



## CERTIFICATE OF ANALYSIS

Product Name	Acetone
Grade	ACS/USP/NF/HPLC-UV Grade
Catalog #	32900HPLC
Item #	101092
Batch #	220504-B023825
Date of Manufacture:	05/03/2022
Recommended Retest Date:	05/02/2027
Customer PO #	P21282
Packaging Type	Case Poly Fluor 4x1 Gal

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
Aldehyde (as HCHO)	ACS	0.002%, max	LT 0.002%	N/A
Appearance	ACS	Clear liquid with characteristic odor	Pass	N/A
Assay (corrected for water)	ACS	NLT 99.5%	99.53	%
Color (APHA)	ACS	10 max.	1	N/A
Isopropyl Alcohol	ACS	0.05%, max	0.00	%
Methanol	ACS	0.05%, max	0.03	%
Substances Reducing Permanganate	ACS	To Pass Test	Pass	N/A
Residue after Evaporation	ACS	0.001%, max	0.000	%
Solubility in Water	ACS	The solution remains clear for 30 min.	Pass	N/A
Titration Acid	ACS	0.0003 meq/g, max	0.0001	meq/g
Titration Base	ACS	0.0006 meq/g, max	0.0002	meq/g
Absorbance	HPLC	To Pass Test	Pass	N/A
Gradient Elution	HPLC	To Pass Test	Pass	N/A



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Gradient Analysis at 254nm, Max	HPLC	To Pass Test	Pass	N/A
Liquid Chromatography	HPLC	To Pass Test	Pass	N/A
UV Absorbance @330nm	HPLC	1.00 max.	0.66	N/A
UV Absorbance @340nm	HPLC	0.10 max.	0.05	N/A
UV Absorbance @350nm	HPLC	0.02 max.	0.00	N/A
UV Absorbance @400nm	HPLC	0.01 max.	0.00	N/A
Assay (on the anhydrous basis)	NF	NLT 99.0%	99.97	%
Identification A - Infrared Absorption	NF	Conforms to Infrared Spectra	Pass	N/A
Identification B - GC	NF	Conforms to Reference Chromatogram	Pass	N/A
Nonvolatile Residue	NF	NMT 2 mg/50mL (0.004%)	0	mg
Readily Oxidizable Substances	NF	To Pass Test	Pass	N/A
Water	NF	0.5%, max	0.44	%
Specific Gravity @ 25oC	NF	NMT 0.789	0.788	N/A

### Certification and Compliance Statements

This lot of Acetone complies with all of the current requirements listed in the United States Pharmacopeia, American Chemical Society, National Formulary monographs, and meets the requirements for General Use HPLC Grade. This product is not intended for GC or critical HPLC analysis. See Distilled Grade for those Applications.

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

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



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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.

**This document was electronically signed by Doug Fleischmann on 5/5/2022 5:57:54 PM to indicate Quality Assurance Approval and to release this batch.**