

## Methanol

| <b>Test</b>   | <b>Method</b>                       | <b>Limit</b>                       |
|---|-------------------------------------|------------------------------------|
| Appearance  | IMPCA 003-98                        | Clear & Free of suspended matter   |
| Purity, wt % on dry basis                                     | IMPCA 001-14                        | 99.85 Min                          |
| Acetone, mg/kg  | IMPCA 001-14                        | 30 Max                             |
| Color, Pt-Co  | ASTM D 1209-11                      | 5 Max                              |
| Water, % w/w  | ASTM E 1064-12                      | 0.100 Max                          |
| Distillation Range @ 760 mmHg                                 | ASTM D 1078-11                      | 1.0°C to include 64.6°±0.1°<br>Max |
| Specific Gravity 20°C/20°C                                    | ASTM D 4052-11                      | 0.7910 – 0.7930                    |
| Potassium Permanganate time test at 15°C, minutes             | ASTM D 1363-11                      | 60 Min                             |
| Ethanol, mg/kg  | IMPCA 001-14                        | 50 Max                             |
| Chloride as Cl, mg/kg   | IMPCA 002-98                        | 0.5 Max                            |
| Sulphur, mg/kg  | ASTM D 3961-98 or<br>ASTM D 5453-12 | 0.5 Max                            |
| Hydrocarbons  | ASTM D 1722-09                      | Pass Test                          |
| Carbonisable Substances (Sulfuric Acid Wash Test) Pt-Co scale | ASTM E 346-08                       | 30 Max                             |
| Acidity as acetic acid, mg/kg                                 | ASTM D 1613-12                      | 30 Max                             |
| Iron in Solution  | ASTM E 394-09                       | 0.1 Max                            |
| Non-Volatile Matter, mg/1000 mL                               | ASTM D 1353-13                      | 8 Max                              |