

ETHYL ACETATE BP SPECIFICATION

Sr. No.	Test	Specifications
1	Appearance	Clear, colourless , volatile liquid.
2	Solubility	Soluble in water, miscible with acetone , with ethanol (96 per cent)and with methylene chloride.
3	Identification	
	A. Boiling point	76°C to 78°C.
	B. Chemical test (Reaction of Acetyl)	After 1 min. to 2 min.,a blue colour develops at the junction of the two drops, the colour intensifies and persists for a short time.
	C. Chemical test (Reaction of Esters)	A bluish-red or red colour is produced.
	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 Ethyl acetate Ph.Eur CRS or its Working standard. (Purity index should not be less than 0.99)
4	Appearance of solution	The solution is clear and colourless.
5	Acidity	The solution remains pink for not less than 15 seconds.
6	Relative density at 20°C	0.898 to 0.902 at 20°C.
7	Refractive index at 20 ± 0.5°C	1.370 to 1.373 at 20 ± 0.5°C.
8	Reaction with Sulfuric acid	After 15 mins. the interface between the 2 liquids is not coloured.
9	Related substances Total	Not more than 0.2%
10	Residue on evaporation	Maximum 30 ppm.
11	Water	Maximum 0.1%.
12	Residual solvents (By GC) a) Ethanol b) Acetic acid	Not more than 5000 ppm v/v Not more than 5000 ppm v/v