

CERTIFICATE OF ANALYSIS
ISOPROPYL ALCOHOL 99%
 Meets GENERAL USE HPLC-UV Grade Monographs

LOT # C17H15007

QC # PPR32545

Date of Manufacture: 08/15/17

Recommended Retest Date: Five Years from Date of Manufacture*

Main Catalog #: 231HPLC99

PRODUCT SPECIFICATIONS	MONOGRAPH	LIMITS	RESULTS	
Assay by GC, corrected for water, min.	ACS USP	99.5% 99.0%	99.93%	
Identification A	USP	To Pass	Pass	
Identification B	USP	To Pass	Pass	
Color (APHA), max.	ACS	NMT 10	1	
Appearance	ACS	Clear liquid	Pass	
Solubility in Water	ACS	Solution as clear as equal volume of water	Pass	
Residue After Evaporation, max.	ACS	0.001%	0.000%	
Limit of Non-Volatile Residue, max.	USP	NMT 2.5 mg (0.005%)	0.0 mg	
Titration Acid or Base, max.	ACS	0.0001 meq/g	<0.0001 meq/g	
Acidity	USP	NMT 0.70 ml of 0.02N NaOH required for neutralization	0.30 mL	
Water, max.	ACS	0.2%		
Water Determination	USP	NMT 0.5%	0.03%	
Carbonyl Compounds 0.002% max each of Propionaldehyde or Acetone	ACS	0.002%	<0.002%	
Refractive Index @ 20C	USP	1.376-1.378	1.377	
Specific Gravity @ 25C	USP	0.783-0.787	0.783	
Limit of Volatile Impurities	USP	Diethyl Ether	NMT 0.1%	<0.1%
		Acetone	NMT 0.1%	None Detected
		Diisopropyl Ether	NMT 0.1%	<0.1%
		n-Propyl Alcohol	NMT 0.1%	None Detected
		2-Butanol	NMT 0.1%	<0.1%
		Total	NMT 1.0%	<0.1%

Form Isopropanol 99%-HPLC, # 301, Rev. 3.1, 06/16, KAD

Approved by: M. Buttrick, Quality Control Chemist

Disclaimer: For Industrial/Lab use only. Not intended as a Drug Substance, Medical Device or Disinfectant. Appropriate legal use of this product is the responsibility of the user. (Rev. # disclaimer only, rev 3.6, 07/15, PD)

PRODUCT SPECIFICATIONS	MONOGRAPH	LIMITS	RESULTS
UV Absorbance @ 210 nm 220 nm 230 nm 245 nm 260 nm 275 nm 300 nm 330 nm - 400nm	ACS	A.U. 1.0 max. 0.40 max. 0.20 max. 0.08 max. 0.04 max. 0.03 max. 0.02 max. 0.01 max.	0.35 0.16 0.08 0.02 0.00 0.00 0.00 0.00
Liquid Chromatography (ACS)	ACS	To Pass Test(s)	Pass
Absorbance			Pass
Gradient Elution			Pass
Gradient Analysis @ 254 nm			Pass

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

Form Isopropanol 99%-HPLC, # 301, Rev. 3.1, 06/16, KAD

Approved by: M. Buttrick, Quality Control Chemist

Disclaimer: For Industrial/Lab use only. Not intended as a Drug Substance, Medical Device or Disinfectant. Appropriate legal use of this product is the responsibility of the user. (Rev. # disclaimer only, rev 3.6, 07/15, PD)