



## Certificate Of Analysis

**Certificate of Analysis Contact:**

CLEARSOV SOLVENTS INC.  
306-890 CLEMENT AVE  
KELOWNA, BC. V1Y0H8

**Material** : Isopropyl Alcohol USP :  
**LOT Number** : 0311102021

**Date Shipped Order** : September 20, 2021 :  
**No. Delivery** 5011013642 000010 :  
**Item No.** 8104597688 000010

Test Description	Test Result	Specifications		Unit of Measure
		Minimum	Maximum	
Purity	99.9	99.8	100.0	weight %
Acidity as Acetic Acid	0.0005	0.0000	0.0020	weight %
APHA Color	2	0	5	APHA Color
Distillation IBP @760 mmHg	81.9	81.3	83.0	degrees C
Distillation DP @760 mmHg	82.5	81.3	83.0	degrees C
Non-volatiles	0.000	0.000	0.001	g/100 ml
Specific Gravity @ 20/20 °C	0.7865	0.7862	0.7870	
Water	0.0090	0.0000	0.1000	weight %
Water miscibility @20C(10vols)	Pass	Pass		
Appearance, Clear Liquid	Pass	Pass		
Diisopropyl ether + n-Propyl a	0.0	0.0	0.1	weight %
Ether, Assay Or Other ETHR	0.0	0.0	0.1	weight %
Acetone	0.0	0.0	0.1	weight %
sec-Butyl Alcohol	0.0	0.0	0.1	weight %
Volatiles	0.0	0.0	1.0	weight %
TYPICAL VALUES	SHOWN BELOW			
Retention Time ID B	Pass			

(\*\*\*) Continued (\*\*\*)

This Certificate of Analysis contains the most current information available as of the print date. Results provided by Seller are intended to be representative in nature only and are not to be construed as a guarantee of future product performance. Before using a ClearSolv Solvent Inc. product, customers and other users should make their own independent determination that the product is suitable for the intended use. This document does not constitute a warranty, express or implied, including a warranty of



## Certificate Of Analysis

Page  
2 of 3

Delivery Item: 8104597688 000010

Test Description	Test Result	Specifications		Unit of Measure
		Minimum	Maximum	
IR Spectrum	Pass	Pass		
Refractive Index @20 deg. C	1.376 - 1.378			
Specific Gravity @ 25/25C,US	0.7830 - 0.7870			

### Compendia

Clearsolv Solvents Inc. Isopropyl Alcohol USP meets or exceeds all requirements of the United States Pharmacopela (USP) and is manufactured in accordance to current Good Manufacturing Practices (cGMP).

This product is not for use as an Active Pharmaceutical Ingredient (API).

### Site of Manufacture

All Isopropyl Alcohol USP sold by Clearsolv Solvents Inc. in the United States, Canada and Central and South America is manufactured at Suppliers manufacturing complex at 8280 Sheldon Road, Channelview, Texas 77530.

### Date of Manufacture

For shipments from Clearsolv Solvents Inc., the date of manufacture is embedded within the batch number identified above. The batch number is shown in format EQYYMDDXXX where EQ is the plant code, YY is the last 2 digits of the year (00-99), M is the month designated by sequential letter (A-L) Example A-January, B, February, L- December), DD is the day of the month (01-31), and XXX is a sequence number.

### Shelf Life

The shelf life of Isopropyl Alcohol USP manufactured and delivered by Clearsolv Solvents Inc. when stored and handled under appropriate conditions is one year from the manufacturing date. Subsequent handling and/or repackaging by intermediaries such as distributors may affect shelf life. Therefore, the user of this material should confirm this shelf life via testing or with their immediate supplier.

### Typical Properties

Analytical test parameters listed under Typical Properties are not tested on every lot of material based on our knowledge of the manufacturing process and controlled handling, shipping and storage of the material. Random, statistical sampling has shown that Clearsolv Solvents Inc. Isopropyl Alcohol USP, if tested, will fall within the limits indicated under Test Result.

### Residual Solvents

The current edition of the United States Pharmacopela, in general chapter <467> #Residual Solvents#, specifies limits on Residual Solvents. Section <467> lists classes of Residual Solvents which may not be completely removed by practical manufacturing techniques.

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## Certificate Of Analysis

Page  
3 of 3

Delivery Item: 8104597688 000010

Test Description	Test Result	Specifications		Unit of Measure
		Minimum	Maximum	

The main component of this product, Isopropyl alcohol, is a Class 3 Residual Solvent. Only Class 2 Residual Solvent methanol and other Class 3 Residual Solvents are likely to be present as manufacturing by-products. Class 2 Residual Solvent methanol is below the Option 1 limit, and all Class 3 Residual Solvents formed as manufacturing by-products are below 0.5 percent.

Isopropyl alcohol is manufactured by the reaction of acetone with hydrogen. No other Residual Solvents are used in the manufacturing process, and none are added to the final product.

Information in this document is believed to be accurate. No warranty, express or implied, is made and ClearSolv Solvents Inc/ ClearSolv Solvents USA assumes no liability resulting from the use of this document/product. The user must determine the suitability of this information/product for their application.

This document meets USP Grade Isopropyl 99%  
Bruce McKay, Kelowna  
Manager, Quality, ClearSolv Solvents Inc  
Date: 10/12/2021

Print Date: September 13, 2021

Data reported was generated in an approved  
Quality Assurance Lab.

Questions ? Call Customer Service: 877-904-0166

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