

Certificate of Analysis

Product: Isopropyl Alcohol 99.8%

Item Number: IPAU99

Grade: USP

Lot Number: 5000464/1.1

Manufacture Date: 12/28/2023

Expiration Date: 10/30/2026

Country of Origin: United States

Tested Property	Specification	Analysis
Description	Bright and Clear	Pass
Limit of non volatile residue	≤ 2.5 mg	0.2
Water	≤ 0.5 wt%	0.01
Identification test A (FTIR)	Pass the test	Pass
Identification test B (GC retention)	Pass the test	Pass
Specific gravity @ 25/25°C	0.783 - 0.787	0.7832
Refractive Index @20°C	1.376 - 1.378	1.3770
Acidity as Acetic Acid, wt%	≤ 0.70 (ml of 0.02 N NaOH)	0.25
Color, Pt-Co	Max 10	<5
Distillation Range	1°C max, includes 82.3 °C	Pass
Water miscibility	Clear and miscible	Pass
Assay	$\geq 99.0\%$	99.9%
Residual Solvent	To pass the test	Pass
Individual impurities	Max 0.1%	< 0.1
Total Impurities	Max 1.0 %	< 1.0
Methanol	Max 200 µL/L	<10
UV Absorbance		
230 nm	0.30 max	0.10
250 nm	0.10 max	0.02
270 nm	0.03 max	0.02

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290 nm	0.02 max	0.01
310 nm	0.01 max	0.00
Spectrum	To pass the test	Pass
Description	Bright and Clear	Pass
Limit of non volatile residue	≤ 2.5 mg	0.2
Water	≤0.5 wt%	0.01
Identification test A (FTIR)	Pass the test	Pass
Identification test B (GC retention)	Pass the test	Pass
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Acidity as Acetic Acid, wt%	≤0.70 (ml of 0.02 N NaOH)	0.25
Color, Pt-Co	Max 10	<5
Distillation Range	1°C max, includes 82.3 °C	Pass
Water miscibility	Clear and miscible	Pass
Assay	≥99.8%	99.9%
Residual Solvent	To pass the test	Pass
Individual impurities	Max 0.1%	< 0.1
Total Impurities	Max 1.0 %	< 1.0
Methanol	Max 200 µL/L	<10
UV Absorbance		
230 nm	0.30 max	0.10
250 nm	0.10 max	0.02
270 nm	0.03 max	0.02
290 nm	0.02 max	0.01
310 nm	0.01 max	0.00
Spectrum	To pass the test	Pass

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