

ACETONE BP SPECIFICATION

Sr.No.	Test	Specifications
1	Appearance	Volatile, clear, colourless liquid.
2	Solubility	Miscible with water and with ethanol (96%).
3	Identification	
	a) Relative density at 20°C	0.790 to 0.793 at 20°C
	b) Chemical test	An intense red colour is produced which becomes violet with the addition of 3.5ml of acetic acid R.
	c) Chemical test	A greenish-blue colour should be produced.
4	Appearance of solution	The solution is clear and colourless.
5	Acidity or alkalinity	On addition of 0.5 ml of 0.01M sodium hydroxide, solution should be pink. On addition of 0.7 ml of 0.01M hydrochloric acid, solution should be red or orange.
6	Relative density at 20°C	0.790 to 0.793 at 20°C
7	Reducing substances	The mixture should not be completely decolourised.
8	Related substances (By GC) a) Impurity A (Methanol) b) Impurity B (IPA) c) Impurity C (Benzene) d) Any other impurity	Not more than 0.05% v/v Not more than 0.05% v/v Not more than 2 ppm v/v Not more than 0.05% v/v
9	Matter insoluble in water	The solution should be clear.
10	Residue on evaporation	Maximum 50 ppm
11	Water	Maximum 3 g/L
12	Residual solvents (By GC) a) Benzene b) Methanol c) 2-Propanol	Not more than 2 ppm v/v Not more than 3000 ppm v/v Not more than 5000 ppm v/v