



## PRODUCT SPECIFICATIONS SHEET

Product Name Isopropyl Alcohol 99%  
 Grade Meets TT-I-735a Grade A and B / Meets ASTM D770  
 Catalog # 231ASTM99

TEST	MONO-GRAPH	SPECIFICATION	TYPICAL RESULT
Assay	USP	NLT 99.0%	99.94 %
Assay (corrected for water)	ACS	99.5% min	99.94 %
Solubility in water	ACS	To Pass Test	Pass
Water Miscibility	D-770	To Pass	Pass
Color, APHA	ACS	10 max	1
Color, APHA	TT-I-735	10 max	1
Color, APHA	D-770	10 max	1
Limit of Nonvolatile Residue	USP	NMT 2.5 mg (0.005%)	0.0 mg
Residue after Evaporation	ACS	0.001% max	0.000 %
Specific Gravity	USP	0.783 - 0.787 @25°C	0.783
Specific Gravity	D-770	0.785 – 0.787 @ 20°C	0.787
Specific Gravity	D-770	0.782 – 0.784 @ 25°C	0.783
Specific Gravity	TT-I-735 Grade A	0.7862 – 0.7870 @ 20°C	0.7866
Specific Gravity	TT-I-735 Grade B	0.7862 – 0.7878 @ 20°C	0.7866
Nonvolatile Matter	TT-I-735	0.002 g/100 mL max.	0.0 g/100 mL
Nonvolatile Matter	D-770	5 mg/100 mL max.	0 mg/100 mL
Identification A - Infrared Spectroscopy	USP	To Pass Test	Pass
Identification B	USP	To Pass Test	Pass
Identification C - Limit of Methanol	USP	NMT 0.02%	Pass



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TEST	MONO-GRAPH	SPECIFICATION	TYPICAL RESULT
Refractive Index @ 20°C	USP	1.376-1.378	1.377
Acidity	USP	NMT 0.70 ml of 0.020N NaOH is required	0.50 ml
Titration Acid or Base	ACS	0.0001 meq/g	0.0001 meq/g
Acidity (as acetic acid)	TT-I-735	0.002% max.	LT 0.001%
Acidity (as acetic acid)	D-770	0.002% max.	LT 0.001%
Carbonyl Compounds - Propionaldehyde	ACS	0.002% max	LT 0.002%
Carbonyl Compounds - Acetone	ACS	0.002% max	0.000 %
Absorbance @ 230nm	USP	NMT 0.30	0.09
Absorbance @ 250nm	USP	NMT 0.10	0.02
Absorbance @ 270nm	USP	NMT 0.03	0.00
Absorbance @ 290nm	USP	NMT 0.02	0.00
Absorbance @ 310nm	USP	NMT 0.01	0.00
Absorbance Curve	USP	The spectrum shows a steadily descending curve with no observable peaks or shoulders.	Pass
Limit of Volatile Impurities - Methanol	USP	NMT 0.02%	LT 0.02%
Limit of Volatile Impurities - Diethyl Ether	USP	NMT 0.1%	LT 0.1%
Limit of Volatile Impurities - Acetone	USP	NMT 0.1%	None Detected
Limit of Volatile Impurities - Diisopropyl Ether	USP	NMT 0.1%	LT 0.1%
Limit of Volatile Impurities - n-Propyl Alcohol	USP	NMT 0.1%	LT 0.1%
Limit of Volatile Impurities - 2-Butanol	USP	NMT 0.1%	LT 0.1%
Limit of Volatile Impurities - Individual unspecified	USP	NMT 0.1%	LT 0.1%

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Form: Isopropanol 99%, Mil/ASTM, Diamond Wipes, Rev. 1.1, 08/23, PJM



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TEST	MONO-GRAPH	SPECIFICATION	TYPICAL RESULT
Limit of Volatile Impurities - Total	USP	NMT 1.0%	LT 0.1%
Water, wt%	ACS	NMT 0.2%	0.04 %
Water Determination	USP	NMT 0.5%	0.04 %
Water	D-770	0.2% max.	0.04 %
Water Content	TT-I-735 Grade A	0.10% max	0.04 %
Water Content	TT-I-735 Grade B	0.40% max	0.04 %
Distillation Range	TT-I-735	81.8°C – 83.0°C	Pass
Distillation Range	D-770	Distills entirely within 1.5°C range which shall include 82.3°C	Pass

This product is for further commercial manufacturing, laboratory, or research use. 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.