

ISOPROPYL ALCOHOL IP SPECIFICATION

Sr.No.	Test	Specifications
1	Description`	Clear, colourless liquid .
2	Solubility	Miscible with water, with chloroform ,with ether and with ethanol (95 per cent).
3	Identification A) Relative density at 20 °C	0.785 to 0.789 at 20°C
	B) Refractive index at 20°C	1.376 to 1.379 at 20°C
	C) Chemical test	The bright reddish-violet ring forms immediately at the junction of the 2 liquids. After 2 to 5 minutes, the entire sulfuric acid layer turns violet.
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 solution to pale pink.
6	Absorbance At 230 nm	Maximum 0.30
	At 250 nm	Maximum 0.10
	At 270 nm	Maximum 0.03
	At 290 nm	Maximum 0.02
	At 310 nm	Maximum 0.01
	Between 230 nm to 310 nm	The spectrum shows a steadily descending curve with no observable peaks or shoulders.
7	Refractive index at 20°C	1.376 to 1.379 at 20°C
8	Relative density at 20°C	0.785 to 0.789 at 20°C
9	Peroxides	No colour should be developed.
10	Benzene and related sub. (By GC) Benzene	Not more than 2 ppm
	Total of impurities apart from 2-butanol	Not more than 0.3%
11	Non volatile substances	Not more than 20 ppm
12	Water	Not more than 0.5 %
13	Assay	Not less than 99.0 per cent v/v
14	Residual solvents (By GC)	
	a) Benzene	NMT 2 ppm v/v

ISOPROPYL ALCOHOL IP SPECIFICATION WITH

b) Methanol	NMT 3000 ppm v/v
c) Acetone	NMT 5000 ppm v/v
d) Diisopropyl ether	NMT 5000 ppm v/v
e) Diethyl ether	NMT 5000 ppm v/v
f) n-Propanol	NMT 5000 ppm v/v