

Product Name:		ISO PROPYL ALCOHOL IP					
DC No.		QA/FP/SPE/IPA/04					
CAS No:		67-63-0					
Chemical formula		СЗН8О	C3H8O				
Mol. Wt. Issue Date	1	60.1 20/12/2021					
Version		2.4	2.4				
S. No.	Characteris	tics	UOM	Specification			
1	Description		-	A Clear colourless liquid .			
2	Solubility		-	Miscible with water, with chloroform, and with ether			
3	Identificatio	on A- Relative density at 20°C	g.	0.785 to 0.789			
	Identificatio	on B- Refractive index at 20°C	-	1.376 to 1.379			
	Identificatio	on 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			
	Identificatio	on 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			
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 A	lkalinity	ml	NMT 0.6 ml of 0.01 M Sodium Hydroxide is required to change thecolour of the solution to pale pink.			
6	Absorbance	e , 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			
7	Refractive i	ndex at 20°C	-	1.376 to 1.379			
8	Relative de	nsity at 20°C	g.	0.785 to 0.789			
9	Peroxides			No colouration is produced after 30 minutes			



Product Name:		ISO PROPYL ALCOHOL IP		
DC No.		QA/FP/SPE/IPA/04		
CAS No:		67-63-0		
Chemical f	ormula	C3H8O		
Mol. Wt.		60.1		
Issue Date		20/12/2021		
10 Benzene and		d 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		substances	ppm	NMT 20
12	Water		%w/w	NMT 0.5
13	3 Assay		%v/v	NLT 99.0
Inhouse test				
1 Residual Solv		vents	%w/w	1-Propanol NMT 0.1%
			%w/w	Cyclohexane NMT 0.005%
Reference: Indian Pharmacopeia				
DC No.		Document Control Number		
FP	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



Product Name:		ISO PROPYL ALCOHOL USP						
DC No.		QA/FP/SPE/IPA/02						
CAS No:		67-63-0						
Chemic	al formula	C3H8O						
Mol.		60.1						
lssue Da	ate	20/12/2021						
Version		2.4						
S. No.	Character	istics	UOM	Specification				
1	Definition			Isopropyl Alcohol contains NLT 99.0% of isopropyl alcohol (C3H8O)				
2	Identificat	ion						
	A .Spectroscopic Identification Test, Infrared spectrosco		-	IR spectrum of the sample exbibits maxima at the same wavelength as that of a similar preparation of USP IPA resistor working std				
	B by GC		-	The retention time of major peak of the sample solution corresponds to the 2-propanol peak of the system suitability solution, as obtained in the Assay.				
	C .Limit o	fmethanol	%v/v	Methanol NMT 0.02 (200 ppm)				
3	Assay		%w/w	NLT 99.0				
4	Limit of vo	platile impurities	%v/v	i) Ethyl acetate-NMT 0.1 %				
				ii) Acetone-NMT 0.1 %				
				iii) Di isopropyl ether-NMT 0.1 %				
				iv) 1-Propanol-NMT 0.1 %				
				v) 2-Butanol-NMT 0.1 %				
				vi) Total impurity - NMT 1.0 %				
5	Limit of no	onvolatile residue ,	%w/v	NMT 0.005 (2.5 mg)				
6	Specific gravity at 25 °C		-	0.783 to 0.787				



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DC No.		QA/FP/SPE/IPA/02					
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Chemica	al formula	С3Н8О					
Mol.		60.1					
Issue Da	ate	20/12/2021					
Version		2.4					
S. No.	Characteristics		UOM	Specification			
7	Refractive index at 20 °c.		-	1.376 to 1.378			
8	Acidity ,		ml	NMT 0.70 ml of 0.02 N Sodium Hydroxide (required for neutralization of 50 ml sample)			
9	Water Determination ,		%w/w	NMT 0.5 (5.0 g. sample)			
10	Description		-	Clear colourless liquid with characteristic odour			
11	Solubility		-	Miscible with purified water, Ether, Alcohol and Chloroform.			
	In House t	rest					
1	Residual s	olvent	%w/w	1-Propanol NMT 0.1%			
				Cyclohexane NMT 0.005%			

Reference: USP Pharmacopeia

- 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



Product Name:	ISO PROPYL ALCOHOL BP/Ph.Eur.
DC No.	QA/FP/SPE/IPA/03
CAS No:	67-63-0
Chemical formula	С3Н8О
Mol. Wt.	60.1
Issue Date	20/12/2021
Version	2.3

