

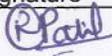
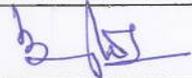
	Deepak Fertilisers and Petrochemicals Corporation Limited, W11 & W23 MIDC Industrial Area Phase II, Dombivali East Maharashtra	Specification
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SPECIFICATION AND TEST PROCEDURE.

PRODUCT NAME: ISOPROPYL ALCOHOL IP/BP/EP/USP

CHANGE CONTROL NO.	CC#2022-001					
DEP T.	SPECIFICATION NO.	REVISION No.	SUPERSEDES	EFF. DATE	REV. DATE	PAGE No.
QC	DFPCL/GMP/QC/SPE/FP/001	08	07	16/02/2022	15/02/2024	Page 1 of 2

Sr.No	Test	Specification limit	Reference
1	Description	Clear colourless liquid with characteristic spirituous odour and flammable.	IP,BP,EP, USP
2	Solubility	Miscible in water ,ethanol (96%),ether and chloroform .	IP,BP,EP, USP
3	Appearance of solution	a) The solution is clear and colourless b) sample (1in 20) is clear after 5 min ,compare to B9	BP,EP
4	Identification		
	A. By IR	IR absorption spectrum of sample exhibits maxima at the same wavelength as that of IPA ref. std. or working std	IP,BP,EP USP
	B. Identification by GC	The R.T of major peak of the sample solution corresponds to the 2-propanol peak of the system suitability solution, as obtained in the Assay.	IP,BP,EP, USP
	C. Relative density at 20°C	Between 0.785 to 0.789	IP,BP,EP
	D. Refractive index at 20 °C	1.376 to 1.379	IP,BP,EP
	E. Chemical test	A white or yellowish precipitate is produced with mercuric sulphate solution.	IP
	F. Chemical test	Acetone recognizable by its odour is evolved with dilute potassium dichromate solution and sulphuric acid .	IP
	G. Chemical test	A bright reddish-violet ring forms immediately at the junction of the 2 liquid .After 2-5 mins, the entire sulphuric acid layers turns violet.	BP,EP
	H. Identification of methanol by GC	The R.T of methanol peak of the sample solution corresponds to the methanol peak of the system suitability solution, as obtained in the Assay.	USP
5	Specific gravity at 25°C	0.783 to 0.787	USP
6	Refractive Index at 20°C	1.376 to 1.378	USP
7	Limit of volatile impurities		USP
	a. Methanol	a) Not more than 200 ppm	
	b. Diethyl ether	b) Not more than 0.1% v/v	
	c. Acetone	c) Not more than 0.1% v/v	
	d. Di isopropyl ether	d) Not more than 0.1% v/v	
	e. N-Propyl alcohol	e) Not more than 0.1% v/v	
	f. 2-Butanol	f) Not more than 0.1 % v/v	

Action by	Name	Designation	Signature	Date
Prepared	R.B.Patil	Manager QC/QA		16/02/2022
Checked	S.B.Amle	AGM-QC/QA		16/02/2022
Approved	Dr.L.B.Yadawa	GM-QC/QA		16/02/2022



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Sr.No	Test	Specification limit	Reference
	g. Individual unspecified impurity	g) Not more than 0.1 % v/v	
	h. Cyclohexane	h) Not more than 0.005% v/v (Inhouse)	
	i. Total Impurities	i) Not more than 1.0 % v/v	
8	Non volatile substance	a) NMT 20 ppm b) NMT 0.005 % (2.5 mg)	BP,EP USP
9	Acidity or Alkalinity	a) NMT 0.70 ml of 0.02 N NaOH is required for neutralisation b) NMT 0.6 ml 0.01 M NaOH is required to change the colour of the indicator to pale pink	USP IP,BP,EP
10	Absorbance by UV a. At 230 nm b. At 250 nm c. At 270 nm d. At 290 nm e. At 310 nm	Not more than 0.30 Not more than 0.10 Not more than 0.03 Not more than 0.02 Not more than 0.01	IP,BP,EP
11	Benzene and related substance a. Benzene b. Total Impurities apart from 2-butanol	a) Not more than 2 ppm, b) Not more than 0.3 %	IP,BP,EP
12	Peroxide	No colour develops	BP,EP
13	Water	NMT 0.5%	IP,BP,EP,USP
14	Assay by GC	NLT 99.0 % v/v	USP,IP

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Prepared	R.B.Patil	Manager QC/QA		16/02/2022
Checked	S.B.Amle	AGM-QC/QA		16/02/2022
Approved	Dr.L.B.Yadawa	GM-QC/QA		16/02/2022