



PRODUCT SPECIFICATION SHEET
ETHYL ALCOHOL 200 PROOF, ABSOLUTE
ACS/USP GRADE

Current Catalog #: 111000200-Size Code*
 Alternative Catalog # E200, 111USP200, 111ACS200-Size Code*
 Old Cat# 112000200, 112USP200, 112ACS200-Size Code*

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 (v/v)	ACS/USP	NLT 99.5%	99.98%	
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	0.7904	
Specific Gravity	USP	Not more than 0.7962 @ 15.56°C	0.7935	
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	<10	
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%	<0.001%	
Limit of Nonvolatile Residue	USP	The weight of the residue does not exceed 2.5mg	<1.0mg	
Acetone/IPA	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%	<0.001%	
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.	0.29
		250nm	0.30 max.	0.11
		260nm	0.30 max.	0.04
		270nm	0.10 max.	0.02
		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/V is for 200 proof ethanol (See shelf life statement). (Rev. # disclaimer 200 proof only: Rev 3.4 10/05/05 PJM)

THE POWER OF THREE³**PHARMCO-AAPER**

AND COMMERCIAL ALCOHOLS

Ultra Violet Absorbance purged of O ₂	ACS	To Pass Test	Pass	
Volatile Impurities	USP	Methanol	100 ppm	<20 ppm
		Sum of Acetal and Acetaldehyde	10ppm max	<1 ppm
		Benzene	2ppm max.	<1 ppm
		Sum of all secondary peaks	300ppm max.	<50 ppm

Form: Ethanol, Pure, 200, ACS/USP, #101, Rev 4.3, 6/08, SAK

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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



THE POWER OF THREE³

PHARMCO-AAPER

AND COMMERCIAL ALCOHOLS

ETHYL ALCOHOL
200 Proof - Absolute, Anhydrous
ACS/USP GRADE

Main Catalog No: 111000200

55 Gallons(363.5 Lbs net)



TEST	SPECIFICATIONS	TYPICAL
Assay v/v (ACS, USP)	NLT 99.5%	99.98%
Water w/w (ACS)	NMT 0.2%	0.02%
Proof 27CFR 30.23	Lot Analysis	200.0
Specific Gravity @ 20°C (Pharmco)	0.7900-0.7932	0.7904
Specific Gravity @ 15.56C (USP)	NMT 0.7962	0.7935
ID Test A (USP)	Complies	Pass
ID Test B (USP)	Conforms	Pass
Color (APHA) (ACS)	NMT 10	<10
Clarity of Solution (USP)	To Pass Test	Pass
Color of Solution (USP)	To Pass Test	Pass
Solubility in Water (ACS)	To Pass Test	Pass
NonVolatile Residue (ACS)	NMT 0.001%	<0.001%
Limit of Nonvolatile Residue (USP)	<2.5mg	<1.0mg
Acetone/IPA (ACS)	To Pass Test	Pass
Titration Acid (ACS)	NMT 0.0005meq/g	<0.0003meq/g
Titration Base (ACS)	NMT 0.0002meq/g	<0.0001meq/g
Acidity or Alkalinity (USP)	To Pass Test	Pass
Methanol (ACS)	NMT 0.1%	0.001%
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.	0.29
	250nm 0.30 max.	0.11
	260nm 0.30 max.	0.04
	270nm 0.10 max.	0.02
	340nm 0.10 max.	0.00
Absorption between 235nm-340nm	Curve is smooth	Pass
Ultraviolet Absorbance purged of O2 (ACS)	To Pass Test	Pass
Volatile Impurities (USP): Methanol	100ppm max.	<20ppm
Sum of Acetal & Acetaldehyde	10ppm max.	<1ppm
Benzene	2ppm max.	<1ppm
Sum of all secondary peaks	300ppm max.	<50ppm

LOT NO:
 BATCH NO:
 SERIAL NO:
 WINE GALLONS: 55.0
 PROOF: 200
 PROOF GALLONS: 110.0

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. Refer to MSDS PRIOR TO USE. Use Only Under Appropriate Conditions. Use Only Under Trained Supervision. 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. 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. Based on the lot #, this material may be a product of Canada. Packaged in the USA.

SHIP TO:

Expiration Date:



pharmco
 PRODUCTS INC
 ABSOLUTE PURITY

AAPER
 ABSOLUTE VALUE

58 Vale Road, Brookfield, CT 06804 1101 Isaac Shelby Drive, Shelbyville, KY 40065
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Ethyl Alcohol 200-ACS-USP-55gal-Wm Rev 09/08
 Teklynx LABELVIEW Dem