S. No.	Characteristics	UOM	Specification
1	Appearance	-	Clear colourless liquid .
2	Solubility	-	Miscible with water and with ethanol (96%) .
3	Identification - A	-	Relative density is between 0.785 to 0.789
4	Identification - B	-	Refractive index is between 1.376 to 1.379
5	Identification - C	-	IR spectrum of sample exibits maxima at the same wavelength as that of a similar preparation of IPA ref.std.or working std
6	Identification - D	-	To1 ml add 4 ml of water and mix.Carefully add 2 ml of 10 g/l sol.of dimethylaminobenzaldehyde in sulphuric acid ensuring that the liq do not mix;a bright reddish-violet ring forms immediately at the junction of the 2 liq.After 2-5 mins,the entire sulphuric acid layers turns violet
7	Appearance	-	The substance to be examined is clear and colourless.Sample in water (1:20) is clear after 5 minutes.
8	Acidity or Alkalinity	ml	NMT 0.6 ml of 0.01 M Sodium Hydroxide is required to change the colour of the indicator to pale pink.
9	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



Product Name	::	ISO PROPYL ALCOHOL BP/Ph	ı.Eur.	
DC No.		QA/FP/SPE/IPA/03		
CAS No:		67-63-0		
Chemical form	iula	СЗН8О		
Mol. Wt.		60.1		
Issue Date		20/12/2021		
Version		2.3		
			-	At 310 nm is 0.01
10	Benzene and	d related substances		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	Peroxides		-	No colour develops .
12	Non- volatile	e substances, maximum	mg	2 (20 ppm)
13	Water, max	kimum	%w/w	0.5
Reference: Br	itish /Ph . Eur	Pharmacopeia		
DC No.		Document Control Number		
FP		Finish Product		
UOM		Unit of measurement		
w/w		Weight by weight		
NMT		Not more than		



Product Name:		ISO PROPYL ALCOHOL IP/BP/Ph.Eur /USP						
DC No.		QA/FP/SPE/IPA/05						
CAS No:		67-63-0						
Chemical formula		C3H8O	C3H8O					
Mol. Wt.		60.1						
Issue Date	2	18/08/2021						
Version		2.3						
S. No.	Characte	ristics	UOM	Specification				
1	Descriptio	on	-	Clear colourless liquid with characteristic odour.				
2	Solubility		-	Miscible with water, ethanol (96 %),ether and chloroform .				
3	Identifica	tion						
	A) By IR		-	IR absorption spectrum of sample exibits maxima at the same wavelength as that of IPA ref.std.or working std				
	B) Relati	ive density at 20 ° C	-	Between 0.785 to 0.789				
C) Chemi		ical test	-	Colour changes to blue				
	D) Chemi	cal test		A white or yellowish precipitate is produced with mercuric sulphate solution				
	E) Chemi	ical test	-	Acetone recognizable by its odour is evolved with dilute potassium dichromate solution and sulphuric acid				
	F) Refrac	tive index at 20 ° C	-	Between 1.377 to 1.378				
	G) Identif	fication 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				
	H) Identi	fication	-	After 2-5 minutes ,the entire sulphuric acid layer turns violet.				
4	Specific gravity at 25 °C		-	Between 0.783 to 0.787				
5	Weight p	er mL	-	Between 0.782 to 0.786 gm				
6	Refractive	e index at 20°C		Between 1.377 to 1.378				
7	Appearar	nce of solution	-	A) The subsatance to be examined is clear and colorless				



Product Name:		ISO PROPYL ALCOHOL IP/BP/Ph.Eur /USP					
DC No.		QA/FP/SPE/IPA/05					
CAS No:		67-63-0					
Chemical fo	ormula	СЗН8О					
Mol. Wt.		60.1					
Issue Date		18/08/2021					
Version		2.3					
				B) Sample (1 in 20) is clear after 5 min			
5 8	Limit of vo	latile impurities	%	A) Diethyl ether is NMT 0.1 %			
				B) Acetone is NMT 0.1 %			
				C) Di isopropyl ether is NMT 0.1 %			
				D) n-Propyl alcohol is NMT 0.1 %			
				E) 2-Butanol NMT 0.1 %			
				F) Total Impurities is NMT 1.0 %			
9 10	Acidity or		ml	NMT 0.6 ml of 0.01 N Sodium Hydroxide is required to change the colour of the indicator to pale pink . NMT 0.7 ml of 0.02 N NaOH is required for neutralization .			
11	Absorband	e	-	At 230 nm is NMT 0.30			
				At 250 nm is NMT 0.10			
				At 270 nm is NMT 0.03			
				At 290 nm is NMT 0.02			
				At 310 nm is NMT 0.01			
12	Benzene &	total related Substances by GC	ppm	A) Benzene is NMT 2 ppm			
			%v/v	B) Total impurity apart from 2-butanol is NMT 0.3%			
13	Peroxides		-	No colour develops .			
14	Non volati	le substances	%w/v	NMT 20 ppm			
15	Water		%w/w	NMT 0.5			



