

ISOPROPYL ALCOHOL USP SPECIFICATION

Sr.No.	Test	Specification
1	Description	Transparent, colorless, mobile, volatile liquid having a Characteristic odour and a slightly bitter taste. Is flammable.
2	Solubility	Miscible with water, with alcohol, with ether and with chloroform.
3	Identification A) 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 USP CRS or its Working standard. (Purity index should not be less than 0.99)
	B) By GC	The retention time of the major peak of the substance to be examine corresponds to 2-propanol peak of the system suitability solution, as obtained in the Assay.
	C) Limit of Methanol	Not more than 0.02%
4	Specific gravity at 25°C	Between 0.783 and 0.787 at 25°C
5	Refractive index at 20°C	Between 1.376 and 1.378 at 20°C
6	Acidity	Not more than 0.70 ml of 0.020 N sodium hydroxide is required for neutralization.
7	Limit of non volatile residue	Not more than 2.5 mg (0.005%)
8	Water	Not more than 0.5%
9	Assay (By GC)	Not less than 99.0%
10	Limit of volatile impurities (BY GC) Methanol Each individual known impurities a) Ethyl ether b) Acetone c) Diisopropyl ether d) 1-Propanol e) 2-Butanol f) Individual unspecified impurity g) Total Impurity	Not more than 0.02 % v/v Not more than 0.1% v/v Not more than 0.1% v/v Not more than 0.1% v/v Not more than 0.1% v/v Not more than 0.1%v/v Not more than 1.0%v/v
11	Residual solvents (BY GC) a) Benzene	NMT 2 ppm v/v