



QUALITY CONTROL DEPARTMENT							
CERTIFICATE OF ANALYSIS							
ISOPROPYL ALCOHOL IP							
Specification No : JCPL/QC/SPE/IP/001							
Batch No : JCPL/IP/2024/09				Mfg Date : 19/09/2024			
Date of Recd : 19/09/2024				Date of Analysis : 19/09/2024			
Date of Issue : 19/09/2024				Expiry Date : 3 Years from Date of Mfg.			
Sr. No	Characteristics	Test Procedure	Equivalent to	UOM	Specification		Result
					Min	Max	
1	Description/Appearance	Visual	IP	NA	A Clear and Colorless liquid,		complies
2	Solubility	Visual	IP	---	Miscible with water, Alcohol, Ether and Chloroform.		complies
3	Appearance of Solution	Visual	IP	NA	The Sample is Clear and colourless sample of (1 ml in 20 ml of water) is clear after 5 minutes.		complies
4	B) Identification by FTIR	FTIR	IP	NA	Compare the spectrum with that obtained with isopropyl alcohol RS or with the reference spectrum of isopropyl alcohol		complies
5	Relative Density at 20° C	Sp.Gravity Bottle	IP	gm/ml.	0.7850	0.7890	0.786
6	Reflective Index at 20° C	Refractrometer	IP	----	1.3760	1.3790	1.377
7	Chemical Test	Visual	IP	----	A bright reddish - violet ring forms immediately at the junction of 2 liquid. After 2-5 minutes, the entire sulphuric acid layer turns violet.		1.377
8	Non Volatile Substances	Gravimetric	IP	ppm	NMT 20 ppm		10
9	Acidity or Alkalinity	Titration	IP	ml	NMT 0.6 ml of 0.01 M NaOH required.		0.5
10	UV Absorbance @ 230 nm	Spectrophotome	IP	ml	NMT 0.30 at 230 nm		0.089
11	UV Absorbance @ 230 nm	Spectrophotome	IP	ml	NMT 0.10 at 250 nm		Not Detected
12	UV Absorbance @ 230 nm	Spectrophotome	IP	ml	NMT 0.03 at 270 nm		0.05
13	UV Absorbance @ 230 nm	Spectrophotome	IP	ml	NMT 0.02 at 290 nm		Not Detected
14	UV Absorbance @ 230 nm	Spectrophotome	IP	ml	NMT 0.01 at 310 nm		Not Detected
15	Benzene and related substances Benzene	GC	IP	ppm	0.0000	2.0000	Not Detected
16	Benzene and related substances total impurities apart from 2-Butanol	GC	IP	%V/V	0.0000	0.3000	0.05
17	Peroxide	Visual	IP	%w/w	No colouration is Produced		complies
18	Water	Karl Fisher	IP	%w/w	0.0000	0.5000	0.5
19	Assay	GC	IP	%w/w	99.0000	0.0000	99.95
20	Residual Solvents (a) n- propyl	GC	IP	%V/V	n-propyl alcohol NMT 0.1%		0.05
21	Residual Solvents (b) cyclohexa	GC	IP	%w/w	Cyclohexane NMT 0.005%		0.001

Analyzed by

Technical Officer



Authorized Signatory

Technical Advisor & Head

Department of Alcohol Technology and Biofuel

Remarks : Material Complies as per above Specification



ISO 9001:2008

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