

# **Certificate of Analysis**

800 Kaderly Dr Columbus, OH 43228

www.gfschemicals.com

Tel: 800.858.9682 · 740.881.5501 Fax: 740.881.5989

**Product Name:** METHYL ETHYL KETONE, HPLC

Item #: 18092 Lot #: 21290156





ISO 9001:2015 d by EAGLE Registrations Inc

Cert. #: 3336.01

#### **Certified Values:**

| Specifications                          | Status | Results   |
|---|--------|-----------|
| Assay 99.50 % - Min                     | Pass   | 99.99     |
| Residue after evaporation 0.00030 % Max | Pass   | < 0.00003 |
| Color (APHA) 10 Max                     | Pass   | < 5       |
| Titrable acid 0.0005 meq/g Max          | Pass   | 0.0002    |
| UV cut-off 329 nm                       | Pass   | 329       |
| UV at 335 nm (AU) 0.4 AU Max            | Pass   | 0.2       |
| UV at 340 nm (AU) 0.10 AU Max           | Pass   | 0.05      |
| UV at 350 nm 0.010 AU Max               | Pass   | 0.003     |
| UV at 400 nm (AU) 0.010 AU Max          | Pass   | < 0.001   |
| Water 0.050 % Max                       | Pass   | 0.008     |

Certificate COA-077964 amended as a result of retest analysis on December 15, 2021 Comments

COA-080354 June 12, 2022 CoA #: Best by: **Certificate Created By:** Catherine Myron February 18, 2022 **Print Date:** 

December 15, 2021 **CoA Creation Date:** 

Melissa Murphy - Corporate Quality Assurance and Regulatory Compliance Manager Certified by:

melisoa murphy

Not for direct use in food, cosmetics, finished pharmaceuticals or drug products. Supplier is not responsible for compliance with FDA Current Good Manufacturing Practices (cGMP), including without limitation for those finished drug products in 21 CFR Parts 210 and 211. Consult warranty limitations at www.gfschemicals.com

For resale by GFS authorized distributors only.

Page 1 of 2 21290156



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### **Traceability:**

This material was processed under a quality management system that is registered to ISO 9001:2015. The equipment used in the testing of material is NIST traceable. In cases where NIST traceability is not possible, equipment manufacturer recommendations and/or industry best practices are followed.

The following tests are performed under an A2LA accredited ISO/IEC 17025 management system:

- UV/VIS Spectrophotometer testing is performed according to ASTM method E169-16
- Turbidity according to ASTM methods D6855-17 and ASTM D7315-17
- Conductivity according to ASTM method D1125-14
- pH according to ASTM method D1293-18
- Karl Fischer titration according to ASTM methods DE203-16 and E1064-16

Samples for testing are obtained using GFS procedure GFSA-PROD-PPG-0022

Testing is performed in a laboratory temperature of 22 ℃ +/- 2 ℃ and/or a solution temperature of 25 ℃ +/- 0.2 ℃.

Karl Fischer testing is performed at a laboratory temperature of 25°C +/- 5°C and a relative humidity ≤ 60%.

#### Measurement Uncertainty:

The reported measurement uncertainty is an expanded measurement uncertainty according to the ASTM method E2554-18, calculated using 2 as the coverage factor (which gives a confidence level of approximately 95%).

- Example for a reported conductivity value of 2124 uS/cm: 2124uS/cm ± 0.65%, k=2
- Example for a reported pH value of 8.32:  $8.32 \pm 0.01$ , k=2
- Karl Fischer for values between 0.1 to 10 mg/g
  o Example for a reported Karl Fischer value of 5.3 mg/g: 5.3mg/g ± 3.76%, k=2

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Page 2 of 2 21290156