



Product Specifications Sheet

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

TEST	MONO-GRAPH	SPECIFICATION	TYPICAL RESULT	UNITS
Color, APHA	TT-I-735	10 max	0	N/A
Nonvolatile matter	TT-I-735	0.002 g/100 mL max.	0.000	g
Carbonyl Compounds - Acetone	ACS	0.002% max	0.001	%
Assay (corrected for water)	ACS	99.5% min	99.91	%
Color, APHA	ACS	10 max	0	N/A
Carbonyl Compounds - Propionaldehyde	ACS	0.002% max	LT 0.002%	N/A
Residue after Evaporation	ACS	0.001% max	0.000	%
Solubility in water	ACS	To Pass Test	Pass	N/A
Titration Acid or Base	ACS	0.0001 meq/g	0.0001	meq/g
Water, wt%	ACS	NMT 0.2%	0.06	%
Acidity (as acetic acid)	D-770	0.002% max.	LT 0.002%	N/A
Color, APHA	D-770	10 max	0	N/A
Distillation Range	D-770	Distill entirely within 1.5oC range which shall include 82.3oC	Pass	N/A
Nonvolatile matter	D-770	0.002 g/100 mL max.	0.000	g
Nonvolatile matter	D-770	5 mg/100 mL max.	0	mg
Specific Gravity	D-770	0.785 - 0.787 @20°C	0.787	N/A
Specific Gravity	D-770	0.782 - 0.784 @25°C	0.783	N/A
Water	D-770	0.2% max.	0.05	%
Water Miscibility	D-770	To Pass Test	Pass	N/A



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TEST	MONO-GRAPH	SPECIFICATION	TYPICAL RESULT	UNITS
Specific Gravity	TT-I-735 Grade A	0.7862 - 0.7870 @20°C	0.7866	N/A
Water Content	TT-I-735 Grade A	0.10% max	0.06	%
Acidity (as acetic acid)	TT-I-735	0.002% max.	LT 0.002%	N/A
Specific Gravity	TT-I-735 Grade B	0.7862 - 0.7878 @20°C	0.7866	N/A
Water Content	TT-I-735 Grade B	0.40% max.	0.06	%
Distillation Range	TT-I-735	81.8oC - 83.0°C	Pass	N/A
Limit of Volatile Impurities - 2-Butanol	USP	NMT 0.1%	LT 0.1%	N/A
Limit of Volatile Impurities - Acetone	USP	NMT 0.1%	None Detected	N/A
Acidity	USP	NMT 0.70 ml of 0.020N NaOH is required	0.2	ml
Assay (corrected for water)	USP	99.0% min	99.91	%
Limit of Volatile Impurities - Diethyl Ether	USP	NMT 0.1%	LT 0.1%	N/A
Limit of Volatile Impurities - Diisopropyl Ether	USP	NMT 0.1%	LT 0.1%	N/A
Identification B	USP	To Pass Test	Pass	N/A
Identification A - Infrared Spectroscopy	USP	To Pass Test	Pass	N/A
Identification C – Limit of Methanol	USP	NMT 0.02%	Pass	N/A
Limit of Volatile Impurities – Methanol	USP	NMT 0.02%	LT 0.02%	N/A
Limit of Volatile Impurities - n-Propyl Alcohol	USP	NMT 0.1%	LT 0.1%	N/A
Limit of Nonvolatile Residue	USP	NMT 2.5 mg (0.005%)	0.0	mg
Refractive Index @ 20oC	USP	1.376-1.378	1.377	N/A



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TEST	MONO-GRAPH	SPECIFICATION	TYPICAL RESULT	UNITS
Specific Gravity	USP	0.783 - 0.787 @25°C	0.783	N/A
Limit of Volatile Impurities – Individual unspecified impurity	USP	NMT 0.1%	LT 0.1%	N/A
Limit of Volatile Impurities - Total	USP	NMT 1.0%	LT 0.1%	N/A
Water Determination	USP	NMT 0.5%	0.06	%

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.