LAB ALLEY
ESSENTIAL CHEMICALS

Certificate of Analysis

Product: Isopropyl Alcohol, 99%
Item Number: IPAU99
Grade: USP
Lot Number: 292466
Manufacture Date: 08/24/2022
Expiration Date: 12/31/2024
Country of Origin: United States

Tested Property	Specification	Analysis
Purity, wt%	99.8 min	99.9%
Methanol, %	0.02 max.	Passes
Ethyl Ether, %	0.1 max.	Passes
Acetone, %	0.1 max.	Passes
Diisopropyl Ether, %	0.1 max.	Passes
1-propanol,%	0.1 max.	Passes
2-butanol,%	0.1 max.	Passes
Any Individual Impurity, %	0.1 max.	Passes
Total Impurities,%	1.0 max.	Passes
Water, wt%	0.10 max.	0.03%
APHA Color, Pt-Ca	5 max.	3
Acidity as Acetic Acid, wt%	0.001 max	0.001
Appearance	Clear & FFSM	Pass
Density @ 20Ã‚Â°C, g/ml	0.785 - 0.786	0.785
Specific Gravity @ 20/20Ã‚Â°C	0.785 - 0.787	0.787
Specific Gravity @ 25/25Ã‚Â°C	0.783 - 0.787	0.783
Non Volatile Residue, g/100mL	0.0010 max.	0.0002
Refractive Index @ 20Ã‚Â°C	1.376 - 1.378	1.377
Distillation IBP, Ã‚Â°C	81.8 min.	82.1Ã‚Â°C
Distillation DP, Ã‚Â°C	82.8 max.	82.4Ã‚Â°C

Phone: 512-668-9918, Fax: 512-886-4008,
E-mail: Customerservice@laballey.com,
www.laballey.com,
12501 Pauls Valley Road, Suite A, Austin, Texas 78737,

Water Miscibility	Clear & Miscible	Passes
Identification by IR	To pass the test	Passes
Identification by GC Retention	To pass the test	Passes
Purity, wt%	99.8 min	99.9%
Methanol, %	0.02 max.	Passes
Ethyl Ether, %	0.1 max.	Passes
Acetone, %	0.1 max.	Passes
Diisopropyl Ether, %	0.1 max.	Passes
1-propanol,%	0.1 max.	Passes
2-butanol,%	0.1 max.	Passes
Any Individual Impurity, %	0.1 max.	Passes
Total Impurities,%	1.0 max.	Passes
Water, wt%	0.10 max.	0.03%
APHA Color, Pt-Ca	5 max.	3
Acidity as Acetic Acid, wt%	0.001 max	0.001
Appearance	Clear & FFSM	Pass
Density @ 20°C, g/ml	0.785 - 0.786	0.785
Specific Gravity @ 20/20°C	0.785 - 0.787	0.787
Specific Gravity @ 25/25°C	0.783 - 0.787	0.783
Non Volatile Residue, g/100mL	0.0010 max.	0.0002
Refractive Index @ 20°C	1.376 - 1.378	1.377
Distillation IBP, °C	81.8 min.	82.1°C
Distillation DP, °C	82.8 max.	82.4°C
Water Miscibility	Clear & Miscible	Passes
Identification by IR	To pass the test	Passes
Identification by GC Retention	To pass the test	Passes

Isopropyl Alcohol, 99%

Phone: 512-668-9918, Fax: 512-886-4008,
E-mail: Customerservice@laballey.com,
www.laballey.com,
12501 Pauls Valley Road, Suite A, Austin, Texas 78737,

Note: The information and recommendations of Lab Alley concerning this product are based upon laboratory tests and experience. To the best of our knowledge and belief these are true and accurate, however Lab Alley assumes no obligation or liability for the information in this document. Since conditions of actual use are beyond our control, any recommendations or suggestions regarding merchantability and fitness for particular purposes are made without warranty, expressed or implied.

This document was electronically issued and is therefore valid without a signature.

Phone: 512-668-9918, Fax: 512-886-4008,
E-mail: Customerservice@laballey.com,
www.laballey.com,
12501 Pauls Valley Road, Suite A, Austin, Texas 78737,