

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

**Catalog # / Product Code: 111000190-Size Code\***

Available in the following sizes:

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

TEST	MONOGRAPH	SPECIFICATION	RESULT
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 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
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	0.8158
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. 250nm 0.30 max. 260nm 0.30 max. 270nm 0.10 max. 340nm 0.10 max. Absorption curve between 235nm – 340nm is smooth	0.21 0.08 0.04 0.02 0.01 Pass
Limit of nonvolatile residue	USP	The weight of the residue does not exceed 2.5mg	<1.0mg
Nonvolatile Residue	ACS	NMT 0.001%	< 0.001%
Volatile Impurities	USP	Methanol 100 ppm max. Sum of Acetal and Acetaldehyde 10ppm max. Benzene 2ppm max. Sum of all secondary peaks 300ppm max.	<5 ppm <1 ppm <1 ppm <20 ppm

Form: Ethanol, Pure, 190, ACS/USP, #201, Rev. 2.4, 6/08, SAK

**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)

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

KOSHER, NOT KOSHER  
FOR PASSOVER USE



THE POWER OF THREE<sup>3</sup>  
**PHARMCO-AAPER**  
AND COMMERCIAL ALCOHOLS

# ETHYL ALCOHOL 190 PROOF

## ACS/USP GRADE

Main Catalog No: 111000190  
Alt. Cat. No: 111USP190, 111ACS190

55 Gallons (373.5 Lbs net)



TEST	SPECIFICATIONS	TYPICAL
Assay (ACS)	NLT 95.0% v/v	95.01%
Assay (USP)	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 0.0005meq/g	<0.0003meq/g
Titration Base (ACS)	NMT 0.0002meq/g	<0.0001meq/g
Acidity or Alkalinity(USP)	Pink Solution 30 ppm as acetic acid	Pass
ID Test A (USP)	Complies	Pass
ID Test B (USP)	Conforms	Pass
Specific Gravity @ 15.56°C (USP)	0.812-0.816 @ 15.56C	0.8158
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	0.30max	0.08
260nm	0.30max	0.04
270nm	0.10max	0.02
340nm	0.10max	0.01
Absorption curve between 235nm-340nm (USP) is smooth		Pass
Limit of nonvolatile impurities (USP)	< 2.5mg	<1.0mg
Nonvolatile Residue (ACS)	NMT 0.001%	<0.001%
Volatile Impurities: Methanol (USP)	100ppm max	<5ppm
Sum of Acetal & Acetaldehyde (USP)	10ppm max.	<1 ppm
Benzene (USP)	2ppm max.	<1 ppm
Sum of all secondary peaks (USP)	300ppm max.	<20ppm

LOT NO:  
BATCH NO:  
SERIAL NO:  
WINE GALLONS: 55.0  
PROOF: 190  
PROOF GALLONS: 104.4

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.  
FOR INDUSTRY/PHARMALAB 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.  
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.\*

SHIP TO:

Fill Date:  
Expiration Date:



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.pharmco-aaper.com

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