



DEEPAK FERTILISERS & PETROCHEMICALS CORPORATION LIMITED.

Address :Plot K1-K6 MIDC Industrial Area, Talaja,A.V.410 208.

Dist.:Raigad, Maharashtra (India)

Tel: 91-22-5068 4570 Fax: 91- 22-27412413

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ISO CERTIFICATION 9001 : 2015							
QUALITY CONTROL DEPARTMENT							
CERTIFICATE OF ANALYSIS							
ISOPROPYL ALCOHOL IP							
Specification No.:- DFPC/GMP/QC/SPE/FP/001		A.R.No.:-		DFPC/T-606/24/053			
Batch No.:- IPA/T-606/2024/053		Mfg. Date.:-		22/02/2024			
Date of Recd.:- 23/02/2024		Date of Analysis:-		23/02/2024			
Date of Issue:- 23/02/2024		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 colourless liquid.		Complies
2	Solubility	Visual	IP	---	Miscible with purified water, Ether, and Chloroform.		Complies
3	Appearance of solution	Visual	IP	---	The sample is clear and colourless. Sample of (1 ml in 20 ml of water) is clear after 5 minutes		Complies
4	A) 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	C) Relative Density at 20°C.	Sp.gravity bottle	IP	gm/ml	0.7850	0.7890	0.786
6	D) Refractive index @ 20°C.	Refractometer	IP	---	1.3760	1.3790	1.377
7	E) Chemical Test	Visual	IP	NA	A bright reddish-violet ring forms immediately at the junction of 2 liquid.After 2-5 minutes,the entire sulphuric acid layer turns violet.		Complies
8	Non volatile substance	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	Spectrophotometry	IP	nm	NMT 0.30 at 230 nm		0.087
11	UV Absorbance @ 250 nm	Spectrophotometry	IP	nm	NMT 0.10 at 250 nm		0.012
12	UV Absorbance @ 270 nm	Spectrophotometry	IP	nm	NMT 0.03 at 270 nm		-0.001
13	UV Absorbance @ 290 nm	Spectrophotometry	IP	nm	NMT 0.02 at 290 nm		-0.003
14	UV Absorbance @ 310 nm	Spectrophotometry	IP	nm	NMT 0.01 at 310 nm		-0.004

Rajendra Thatte
Analysed By

Shrirang Kulkarni
Approved By

Corporate Office:

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1/2



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Sr. No	Characteristics	Test Procedure	Equivalent to	UOM	Specification		Result
					Min.	Max	
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	%	0.0000	0.3000	0.05
17	Peroxide	Visual	IP	---	No colouration is produced .		Complies
18	Water	Karl fisher	IP	%w/w	0.0000	0.5000	0.05
19	Assay	GC	IP	%w/w	NLT 99.0%		99.95
20	Residual Solvents(a) n-Propyl alcohol	GC	IP	%v/v	n-Propyl alcohol NMT 0.1%		0.04
21	Residual Solvents(b) Cyclohexane	GC	IP	%v/v	Cyclohexane NMT 0.005%		0.001
Remark: Material complies as per above specification							

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2/2