Product Name:		ISO PROPYL ALCOHOL IP/BP/Ph.Eur /USP					
DC No.		QA/FP/SPE/IPA/05					
CAS No:		67-63-0					
Chemical f	ormula	C3H8O					
Mol. Wt.		60.1					
Issue Date		18/08/2021					
Version		2.3					
16	Assay		%w/w	NLT 99.0			
17	Distillation range		%v/v	NLT 95.0 %v/v distils between 81° C and 83°			
18	Aldehydes and Ketones		ml	C NMT 2.0 ml of 0.1 M Sodium Hydroxide required .			
19	Water ins	soluble matter	-	No opalescence is produced.			
	Inhouse test						
20	20 Residual Solvents By GC		% w/w	Cyclohexane NMT 0.005%			
				1-Propanol NMT 0.2%			
21 Methanol		l Content By GC	ppm	NMT 200			
DC No.		Document Control Number					
FP		Finish Product					
UOM		Unit of measurement					
w/w		Weight by weight					
NMT		Not more than	Not more than				
NLT		Not less than					
w/v		Weight by volume					
v/v		Volume by volume					
ppm		Part per millions					



Product Name:	ISO PROPYL ALCOHOL CP
DC No.	QA/FP/SPE/IPA/23
CAS No:	67-63-0
Chemical formula	C3H8O
Mol. Wt.	60.1
Issue Date	20/12/2021
Version	2.1

S. No.	Characteristics	UOM	Specification
1	Description	-	A colourless and clear liquid .
2	Solubility	-	Miscible with water, with methanol , with ethanol and with ether.
3	Relative density at 20°C	-	0.785 to 0.788
4	Refractive index at 20 °c.	-	1.376 to 1.379
5	Identification - 1	-	A light yellow precipitate and a characteristic odour of iodoform are produced. Turns filter paper ,previously wetted with a
			solution of salicylaldehyde in ethanol (1:10) and with 30%hydroxide solution ,to reddish brown.
	Identification - 3	-	IR spectrum of sample exibits maxima at the same wavelength as that of a similar preparation of IPA ref.std.or working std
6	Acidity	-	Not more than 1.4 ml NaOH (0.01 mol/L) is required.
7	Clarity and colour of solution	-	The solution is clear and colourless.
8	Absorbance	-	At 230 nm is NMT 0.30
		-	At 250 nm is NMT 0.10
		-	At 270 nm is NMT 0.03
		-	At 290 nm is NMT 0.02
		-	At 310 nm is NMT 0.01
9	Water insoluble substance	-	Allow to stand for 5 minutes, the solution maintains clear.
10	Non volatile matter	-	The residue is not more tham 1.0mg (0.002% gm /ml)
11	Readily oxidizable substance	-	The pink colour of substance does not disappear completely after 15 min.
12	Readily carbonizable substance	-	Any coluur produced is not more intense than that of the reference solutuion Y1.



Product Name:		ISO PROPYL ALCOHOL CP		
DC No.		QA/FP/SPE/IPA/23		
CAS No:		67-63-0		
Chemic	al formula	СЗН8О		
Mol. W	't.	60.1		
Issue D	ate	20/12/2021		
Version	ı	2.1		
13 Carbonyl co		ompound	-	The dark red colour produced is not more intense than that of 0.50 ml of the reference solution (CO) obtained in the same way .
14 Water			%w/w	NMT 0.2
15 Benzene and related substances		nd related substances	-	Test solution (a) not more than 0.5 times the area of the corresponding peak in the chomatogram obtained with reference solution (b) (≤ 2 ppm)
			%v/v	Total impurities apart from 2-Butanol NMT 0.3
Reference: China Pharmacopeia		harmacopeia		
DC No.		Document Control Number		
FP		Finish Product		
UOM		Unit of measurement		

