

## Quality Department - Product Specification

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Page: 1 of 1

**ISOPROPYL ALCOHOL 99% USP**

Measure Description	Method Description	Specification
Specific Gravity (in air), at 25/25°C	Current USP	0.783 to 0.787
IDENTIFICATION A - Infrared Absorption	Current USP	Conforms to standard
Isopropyl Alcohol, Assay %	Gas Chromatography	NLT 99.85
Volatile Impurities - Each individual impurity, %	Gas Chromatography	NMT 0.10
Methanol Content, v/v%	Gas Chromatography	NMT 0.02
Volatile Impurities - Total of all impurities, %	Gas Chromatography	NMT 1.00
IDENTIFICATION B - Major peak corresponds with 2-propanol	Gas Chromatography	Major peak corresponds with 2-propanol
Acidity, mL	Current USP	NMT 0.70mL of 0.02N NaOH required to neutralize 50mL sample
Acids as Acetic Acid, mg/100mL	Current ASTM D1613	NMT 1.68
Water Content, v/v%	Karl Fischer Titration	NMT 0.320
Nonvolatile Residue, w/v%	Current USP	NMT 0.0025g/50mL sample (0.005%)
UV Absorbance - Spectrometer at 230nm	Current USP	NMT 0.30
UV Absorbance - Spectrometer at 250nm	Current USP	NMT 0.10
UV Absorbance - Spectrometer at 270nm	Current USP	NMT 0.03
UV Absorbance - Spectrometer at 290nm	Current USP	NMT 0.02
UV Absorbance - Spectrometer at 310nm	Current USP	NMT 0.01
UV Absorbance - Smoothness of UV Curve	Measured in a 1cm cell from 230nm to 310nm	The spectrum shows a steadily descending curve with no observable peaks or shoulders.
Refractive Index, at 20°C	Current USP	1.376 to 1.378
Miscibility with Water	Visual	Complete

**Comments:**

Isopropyl alcohol 99% conforms with all US Pharmacopoeia (USP) standards at time of packaging.  
Expiry period excludes UV absorbance for Isopropyl Alcohol 99% when packaged in HDPE plastic containers. Refer to our Shelf Life Statement for more information.

**Specification:**

QCSPEC #: QSPEC000093, Version #: QV000004, Approver: SHANNON.SMITH, Effective Date: 08-May-2025