



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

Finish Product Specification

Title	ISO PROPYL ALCOHOL FG	DC No.	QA/FP/SPE/IPA/08
Mol. Wt.	60.1		
Chemical formula	C3H8O	CAS No.:	67-63-0
Issue Date	14/03/2019	Review Date	13/03/2021
Unit	DFPCL, K1	Version	NIL

S. No.	Characteristics	UOM	Specification
1	Description	-	Clear colourless liquid with characteristic odour.
2	Solubility	-	Miscible with water, with chloroform and with ether.
3	Identification	-	IR spectrum of sample exhibits maxima at the same wavelength as that of a similar preparation of USP IPA ref.std.or working std
4	Each individual Impurities (Total Impurities, maximum	%w/w	0.100
5	Acidity or Alkalinity , maximum	ml	0.6 ml of 0.01 N Sodium Hydroxide (required to change the colour of the indicator to pale pink)
6	Absorbance by UV at 230 nm , maximum	-	0.300
	Absorbance by UV at 250 nm , maximum	-	0.100
	Absorbance by UV at 270 nm , maximum	-	0.030
	Absorbance by UV at 290 nm , maximum	-	0.020
	Absorbance by UV at 310 nm , maximum	-	0.010
7	Peroxides	NA	Passes test
8	Heavy Metal		
	Arsenic (As)	ppm	≤ 3 ppm
	cadmium (Cd)	ppm	≤ 1 ppm
	Mercury (Hg)	ppm	≤ 1 ppm
	Lead (pb)	ppm	≤ 1 ppm
9	Substance reducing (by KmnO4)	NA	Pass



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10	Non volatile residue , maximum	%w/v	0.002
11	Water content , maximum	%w/w	0.100
12	Assay by GC , minimum	%w/w	99.80
	Total Impurities, maximum	%w/w	1.000
	Each individual Impurities maximum	%w/w	0.100
13	Distillation range, minimum at 81°C & 83°C	%v/v	99%
14	Aldehydes and Ketones , maximum	ml	2.0 ml of 0.1 M Sodium Hydroxide required to perform the test
15	Water insoluble matter	-	Mix 1 vol with 19 vol of water - No opalescence is produced.
16	Residual solvents 1- propanol , maximum	%w/w	0.2000
	Residual solvents cyclohexane , maximum	%w/w	0.0050

DC No. Document Control Number
FP Finish Product
UOM Unit of measurement
w/w Weight by weight

Prepared by	Checked by	Approved by		
Manager-QA	AGM-QA	Sr.GM-QA	AVP- Manufacturing	EVP-Sales