

METHANOL Ph.Eur SPECIFICATION

| Sr.No. | Test | Specification |
|--------|---------------------------------|---|
| 1 | Appearance | Clear, colourless volatile, hygroscopic liquid. |
| 2 | Solubility | Miscible with water and with methylene chloride. |
| 3. | Boiling point | About 64°C. |
| 4 | Identification | |
| | a) Refractive index at 20±0.5°C | 1.328 to 1.330 at 20±0.5°C |
| | b) By IR | Comparison with Ph. Eur. Reference spectrum of methanol. |
| 5 | Appearance of solution | The substance to be examined is clear and colourless. |
| 6 | Acidity or alkalinity | Not more than 0.9 ml of 0.01M sodium hydroxide is required to change the colour of the indicator to pink. |
| 7 | Relative density at 20°C | 0.791 to 0.793 at 20°C |
| 8 | Absorbance | |
| | At 230 nm | Maximum 0.15 |
| | At 250 nm | Maximum 0.05 |
| | At 270 nm | Maximum 0.02 |
| | At 290 nm | Maximum 0.01 |
| | Between 230 nm to 290 nm | The absorption curve should be smooth. |
| 9 | Impurity A (By GC) | Maximum 2 ppm v/v |
| 10 | Related substances (By GC) | |
| | a) Any impurity | Not more than 0.1% |
| | b) Total | Not more than 0.3% |
| 11 | Reducing substances | The pink colour should not completely discharged within 5 min. |
| 12 | Residue on evaporation | Maximum 10 ppm |
| 13 | Water | Maximum 0.10% |
| 14 | Residual solvents (By GC) | |
| | a) Benzene | Not more than 2ppm v/v |
| | b) Ethanol | Not more than 5000ppm v/v |
| | c) Acetone | Not more than 5000ppm v/v |