

## **CERTIFICATE OF ANALYSIS**

Item Number	IS115	Lot Number	3FH0005
Item	Isopropyl Alcohol, 99 Percent, USP, EP, BP, JP		
CAS Number	67-63-0		
Molecular Formula	C <sub>3</sub> H <sub>8</sub> O	Molecular Weight	60.10

TEST	SPECIFICATION		RESULT	
	MIN	MAX		
ASSAY (C₃H <sub>8</sub> O)	99.0 %		99.94 %	
SPECIFIC GRAVITY @ 25 °C	0.783 - 0.787		0.783	
SPECIFIC GRAVITY @ 20 °C	0.785 - 0.788		0.786	
REFRACTIVE INDEX @ 20 °C	1.376 - 1.378		1.378	
ACIDITY	TO PASS TEST		PASSES TEST	
ACIDITY OR ALKALINITY	TO PASS TEST		PASSES TEST	
APPEARANCE	TO PASS TEST		PASSES TEST	
CLARITY OF SOLUTION	TO PASS TEST		PASSES TEST	
ABSORBANCE	TO PASS TEST		PASSES TEST	
DISTILLING RANGE (MIN. 94%)	81° - 83°C		81° - 83°C	
NONVOLATILE RESIDUE		20 ppm	0ppm	
WATER		0.5 %	0.03 %	
BENZENE AND RELATED SUBSTANCES	TO PASS TEST		PASSES TEST	
PEROXIDES	TO PASS TEST		PASSES TEST	
VOLATILE IMPURITIES	TO PASS TEST		PASSES TEST	
IDENTIFICATION	TO PASS TEST		PASSES TEST	
RESIDUAL SOLVENTS	TO PASS TEST		PASSES TEST	
MANUFACTURING DATE			29-APR-2016	
RETEST DATE			30-APR-2021	
APPEARANCE			CLEAR COLORLESS LIQUID	

Phil Xiao

Phil Xiao Director, Quality Control

## **Spectrum China Ltd.**

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