

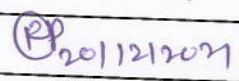
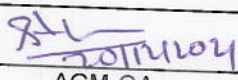
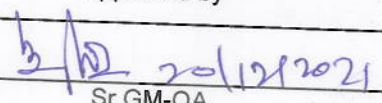


Deepak Fertilisers and Petrochemicals Corporation Limited, Taloja, Maharashtra, India K1

Finish Product Specification

Title	ISO PROPYL ALCOHOL IP		DC No.	QA/FP/SPE/IPA/04	
Chemical formula	C3H8O	Mol. Wt.	60.1	CAS No:	67-63-0
Issue Date	20/12/2021		Review Date	19/12/2023	
Unit	DFPCL, K2-K6		Version	2.4	

S. No.	Characteristics	UOM	Specification
1	Description	-	A Clear colourless liquid .
2	Solubility	-	Miscible with water, with chloroform, and with ether
3	Identification A- Relative density at 20°C	g.	0.785 to 0.789
	Identification B- Refractive index at 20°C	-	1.376 to 1.379
	Identification C- Infrared absorption spectrophotometer	-	IR spectrum of sample exhibits maxima at the same wavelength as that of a similar preparation of IPA ref.std.or working std
	Identification D-	-	To 1 ml,add 4 ml of water and mix carefully add 2 ml of 1%w/v solution of dimethylaminobenzaldehyde in sulphuric acid, ensure that liquid do not mix; a bright reddish-violet ring forms immediately at the junction of 2 liquids. After 2 to 5 minutes, the entire sulphuric acid layer turns violet.
4	Appearance of solution	-	Isopropyl alcohol is clear and colourless. A 5 % v/v solution of Isopropyl alcohol in water remains clear after 5 minutes.
5	Acidity or Alkalinity	ml	NMT 0.6 ml of 0.01 M Sodium Hydroxide is required to change the colour of the solution to pale pink.
6	Absorbance , maximum	-	At 230 nm is 0.30
		-	At 250 nm is 0.10
		-	At 270 nm is 0.03
		-	At 290 nm is 0.02
		-	At 310 nm is 0.01

Prepared by	Checked by	Approved by
 Manager-QA	 AGM-QA	 Sr.GM-QA



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Unit	DFPCL, K2-K6		Version	2.4	
7	Refractive index at 20°C		-	1.376 to 1.379	
8	Relative density at 20°C		g.	0.785 to 0.789	
9	Peroxides			No colouration is produced after 30 minutes	
10	Benzene and related substance		-	Test solution (a) not more than 0.5 times the area of the corresponding peak in the chromatogram obtained with reference solution (b) (≤ 2 ppm)	
			%v/v	Total impurities apart from 2-Butanol NMT 0.3	
11	Non volatile substances		ppm	NMT 20	
12	Water		%w/w	NMT 0.5	
13	Assay		%v/v	NLT 99.0	

Inhouse test

1	Residual Solvents		%w/w	1-Propanol NMT 0.2%	
			%w/w	Cyclohexane NMT 0.005%	

Reference: Indian Pharmacopeia 2018 addendum 2021

- DC No. Document Control Number
- FP Finish Product
- UOM Unit of measurement
- w/w Weight by weight
- NMT Not more than
- NLT Not less than
- v/v volume by volume

Prepared by	Checked by	Approved by
 20/12/2021 Manager-QA	 20/12/2021 AGM-QA	 20/12/2021 Sr.GM-QA