



Product Specifications Sheet

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

**This product meets or exceeds the current USP Specifications
 This product meets or exceeds the current Harmonized BP/EP Specifications
 This product meets or exceeds the current JP Specifications**

CATALOG NUMBER: zp1110EP/JP200

TEST	MONO GRAPH	SPECIFICATION	TYPICAL RESULT
	Note(s) Pharmco's Specific Gravity, Relative Density, Assay and Proof is more stringent than those listed in their respective monographs (USP/BP/EP/JP) in order to harmonize these specifications.		
Specific Gravity	Meets USP & conforms to BP/EP	Not More Than 0.7962 @ 15.56°C	0.7940
Specific Gravity	JP	d ¹⁵ / ₁₅ 0.794 – 0.797	0.794
Relative Density	Meets BP/EP & conforms to USP	0.790 – 0.793	0.7905
Assay (Ethanol) V/V	USP/BP/EP/JP	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 (1)	JP	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/JP	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
Clarity of Solution	JP	The mixture remains clear	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
Acid or alkali	JP	No color develops/A light red color develops upon addition of NaOH	Pass

This document has been electronically generated and is therefore not signed. A signed copy can be obtained from Pharmco's Quality Control office.

Approved by: E. Frenkel, Director of Quality

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 pure Ethyl Alcohol (See shelf life statement). (Rev. # disclaimer only: Rev 3.5 11/06 EF)



THE POWER OF THREE³

PHARMCO-AAPER

AND COMMERCIAL ALCOHOLS

Limit of Nonvolatile Residue Residue on Evaporation	USP BP/EP/JP	Less than 2.5 mg of residue (25 ppm) Less than 2.5 mg of residue (25 ppm)	<10 ppm
UV Absorbance Other Impurities (absorbance)	USP/BP/EP JP	240nm	0.40 max. 0.34
		250nm	0.30 max. 0.15
		260nm	0.30 max. 0.09
		270nm	0.10 max. 0.05
		340nm	0.10 max. 0.00
		Absorption curve between 235nm – 340nm is smooth	Pass
Volatile Impurities	USP/BP/EP	Methanol	100 ppm <10 ppm
		Sum of Acetal and Acetaldehyde	10ppm max <1 ppm
		Benzene	2ppm max. <1ppm
		Sum of all secondary peaks	300ppm max. <50ppm
	JP	Meets the requirements of the test	Pass

Form: Ethanol, Pure, 200, USP/BP/EP/JP Rev. 4.4, 08/08, SJK

This document has been electronically generated and is therefore not signed. A signed copy can be obtained from Pharmco's Quality Control office.

Approved by: E. Frenkel, Director of Quality

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 pure Ethyl Alcohol (See shelf life statement). (Rev. # disclaimer only: Rev 3.5 11/06 EF)

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-XX-##

KOSHER, NOT KOSHER
 FOR PASSOVER USE



XXX XXXX
 BATCH NO: #####
 SERIAL NO: XXXXXXXX
 QC #: #####
 WINE GALLONS: 4.2
 PROOF: 200
 PROOF GALLONS: 8.4
 NET WEIGHT: 27.8 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/PHARMLAB 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.*



58 Yale Road, Brookfield, CT 06804 1101 Isaac Shelby Drive, Shelbyville, KY 40065
 P: 800-243-5360 F: 203-740-3481 P: 800-456-1017 F: 502-633-0685
 www.pharmcoaper.com

An ISO9001:2000
 Certified Company



THE POWER OF THREE³
PHARMCO-AAPER
 AND COMMERCIAL ALCOHOLS

**Harmonized USP/BP/EP/JP
 Absolute-Dehydrated-Anhydrous
 Ethyl Alcohol 200 Proof**

Certificate of Conformance

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

◆Current USP	◆Current EP
◆Current BP	◆Current JP

*See certificate of analysis for actual data for this lot

Product Packaging:	Case 4 X 4L Glass Bottles
Catalog #/Product Code:	zp1110EP/JP200CS4L
Fill Date:	XXXXXXXXXXXX ##, ####
Recommended Retest Date:	XXXXXXXXXXXX ####
Quantity for Delivery:	XXX XXXX
Purchase Order #:	#####
Customer:	XXXXXXXXXXXXXXXXXXXXX



Ethyl Alcohol 200 EP/JP-4X4-11m REV 10/1808 P.31