



ISO CERTIFICATION 9001 : 2015			
QUALITY CONTROL DEPARTMENT			
CERTIFICATE OF ANALYSIS			
ISOPROPYL ALCOHOL BP			
Specification No :	JCPL/QC/SPE/BP/002		
Batch No :-	JCPL/BP/2024/10	Mfg. Date :-	5/10/2024
Date of Recd:-	5/10/2024	Date of Analysis :-	5/10/2024
Date of Issue :-	5/10/2024	Expiry Date :-	3 Years from Date of Mfg.

Sr. No.	Characteristics	Test Procedure	Equivalent to	UOM	Specification		Result
					Min.	Max.	
1	Description	Visual	BP	NA	Clear Colourful Liquid		Complies
2	Solubility	Visual	BP	NA	Miscible with water, ethanol (96%), ether and Chloroform		Complies
3	Appearance of Solution	Visual	BP	NA	a) The solution is clear and colourless b) Sample (1 in 20) is clear after 5 min, compare to B9		Complies
4	A) Identification by FTIR	FTIR	BP	NA	Absorption spectrum of sample exhibit maxima at the same wavelength as tht of IPA ref. std. or working standard.		Complies
5	B) Relative Density at 20 C	Sp. Gravity bottle	BP	gm/ml	0.785	0.789	0.786
6	C) Refractive index @ 20 C	Refractometer	BP	NA	1.376	1.379	1.377
7	D) Chemical Test	Visual	BP	NA	Bright reddish-violet ring forms immediately at the junction of two liquids. After 2 to 5 min the entire sulpheric acid indicator to pale pind		Complies
8	Non-volatile substance	Gravimetric	BP	ppm	NMT 20		10
9	Acidity or alkalinity	Titration	BP	ml	NMT 0.6 ml of 0.01 M Sodium Hydroxide is required to change the colour of the indicator to pale pink		0.5
10	Absorbance by UV						
	UV Absorbance @ 230 nm	Spectrophotometry	BP	NA	NMT 0.30		0.076
	UV Absorbance @ 250 nm	Spectrophotometry	BP	NA	NMT 0.10		0.012
	UV Absorbance @ 270 nm	Spectrophotometry	BP	NA	NMT 0.03		0.001
	UV Absorbance @ 290 nm	Spectrophotometry	BP	NA	NMT 0.02		(-) 0.001
	UV Absorbance @ 310 nm	Spectrophotometry	BP	NA	NMT 0.01		(-) 0.001
	Curve	Spectrophotometry	BP	NA	The spectrum shows a steadily descending curve with no observable peaks or shoulders.		Complies
11	Benzene and Related Substances						
	Benzene	GC	BP	ppm	0.0000	2.0000	Not Detected
	Total Impurities apart from 2 butanol	GC	BP	%v/v	0.0000	0.3000	0.06
12	Peroxide	Visual	BP	NA	No colour develops		Complies
13	Water	Karl fisher	BP	% w/w	0.0	0.5	0.06
14	Residual Solvents (a) N-Propyl alcohol	GC	BP	% v/v	NMT 0.1%		0.05
15	Residual Solvents (b) Cyclohexane	GC	BP	% v/v	NMT 0.005%		0.001
Analyzed by				Authorized Signatory			
 Technical officer				 Technical Advisor & Head Department of Alcohol Technology and Biofuel			