

## CERTIFICATE OF ANALYSIS

<b>Product Name</b>	ACETONE
<b>Grade</b>	Meets ACS/USP/NF Monographs
<b>Catalog #</b>	329000000
<b>Lot #</b>	C19J21005
<b>Date of Manufacture:</b>	10/21/19
<b>Recommended Retest Date:</b>	Five Years from Date of Manufacture

TEST	MONO GRAPH	SPECIFICATION	RESULT
Assay (corrected for water)	ACS	NLT 99.5%	99.72%
Assay (on the anhydrous basis)	NF	NLT 99.0%	99.98%
Identification A - Infrared Absorption	NF	Conforms to Infrared Spectra	Pass
Identification B - GC	NF	Conforms to Reference Chromatogram	Pass
Specific Gravity @ 25°C	NF	NMT 0.789	0.787
Appearance	ACS <sup>+</sup>	Clear liquid with characteristic odor	Pass
Color (APHA)	ACS	10 max	1
Solubility in Water	ACS <sup>+</sup>	The solution remains clear for 30 min.	Pass
Residue After Evaporation	ACS <sup>+</sup>	0.001%, max	0.000%
Nonvolatile Residue	NF <sup>+</sup>	NMT 2 mg/50mL (0.004%)	0 mg/50mL
Titration Acid	ACS <sup>+</sup>	0.0003 meq/g, max	0.0002 meq/g
Titration Base	ACS <sup>+</sup>	0.0006 meq/g, max	0.0001 meq/g
Aldehyde (as HCHO)	ACS <sup>+</sup>	0.002%, max	< 0.002%
Isopropyl Alcohol	ACS	0.05%, max	None Detected
Methanol	ACS	0.05%, max	0.02%
Substances Reducing Permanganate	ACS <sup>+</sup>	To Pass Test	Pass
Readily Oxidizable Substances	NF <sup>+</sup>	To Pass Test	Pass
Water	ACS/NF	0.5%, max	0.24%

<sup>+</sup> This test is performed quarterly

**Certification and Compliance Statements**

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

No chemicals whatsoever are used as solvents at any point in the manufacture, processing or packaging of ethyl alcohol. Only Class 2 and Class 3 residual solvents may appear as impurities / related substances / low level contaminants in Ethanol. Concentration of Class 2 and Class 3 residual solvents is below limits in the current USP/NF General Chapter <467> Option 1 and ICH Q3C Impurities: Residual Solvents.

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: G. Lischke, Quality Control Chemist

Date of Approval: 10/21/19

