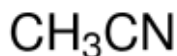


Certificate of Analysis

Product Name:

Acetonitrile - suitable for HPLC, gradient grade, ≥99.9%



Product Number: 34851
Batch Number: SHBT0033
Brand: SIGALD
CAS Number: 75-05-8
MDL Number: MFCD00001878
Formula: C₂H₃N
Formula Weight: 41.05 g/mol
Quality Release Date: 10 JUL 2025
Recommended Retest Date: JUL 2028

| Test | Specification | Result |
|----------------------------|---------------|------------|
| Appearance (Color) | Colorless | Colorless |
| Appearance (Form) | Liquid | Liquid |
| UV Absorbance 400nm | ≤ 0.0044 | < 0.0001 |
| UV Absorbance 250nm | ≤ 0.0044 | 0.0009 |
| UV Absorbance 235nm | ≤ 0.0044 | 0.0029 |
| UV Absorbance 230nm | ≤ 0.0044 | 0.0041 |
| UV Absorbance 200nm | ≤ 0.032 | 0.018 |
| UV Absorbance 195nm | ≤ 0.12 | 0.06 |
| Fluorescence 254nm | ≤ 1.0 ppb | < 0.1 ppb |
| As Quinine | | |
| Fluorescence 365nm | ≤ 0.5 ppb | < 0.1 ppb |
| As Quinine | | |
| HPLC Absorbance 210 nm | ≤ 3 mAU | 1 mAU |
| HPLC Absorbance 254 nm | ≤ 0.5 mAU | < 0.1 mAU |
| Baseline Drift 210nm | ≤ 15 mAU | 5 mAU |
| Purity (GC) | ≥ 99.90 % | 99.96 % |
| Water (by Karl Fischer) | ≤ 0.02 % | < 0.01 % |
| Residue on Evaporation | ≤ 0.0005 % | < 0.0001 % |
| Alkalinity | ≤ 0.0002 % | < 0.0001 % |
| As NH ₃ | | |
| Free Acid (as Acetic Acid) | ≤ 0.001 % | < 0.001 % |

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.



Certificate of Analysis

Product Number: 34851
Batch Number: SHBT0033

| Test | Specification | Result |
|--|---------------|--------|
| Recommended Retest Period 36 Months | ----- | ----- |



Larry Coers, Director
Quality Control
Sheboygan Falls, WI US

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.

