

### Certificate of Analysis

**Product: Methanol**  
**Item Number: MAA**  
**Grade: ACS/USP/NF**  
**Lot Number: K20A17K10**  
**Manufacture Date: 01/17/2020**  
**Expiration Date: 01/16/2025**  
**Country of Origin: United States**

| Tested Property                        | Specification   | Analysis      |
|--|---|---------------|
| Assay (corrected for water)            | 99.8% min   | 99.95%        |
| Assay                                  | NLT 99.5%   | 99.97%        |
| Appearance                             | To pass test  | Pass          |
| Identification A (infrared Absorption) | To pass test  | Pass          |
| Identification B (GC Analysis)         | To pass test  | Pass          |
| Acidity                                | NMT 0.45mL 0.020N NaOH required                                       | 0.25mL        |
| Alkalinity (as NH <sub>4</sub> )       | NMT 0.20mL 0.020N H <sub>2</sub> SO <sub>4</sub> required (3 ppm max) | 0.15mL        |
| Titration Acid                         | 0.0003 meq/g max.   | 0.0002 meq/g  |
| Titration Base                         | 0.0002 meq/g max.   | <0.0001 meq/g |
| Readily Carbonizable Substances        | To pass test  | Pass          |
| Carbonyl Compound                      | Acetone, 0.001% max   | None detected |
| Carbonyl Compound                      | Formaldehyde, 0.001% max  | < 0.001%      |
| Carbonyl Compound                      | Acetaldehyde, 0.001% max  | < 0.001%      |
| Acetone and Aldehydes (as Acetone)     | NMT 0.003%  | <0.003%       |
| Readily Oxidizable Substances          | To pass test  | Pass          |
| Non-Volatile Residue                   | NMT 2MG (0.001% w/w)  | 0 mg          |
| Residue on Evaporation                 | 0.001% max  | 0.000%        |
| Substances Reducing Permanganate       | To pass test  | Pass          |
| Substances darkened by Sulfuric Acid   | To pass test  | Pass          |
| Solubility in Water                    | To pass test  | Pass          |

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|              |          |       |
|--------------|----------|-------|
| Color (APHA) | 10 max   | < 1   |
| Water        | NMT 0.1% | 0.02% |

### Methanol

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