

ISOPROPYL ALCOHOL BP SPECIFICATION

Sr.No.	Test	Specification
1	Appearance	Clear, colourless liquid.
2	Solubility	Miscible with water and with ethanol (96%).
3	Identification	
	a) Relative density at 20°C	0.785 to 0.789 at 20°C
	b) Refractive index at 20 ± 0.5°C	1.376 to 1.379 at 20 ± 0.5°C
	c) Chemical test	The bright reddish-violet ring forms immediately at the junction of the 2 liquids. After 2-5 min, the entire sulfuric acid layer turns violet.
	d) By IR	The spectrum obtained with the substance to be examine corresponds in position & relative intensity to those in the spectrum obtained with that of Isopropyl alcohol Ph.Eur CRS or its Working standard. (Purity index should not be less than 0.99)
4	Appearance of solution	The substance to be examined is clear and colourless. The solution is clear.
5	Acidity or alkalinity	Not more than 0.6 ml of 0.01M sodium hydroxide is required to Change the colour of the indicator to pale pink.
6	Absorbance At 230 nm At 250 nm At 270 nm At 290 nm At 310 nm Between 230nm to 310nm	Maximum 0.30 Maximum 0.10 Maximum 0.03 Maximum 0.02 Maximum 0.01 The spectrum shows a steadily descending curve with no observable peaks or shoulders.
7	Benzene and related Substances (By GC) Benzene Total of impurities apart from 2-butanol	Not more than 2 ppm Not more than 0.3%
8	Peroxides	No colour should be developed.
9	Non volatile substances	Maximum 20 ppm
10	Water	Maximum 0.5%
11	Residual solvents (By GC) a) Benzene b) Methanol c) Acetone d) Diisopropyl ether e) Diethyl ether f) n-propanol	NMT 2ppm v/v NMT 3000ppm v/v NMT 5000ppm v/v NMT 5000ppm v/v NMT 5000ppm v/v NMT 5000ppm v/v