASSOVER USE



BATCH NO:
SERIAL NO:
QC #:
WINE GALLONS: 4.2
PROOF: 200
PROOF GALLONS: 8.4
GROSS WEIGHT: 42 lb.
TARE WEIGHT: 15 lb.
NET WEIGHT: 27 lb.

DANGER: FLAMMABLE LIQUID & VAPOR. Keep away from all sources of ignition. Improper Exposure Can Result in Injury or Death! Wear all recommended protective equipment. Refer to MSDS for additional information.*

STORAGE AND HANDLING: Keep in a cool, dry place. Do not expose to direct sunlight. Use only with proper personal protective equipment and ventilation. Refer to MSDS for additional information.*

REFER TO MSDS PRIOR TO USE. Use Only Under Appropriate Conditions. Use Only Under Trained Supervision.*

FIRST AID: SEEK IMMEDIATE MEDICAL ATTENTION. REFER TO MSDS FOR APPROPRIATE FIRST AID FOR THIS CHEMICAL.* FOR INDUSTRY/PHARMA/LAB USE ONLY. Not intended as an active substance in Food or Drug. Not to be considered a Med. Device. Not intended for use as a Disinfectant as defined by the EPA.*



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The Power of Three³

**Harmonized USP/BP/EP Alcohol
Dehydrated-Absolute-Anhydrous
200 Proof Pure Ethanol**

Certificate of Conformance

We certify that Lot #
meets or exceeds the following monographs:

- ◆ Current USP
- ◆ Current Harmonized BP/EP

*See certificate of analysis for actual data for this lot

Product Packaging:
Catalog #/Product Code: 1110000EP200CS4L
Expiration Date:
Quantity for Delivery:
Purchase Order #:
Customer:



1110000EP200