

CERTIFICATE OF ANALYSIS

Product Name ETHYL ACETATE
Grade Meets ACS/USP/NF GRADE Monographs
Catalog # 330000000
Lot # C19F24008
Date of Manufacture: 06/24/19
Recommended Retest Date: Five Years from Date of Manufacture

TEST	MONO GRAPH	SPECIFICATION	RESULT
Assay (corrected for water)	ACS	99.5%, min	99.88%
Assay	NF	98.0 - 102.0%	99.93%
Identification A	NF	Infrared Absorption <197F>	Pass
Specific Gravity @ 25°C	NF	0.894-0.898	0.897
Acidity	NF ⁺	NMT 0.10mL of 0.10N NaOH for neutralization	0.05 mL
Readily Carbonizable Substances	NF ⁺	No dark zone develops within 15 minutes	Pass
Substances Darkened by Sulfuric Acid	ACS ⁺	Passes Test	Pass
Chromatographic Purity	NF	Acetaldehyde NMT 0.1%	None Detected
		Ethyl isobutyl ether NMT 0.1%	None Detected
		Methyl compounds NMT 0.1%	<0.1%
		Other impurities NMT 0.3%	<0.1%
Color (APHA)	ACS	10 max	1
Residue After Evaporation	ACS ⁺	0.003% max.	0.000%
Limit of nonvolatile residue	NF ⁺	NMT 0.02%	0.00%
Water	ACS	0.2% max.	0.05%
Titration Acid, max	ACS	0.0009 meq/g max	0.0003 meq/g

⁺ This test is performed quarterly

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.

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

This product is for further commercial manufacturing, laboratory or research use, and may be used as an excipient or 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.



Approved by: T. Boudreau, Quality Control Chemist

Date of Approval:

06/25/19