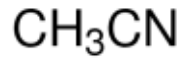


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Product Specification

Product Name:
Acetonitrile - for HPLC, gradient grade, $\geq 99.9\%$

Product Number: 439134
CAS Number: 75-05-8
MDL: MFCD00001878
Formula: C₂H₃N
Formula Weight: 41.05 g/mol



| TEST | Specification |
|----------------------------|-----------------------|
| Appearance (Color) | Colorless |
| Appearance (Form) | Liquid |
| Infrared spectrum | Conforms to Structure |
| UV Absorbance 230nm | ≤ 0.0044 |
| UV Absorbance 200nm | ≤ 0.032 |
| UV Absorbance 195nm | ≤ 0.12 |
| Purity (GC) | $\geq 99.90\%$ |
| Water (by Karl Fischer) | $\leq 0.01\%$ |
| Residue on Evaporation | $\leq 0.0002\%$ |
| Fluorescence 365nm | ≤ 0.5 ppb |
| As Quinine | |
| Fluorescence 254nm | ≤ 1.0 ppb |
| As Quinine | |
| Free Acid (as Acetic Acid) | $\leq 0.001\%$ |
| Alkalinity | $\leq 0.0002\%$ |
| As NH ₃ | |
| HPLC Absorbance 210 nm | ≤ 3 mAU |
| HPLC Absorbance 254 nm | ≤ 0.5 mAU |
| Baseline Drift 210nm | ≤ 15 mAU |
| Expiration Date Period | ----- |
| 3 years | |

Specification: PRD.5.ZQ5.10000005027

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.