



Certificate of Analysis

...Pure Quality

Product Name: **Methanol**

Application: UHPLC-MS, LC-MS, HPLC, Trace, ACS

| | | | |
|--------------------|----------------|-----------------|--------------------------|
| Product Number: | CP-C9635 | Formula: | CH ₃ OH |
| CAS Number: | 67-56-1 | Formula Weight: | 32.04 g/mol |
| Lot Number: | SHBP4644CP | Density: | 0.7913 g/cm ³ |
| Manufactured Date: | March 30, 2022 | Retest Date: | March 30, 2026 |
| MDL No: | MFCD00004595 | Storage: | RT, Red-Flammable |
| EC Number: | 200-659-6 | DOT/RID/ADR | UN1230 3 / PGII |

| Test | Specification | Result |
|-------------------------------|-----------------------|-----------------------|
| Appearance(Clarify) | Clear | Clear |
| Appearance (Color) | Colorless | Colorless |
| Appearance(Form) | Liquid | Liquid |
| Infraredspectrum | Conforms to Structure | Conforms to Structure |
| UV Absorbance260nm | < 0.007 | 0.004 |
| UV Absorbance230nm | ≤ 0.100 | 0.063 |
| UV Absorbance220nm | ≤ 0.300 | 0.136 |
| UV Absorbance210nm | ≤ 0.500 | 0.305 |
| UV Absorbance205nm | ≤ 1.000 | 0.878 |
| Water(by Karl Fischer) | ≤ 0.02 % | < 0.01 % |
| Residue on Evaporation | ≤ 0.0005 % | < 0.0001% |
| Purity(GC) | ≥ 99.92 % | 99.99% |
| HPLC Absorbance 230 nm | ≤ 0.002 Abs UN | < 0.001 Abs UN |
| HPLC Absorbance 254 nm | ≤ 0.001 Abs UN | < 0.001 Abs UN |
| Free Acid as Formic Acid | ≤ 0.001% | 0.001 % |
| Alkalinity as NH ₃ | ≤ 0.0005% | 0.0001 % |
| Fluorescence 254nm as Quinine | ≤ 1 ppb | < 1 ppb |
| Fluorescence 365nm as Quinine | ≤ 1 ppb | < 1 ppb |
| LCMS SUITABILITY CONFIRMED | Suitable | Suitable |
| Trace Metal Analysis | Complete | Complete |
| Aluminum | ≤ 50 ppb | < 1 ppb |
| Cadmium | ≤ 50 ppb | < 1 ppb |
| Calcium | ≤ 50 ppb | < 1 ppb |
| Chromium | ≤ 15 ppb | < 1 ppb |
| Cobalt | ≤ 15 ppb | < 1 ppb |
| Copper | ≤ 10 ppb | < 1 ppb |
| Iron | ≤ 50 ppb | < 1 ppb |
| Magnesium | ≤ 50 ppb | < 1 ppb |
| Manganese | ≤ 10 ppb | < 1 ppb |
| Potassium | ≤ 50 ppb | < 1 ppb |
| Silver | ≤ 50 ppb | < 1 ppb |
| Sodium | ≤ 50 ppb | 2 ppb |
| Tin | ≤ 50 ppb | < 1 ppb |
| Zinc | ≤ 50 ppb | < 1 ppb |

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It is certified the above copy is a true copy of the actual lot analysis from the manufacturer,

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