

## Quality Department - Product Specification

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Brampton - ISOPROPYL ALCOHOL 99% USP EP

Measure Description	Method Description	Specification
Specific Gravity (in air), at 25/25°C	Current USP	0.783 to 0.787
IDENTIFICATION A - Relative Density at 20°C	Current EP	0.785 to 0.789
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
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
Benzene and Related Substances	Current EP	Benzene: NMT 2ppm
Benzene and Related Substances	Current EP	Total impurities apart from 2-butanol: NMT 0.3%
Appearance - Colour & Clarity of Solution	Current EP	It is clear and colourless when compared with water R. Dilute 1.0mL to 20mL with water R. After standing for 5 min. the dilution remains clear when compared with water R.
Acidity, mL	Current USP	NMT 0.70mL of 0.02N NaOH required to neutralize 50mL sample
Acids as Acetic Acid, g/100mL	Current ASTM D1613	NMT 1.44
Acidity or Alkalinity, mL	Current EP	NMT 0.60mL 0.01N NaOH required to neutralize 25mL sample
Water Content, v/v%	Karl Fischer Titration	NMT 0.320
Nonvolatile Residue, w/v%	Current USP	NMT 0.0025 (0.0025g/50mL sample)
Nonvolatile Residue, w/w%	Current EP	NMT 0.002 (0.002g/100g sample)
Refractive Index, at 20°C	Current USP	1.376 to 1.378
Peroxides	Current EP	No colour develops after 30min.
UV Absorbance - Spectrometer at 230nm	Current EP	NMT 0.300
UV Absorbance - Spectrometer at 250nm	Current EP	NMT 0.100
UV Absorbance - Spectrometer at 270nm	Current EP	NMT 0.030
UV Absorbance - Spectrometer at 290nm	Current EP	NMT 0.020
UV Absorbance - Spectrometer at 310nm	Current EP	NMT 0.010
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
Miscibility with Water	Visual	Complete

**Specification:**

QCSPEC #: QSPEC000094, Version #: QV0000000, Approver: KAITLIN.SMITH, Effective Date: 16-Sep-2019