

Ethanol 95 %v/v

| Item | Standard | Test Method |
|--|-----------------|-------------|
| 1. % Alcohol @ 15°C (%v/v) | 95.1 - 96.9 | ASTM D 4052 |
| 2. Specific gravity @ 15°C (g/cm ³) | 0.809 – 0.816 | ASTM D 4052 |
| 3. % Alcohol @ 15.56°C (%v/v) | 94.9 – 96.0 | ASTM D 4052 |
| 4. Specific gravity @ 15.56°C (g/cm ³) | 0.812 – 0.816 | ASTM D 4052 |
| 5. % Alcohol @ 20 °C (%v/v) | 95.1 – 96.9 | ASTM D 4052 |
| 6. Specific gravity @ 20°C (g/cm ³) | 0.805 – 0.812 | ASTM D 4052 |
| 7. Acidity or Alkalinity (mg/l) | ≤ 30 | BP 2014 |
| 8. Absorbance : | | BP 2014 |
| at 240 nm | ≤ 0.40 | |
| between 250 nm and 260 nm | ≤ 0.30 | |
| between 270 nm and 340 nm | ≤ 0.10 | |
| The absorption curve is smooth | Conforms | |
| 9. Volatile impurities | | BP 2014 |
| -Acetaldehyde and Acetal, expressed as acetaldehyde (ppm) | ≤ 10 | |
| -Benzene (ppm) | ≤ 2.0 | |
| -Methanol (ppm) | ≤ 200 | |
| -Total of other impurities (ppm) | ≤ 300 | |
| 10. Residue on evaporation (ppm) | ≤ 25 | BP 2014 |
| 11. Lead (mg/kg) | ≤ 0.5 , (JECFA) | ICP-Method |
| 12. Permanganate time | ≥ 15 min | BS 6392-9 |
| 13. Color of solution | ≤ 10 Hazen | ASTM D 1209 |
| 14. Boiling Point | About 78 °C | - |

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|-------------------------|---|--------------------|
| 15. Identify (IR) | IR spectrum is conforms | BP 2014 |
| 16. Solubility | Miscible with water and with methylene chloride | BP 2014 |
| 17. Appearance | Clear, Colourless , Volatiles, Flammable liquid, Hygroscopic | BP 2014 |
| 18. Clarity of solution | The same clarity as that of water or their opalescence is not more pronounced than that of Standard suspension A. | BP 2014 |