

CERTIFICATE OF ANALYSIS

Product Name ACETONE
Grade Meets USP/ACS HPLC-UV GRADE Monographs
Catalog # 32900HPLC
Lot # C21D05005
Date of Manufacture: 04/05/21
Recommended Retest Date: Five Years from Date of Manufacture

TEST	MONO GRAPH	SPECIFICATION	RESULT	
Assay (corrected for water)	ACS	NLT 99.5%	99.57%	
Assay (on the anhydrous basis)	NF	NLT 99.0%	99.96%	
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	0.788	
Appearance	ACS ⁺	Clear liquid with characteristic odor	Pass	
Color (APHA)	ACS	10 max	1	
Solubility in Water	ACS ⁺	The solution remains clear for 30 min.	Pass	
Residue After Evaporation	ACS ⁺	0.001%, max	0.000%	
Nonvolatile Residue	NF ⁺	NMT 2 mg/50mL (0.004%)	0 mg/50mL	
Titration Acid	ACS ⁺	0.0003 meq/g, max	0.0001 meq/g	
Titration Base	ACS ⁺	0.0006 meq/g, max	0.0001 meq/g	
Aldehyde (as HCHO)	ACS ⁺	0.002%, max	< 0.002%	
Isopropyl Alcohol	ACS	0.05%, max	None Detected	
Methanol	ACS	0.05%, max	0.04%	
Substances Reducing Permanganate	ACS ⁺	To Pass Test	Pass	
Readily Oxidizable Substances	NF ⁺	To Pass Test	Pass	
UV Absorbance	ACS/HPLC	400nm	0.01 max.	0.00
		350nm	0.02 max.	0.00
		340nm	0.10 max.	0.04
		330nm	1.00 max.	0.61

TEST	MONO GRAPH	SPECIFICATION	RESULT
Liquid Chromatography	ACS/HPLC	To Pass Test	Pass
Absorbance	ACS/HPLC	To Pass Test	Pass
Gradient Elution	ACS/HPLC	To Pass Test	Pass
Gradient Analysis at 254nm, Max	ACS/HPLC	To Pass Test	Pass
Water	ACS/NF	0.5%, max	0.38%

* 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, 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 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: D. Simoncelli, Quality Control Chemist

Date of Approval: 04/05/21