- w/w Weight by weight
- NMT Not more than



Product Name:	ISO PROPYL ALCOHOL COSMETIC Grade
DC No.	QA/FP/SPE/IPA/06
CAS No:	67-63-0
Chemical formula	C3H8O
Mol. Wt.	60.1
Issue Date	23/04 /2021
Version	2.2

Sr.	Characteristics	UOM	Specification
No. 1	Odour	-	Soft top note with characteristic odour
2	Appearance	-	Clear colourless liquid free from suspended particles.
3	Purity	%w/w	≥ 99.80
4	Colour	Pt-co	≤ 5
5	Density at 20° C	gm/ml	0.785 to 0.786
6	Refractive index at 20 °C	-	1.376 to 1.377
7	Acidity as acetic acid	ppm	≤ 10
8	Non volatile matter	gm/100m	≤ 0.001
9	water miscibility	-	Miscible
10	Water content	%w/w	0.1

Reference: In House

Abbreviations:

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



Product Name:	ISO PROPYL ALCOHOL Food Grade
DC No.	QA/FP/SPE/IPA/08
CAS No:	67-63-0
Chemical formula	С3Н8О
Mol. Wt.	60.1
Issue Date	30/09/2021
Version	2.1

S. No.	Characteristics	UOM	Specification
1	Appearance (Color)	-	Colourless
2	Appearance (Form)	-	Liquid
3	Refractive index at 20 ° C	-	1.377- 1.380
4	Infrared spectrum	-	Conforms
5	Purity (GC)	%w/v	≥ 99.7
6	Boiling point by DSC	° C	81.3-83.3
7	Water (by karl fischer)	%	≤ 0.2
8	Solubility (Turbidity)	-	Clear
9	Solubility (Colour) 10 ml/40 ml water	-	Colorless
10	Residue on evaporation	ppm	≤ 10
11	Specific gravity at 25 ° C	-	≤ 0.784
12	Substance reducing (by KMnO4)	-	Pass
13	Acidity	-	Pass
14	* Heavy Metal		
	Arsenic (As)	ppm	≤ 3
	Cadmium (Cd)	ppm	≤1
	Lead (Pb)	ppm	≤ 1

Reference: In House

DC No.	Document Control Number
FP	Finish Product
UOM	Unit of measurement
w/w	Weight by weight
%w/v	Weight by volume
*	Heavy Metal test analyse on annual basis.



Product Name:	ISO PROPYL ALCOHOL LR Grade
DC No.	QA/FP/SPE/IPA/09
CAS No:	67-63-0
Chemical formula	СЗН8О
Mol. Wt.	60.1
Issue Date	24/08/2021
Version	2.1

S. No.	Characteristics	UOM	Specification
1	Description	-	A Clear, colourless liquid with characteristic odour.
2	Assay (GC)	%w/w	>= 99.0
3	Identification by FTIR	-	Conforms
4	Weight per ml (at 20 °c.)	gm	0.784 to 0.786
5	Residue After Evaporation	%w/v	<= 0.00200
6	Water content , maximum	%w/w	<=0.200

Reference:	Method of analysis as per USP
DC No.	Document Control Number
FP	Finish Product
UOM	Unit of measurement

w/w	Weight by weight
%w/v	Weight by volume



Product Name:	ISOPROPYL ALCOHOL Rubbing Alcohol				
DC No.	QA/FP/SPE/IPA/15				
CAS No:	67-63-0				
Chemical formula	СЗН8О				
Mol. Wt.	60.1				
Issue Date	18-11-2020				
Version	2.0				
Sr. No. Characterist	tics	UOM	Specification		
1 Description		-	Clear colourless liquid with characteristic odour		
2 Specific grav	vity at 20 °C		0.872 to 0.883		
3 Acidity		ml	Not more than 1.0 ml of 0.02 M NaOH		
4 Limit Nonvolatile residue		mg	Not more than 5.0 mg		
5 Assay by GC	Assay by GC		68.0 to 72.0		
Reference: Indian Pharmacopeia					
Abbreviations:					
DC No.	Document Control Number				
FP	Finish Product				
UOM	Unit of measurement				
v/v	volume by volume				
GC Gas chromatography					



