

## **CERTIFICATE OF ANALYSIS**

Product Name Ethyl Acetate

Grade General Use HPLC-UV Grade

Catalog # 33000HPLC Item # 101125

Batch # 220309-B018355

Date of Manufacture: 02/03/2022

Recommended Retest Date: 02/02/2027

Customer PO # P19616/1

Packaging Type Case Poly Fluor 4x1 Gal

Quantity for Delivery 2

TEST	MONO- GRAPH	SPECIFICATION	RESULT	UNITS
Packaging Site	Internal	Greenfield Global USA Inc. 58 Vale Road, Brookfield, CT 06804 or 1101 Isaac Shelby Drive, Shelbyville, KY 40065	Brookfield CT	N/A
Assay (corrected for water)	ACS	99.5%, min	99.99	%
Color (APHA)	ACS	10 max.	1	N/A
Residue After Evaporation	ACS	0.003% max.	0.000	%
Substances Darkened by Sulfuric Acid	ACS	Passes Test	Pass	N/A
Titrable Acid	ACS	0.0009 meq/g max	0.0004	meq/g
Water	ACS	0.2% max.	0.01	%
UV Absorbance @ 255nm	HPLC	1.00 max.	0.50	N/A
UV Absorbance @ 257nm	HPLC	0.50 max.	0.25	N/A
UV Absorbance @ 263nm	HPLC	0.10 max.	0.03	N/A
UV Absorbance @ 275nm	HPLC	0.05 max.	0.01	N/A
UV Absorbance @ 330-400nm	HPLC	0.01 max.	0.00	N/A
Acidity	NF	NMT 0.10 mL of 0.10N NaOH is required	0.05	ml
Assay	NF	98.0-102.0%	100.00	%

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Form: CofA-Standard, Rev 1.5, 02/25/22, RAD



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TEST	MONO- GRAPH	SPECIFICATION	RESULT	UNITS
Identification A	NF	Infrared Spectroscopy	Pass	N/A
Limit of nonvolatile residue	NF	NMT 0.02%	0.00	%
Chromatographic Purity -	NF	NMT 0.1%	None Detected	N/A
Acetaldehyde Chromatographic Purity - 1-	NF	NMT 0.1%	None	N/A
Ethoxy-2-methylpropane			Detected	
Chromatographic Purity -	NF	NMT 0.1%	None	N/A
Methyl compounds			Detected	
Chromatographic Purity - Other	NF	NMT 0.3%	None	N/A
impurities			Detected	
Readily Carbonizable	NF	No dark zone develops within 15	Pass	N/A
Substances		minutes		
Specific Gravity @ 25oC	NF	0.894-0.898	0.897	N/A

## **Certification and Compliance Statements**

This lot of Ethyl Acetate complies with all of the current requirements listed in the United States Pharmacopeia, National Formulary, American Chemical Society monographs.

This product is manufactured for Routine HPLC Analysis and meets the requirements for General Use HPLC Grade, ACS Specifications. This product is not intended for GC or critical HPLC analysis. See Glass Purified, Glass Distilled Grade for those applications

No chemicals whatsoever are used as solvents at any point in the manufacture, processing or packaging of Ethyl Acetate. Only Class 2 and Class 3 residual solvents may appear as impurities / related substances / low level contaminants in Ethy Acetate. Concentration of Class 2 Option 1 and Class 3 residual solvents is below limits in the current USP/NF General Chapter <467>

This product is for further commercial manufacturing, laboratory or research use, and may be used as a process solvent for pharmaceutical purposes. It is not intended for use as an active ingredient in drug manufacturing nor as a medical device or disinfectant. Appropriate/legal use of this product is the responsibility of the user.

This product is not derived, nor does it come in contact with, any materials derived from bovine or other animal sources.

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This document was electronically signed by Doug Fleischmann on 3/10/2022 7:30:30 PM to indicate Quality Assurance Approval and to release this batch.