

THE POWER OF THREE³**PHARMCO-AAPER**

AND COMMERCIAL ALCOHOLS

**PRODUCT SPECIFICATION SHEET
ETHYL ALCOHOL 95% HPLC-UV
ACS/USP GRADE**

Catalog # / Product Code: 111HPLC190-Size Code*

Available in the following sizes:

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

TEST	MONOGRAPH	SPECIFICATION	Results
Assay	ACS USP	NLT 95.0% v/v 94.9-96.0% v/v	95.01%
Proof	27CFR 30.23	Lot Analysis	190.0
Solubility in Water	ACS	To Pass Test	Pass
Acetone/IPA	ACS	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
Color (APHA)	ACS	NMT 10	<10
Titration Acid	ACS	NMT 0.0005 meq/g	0.0003
Titration Base	ACS	NMT 0.0002 meq/g	0.0001
Acidity or Alkalinity	USP	The solution is pink (30ppm, expressed as acetic acid)	Pass
Identification Test A	USP	It complies with test for Specific Gravity	Pass
Identification Test B	USP	Conforms to Infrared Spectra	Pass
Specific Gravity @ 15.56°C	USP	0.812 - 0.816 @ 15.56°C	0.8156
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
Color of Solution	USP	The Test solution has the appearance of water or is not more intensely colored than the standard solution	Pass
Ultraviolet absorption	USP	240nm	0.40 max. 0.21
		250nm	0.30 max. 0.08
		260nm	0.30 max. 0.04
		270nm	0.10 max. 0.02
		340nm	0.10 max. 0.01
		Absorption curve between 235nm – 340nm is smooth	
Ultraviolet absorption	ACS	210nm	0.40 max. 0.36
		220nm	0.25 max. 0.21
		230nm	0.15 max. 0.11
		240nm	0.05 max. 0.04
		270nm – 400nm	0.01 max. 0.00
Liquid Chromatography	ACS	To Pass Test	Pass
Limit of nonvolatile impurities	USP	The weight of the residue does not exceed 2.5mg	<1.0 mg
Nonvolatile Residue	ACS	NMT 0.001%	<0.001%

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 3.3 10/05/05 PD)

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



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Volatile Impurities	USP	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, 190, ACS/USP, #201, Rev. 2.3, 6/08, SAK

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DOT INFORMATION
 Ethanol Solutions
 Hazard Class: 3
 UN 1170
 PG: II
 ETHANOL CAS NO. 64-17-5
 WATER CAS NO. 7732-18-5
DSP-CT-18
 Based on the lot #, this material may be a product of Canada
 Packaged in the USA *

KOSHER, NOT KOSHER FOR PASSOVER USE



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FLAMMABLE LIQUID

CHEMTREC NO.

1-800-424-9300

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SHIP TO:



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. *
FIRST AID: SEEK IMMEDIATE MEDICAL ATTENTION. REFER TO MSDS FOR APPROPRIATE FIRST AID FOR THIS CHEMICAL. *
REFER TO MSDS PRIOR TO USE. Use Only Under Appropriate Conditions. Use Only Under Trained Supervision. *
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. *

Expiration Date:



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58 Vale 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

Teklynx LABELVIEW Demo

ETHYL ALCOHOL 190 PROOF
General Use HPLC - UV-Reagent Grade ACS/USP
 Main Cat. No: 111000190, E190GHPLC

WINE GALLONS= 4.2	LOT NO.	4x4 Liters
PROOF= 190	BATCH NO.	(28.5 Lbs net)
PROOF GALLONS= 8.0	SERIAL NO:	

Test	Specifications	Typical Results
Assay (ACS)	NLT 95.0% v/v	95.01%
(USP)	94.9-96.0% v/v	95.01%
Proof (27 CFR 30.23)	Lot Analysis	190.0
Solubility in Water(ACS)	To Pass Test	Pass
Acetone/ IPA (ACS)	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
Color (APHA) (ACS)	NMT 10	<10
Titration Acid (ACS)	NMT 0.0005 meq/g	0.0003meq/g
Titration Base (ACS)	NMT 0.0002 meq/g	0.0001meq/g
Acidity or Alkalinity (USP)	To Pass Test	Pass
Identification Test A (USP)	Complies w/Specific Gravity	Pass
Identification Test B (USP)	Conforms to Infrared Spectra	Pass
Specific Gravity@ 15.56 C (USP)	0.812-0.816	0.8156
Clarity of Solution (USP)	To Pass Test	Pass
Color of Solution (USP)	To Pass Test	Pass
Ultraviolet Absorption (USP) 240nm	0.40 max.	0.21
250nm	0.30 max.	0.08
260nm	0.30 max.	0.04
270nm	0.10 max.	0.02
340nm	0.10 max.	0.01
Absorption curve 235-340nm	Curve is smooth	Pass
Ultraviolet Absorption (ACS) 210nm	0.40 max.	0.36
220nm	0.25 max.	0.21
230nm	0.15 max.	0.11
240nm	0.05 max.	0.04
270-400nm	0.01 max.	0.00
Liquid Chromatography (ACS)	To Pass Test	Pass
Limit of Nonvolatile impurities (USP)	<2.5mg	<1.0mg
Nonvolatile Residue (ACS)	NMT 0.001%	<0.001%
Volatile impurities (USP): Methanol	100ppm max.	<10ppm
Sum of Acetal & Acetaldehyde	10ppm max.	<1ppm
Benzene	2ppm max.	<1ppm
Sum of all secondary peak.	300ppm max.	<20ppm

Meets all other applicable ACS/USP Specifications. *



EthylAlc 190-HPLC-UV/ACS/USP-4x4L-Wim REV 09/08