

ISOPROPYL ALCOHOL USP SPECIFICATION

Sr.No.	Tests	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.
4	Specific gravity at 25°C	Between 0.783 and 0.787
5	Refractive index at 20°C	Between 1.376 and 1.378
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 Each individual a) Ethyl ether b) Acetone c) Diisopropyl ether d) 1-Propanol e) 2-Butanol f) Total	Not more than 0.1% Not more than 0.1% Not more than 0.1% Not more than 0.1% Not more than 0.1% Not more than 1.0%
11	Residual solvents a) Benzene b) Methanol c) Acetone d) Diisopropyl Ether e) Diethyl Ether f) n-Propanol	NMT 2 ppm v/v NMT 3000 ppm v/v NMT 5000 ppm v/v NMT 5000 ppm v/v NMT 5000 ppm v/v NMT 5000 ppm v/v