

S.No	PARAMETER	METHOD	LIMIT	
			91	95
1	Colour, Visual		Orange	Red
2	Density @ 15°C, kg/m ³	IS 1448 P :16/ ASTM D 4052	720- 775	720- 775
3	Distillation	IS 1448 P :18 / ASTM D 86		
	a) Recovery upto 70°C, %v		10-45	10-45
	b) Recovery upto 100°C, %v		40-70	40-70
	c) Recovery upto 150°C, %v, min		75	75
	d) FBP, °C, max		210	210
	e) Residue, %v, max		2	2
4	Research Octane Number (RON), Min	IS 1448 P :27 / ASTM D 2699	91	95
5	Motor Octane Number (MON), Min	IS 1448 P :26 / ASTM D 2700	81	85
6	Existent gum g/m ³ , Max	IS 1448 P :29 /ASTM D 381	40	40
7	Sulphur, Total, % by mass, Max	ISO 14596 / ASTM D 5453	0.015	0.015
8	Lead Content (as Pb), g/L, max	IP 352/ASTM 5059	0.005	0.005
9	Reid Vapour Pressure @ 38°C, kPa ⁽¹⁾	IS 1448 P :39/ASTM D 323	60	60
10	Vapour Lock Index (VLI), Max			
	a) Summer		750	750
	b) Other months (Winter)		950	950
11	Benzene content, % v , Max	ASTM D3606	1	1
12	Copper Strip Corrosion (3 hrs. @ 50°C)	IS 1448 P :15 / ASTM D 130	Not more than 1	Not more than 1
13	Olefin content, %v Max	IS 1448 P : 23/ASTM D 6730	21	18
14	Oxidation Stability, minutes, Min	IS 1448 P : 28/ ASTM D525	360	360
15	Aromatics content, %v, Max	IS 1448 P : 23 /ASTM D 5580	42	42
16	Oxygen content, %wt, Max	ASTM D 4815 /IP 408	2.7	2.7
17	Oxygenates content, %v, Max	ASTM D 4815 /IP 408		
	a) Methanol		Nil	Nil
	b) Ethanol		5	5
	c) Iso-propyl alcohol		10	10
	d) Iso-butyl alcohol		10	10
	e) Tertiary-butyl alcohol		7	7
	f) Ethers containing 5 or more carbon atoms per molecule		15	15
	g) Other oxygenates		8	8