Product Name: ISO PROPYL ALCOHOL AR Grade

DC No.	QA/FP/SPE/IPA/22
CAS No:	67-63-0
Chemical	C3H8O
Mol. Wt.	60.1
Issue Date	12/01/2022
Version	2.0

S. No.	Characteristics	UOM	Specification
1	Appearance (Clarity)	-	Clear
2	Appearance (colour)	-	Colourless
3	Appearance (Form)	-	Liquid
4	Colour (APHA)	APHA	Max 10
5	Assay (GC)	%w/w	Min 99.5
6	Density @20°C	g/ml	0.784-0.786
7	Refractive Index@ 20°C	-	1.377-1.378
8	Boiling Range	°C	81-83
9	Non volatile matter	%w/w	Max 0.001
10	Acidity as C3H6O2	%w/w	Max 0.001
11	Substance reducing permagnate (O)	%w/w	max0.0005
12	Iron (Fe)	%w/w	Max 0.0001
13	Aldehyde & Ketone	%w/w	Max 0.005
14	Heavy metal (pb)	%w/w	Max 0.0001
15	Ethanol (GC)	%w/w	Max 0.01
16	Methanol (GC)	%w/w	Max 0.01
17	Water (by Karl Fisher)	%	Max 0.1

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



Product Name: ISO PROPYL ALCOHOL Electronic Grade						
DC No.		QA/FP/SPE/IPA/20				
CAS No:		67-63-0				
Chemical formula		СЗН8О				
Mol. Wt.		60.1				
Issue Date		10-08-2021				
Version		2.0				
S. No.	Characteri	stics	UOM	Specification		
1	Appearanc	e (Color)	-	Colourless		
2	Appearanc	e (Form)	-	Liquid		
3	Infrared sp	ectrum	-	Confirms to structure		
4	Purity (GC)		%	NLT 99.9		
5	Acetone		%	NMT 0.01		
6	Water (by	Karl Fisher)	%	NMT 0.05		
7	Residue on	evaporation	%	NMT 0.0005		
8	Free Acid a	s Acetic acid	%	NMT 0.001		
9	Aluminum	(AI)	ppb	NMT 10		
10	Antimony	(Sb)	ppb	NMT 10		
11	Arsenic (As	.)	ppb	NMT 10		
12	Barium (Ba)	ppb	NMT 10		
13	Beryllium (Be)	ppb	NMT 10		
14	Bismuth (B	i)	ppb	NMT 10		
15	Boron (B)		ppb	NMT 10		
16	Cadmium (Cd)	ppb	NMT 10		
17	Calcium (C	a)	ppb	NMT 10		
18	Chromium	(Cr)	ppb	NMT 10		
19	Cobalt (Co)		ppb	NMT 10		
20	Copper (Cu	1)	ppb	NMT 10		
21	Gallium (G	a)	ppb	NMT 10		
22	Germaniur	n (Ge)	ppb	NMT 10		
23	Gold (Au)		ppb	NMT 10		
24	Indium (In)		ppb	NMT 10		
25	Iron		ppb	NMT 10		
26	Lead (Pb)			NMT 10		

Product	t Name:	ISO PROPYL ALCOHOL Electronic Grade		
DC No.		QA/FP/SPE/IPA/20		
CAS No	:	67-63-0		
Chemic	al formula	СЗН8О		
Mol. W	t.	60.1		
Issue Date		10-08-2021		
Version		2.0		
S. No.	Characteris	stics	UOM	Specification
27	Lithium (Li)		ppb	NMT 10
28	Magnesium (Mg)		ppb	NMT 10
29	Manganese (Mn)		ppb	NMT 10
30	Molybdenum (Mo)		ppb	NMT 10
31	Nickel (Ni)		ppb	NMT 10
32	Platinum (F	Pt)	ppb	NMT 10
33	Potassium	(К)	ppb	NMT 10
34	Silver (Ag)		ppb	NMT 10
35	Sodium (Na	a)	ppb	NMT 10
36	Strontium	(Sr)	ppb	NMT 10
37	Thallium (T	1)	ppb	NMT 10
38	Tin (Sn)		ppb	NMT 10
39	Titanium (T	ī)	ppb	NMT 10
40	Vanadium	(V)	ppb	NMT 10
41	Zinc		ppb	NMT 20
42	Zirconium ((Zr)	ppb	NMT 10

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