

Acetonitrile
BAKER ANALYZED® HPLC Ultra Gradient Solvent
For use in Liquid Chromatography (HPLC & UHPLC) &
Spectrophotometry



Material No.: 9017-33
Batch No.: 23J1162024
Manufactured Date: 2023-03-28
Retest Date: 2028-03-26
Revision No.: 0

Certificate of Analysis

| Test | Specification | Result |
|--|---------------|-------------|
| Ultraviolet Absorbance (1.00-cm cell vs. water) – 400–254 nm | ≤ 0.005 | 0.004 |
| Ultraviolet Absorbance (1.00-cm cell vs. water) – 220 nm | ≤ 0.01 | 0.01 |
| Ultraviolet Absorbance (1.00-cm cell vs. water) – 200 nm | ≤ 0.05 | 0.02 |
| Ultraviolet Absorbance (1.00-cm cell vs. water) – UV Cut-off, nm | ≤ 190 | 188 |
| Gradient Elution Test (a.u.) – 254 nm | ≤ 0.0005 | < 0.0001 |
| Gradient Elution Test (a.u.) – 210 nm | ≤ 0.002 | < 0.001 |
| Density (g/mL) at 25°C | 0.775 – 0.780 | 0.777 |
| Fluorescence Trace Impurities, measured as Quinine Base – at 450 nm Emission | ≤ 0.3 ppb | 0.1 ppb |
| Fluorescence Trace Impurities, measured as Quinine Base – at Emission Maximum for Impurities | ≤ 1.0 ppb | 0.6 ppb |
| Assay (CH ₃ CN) (by GC) | ≥ 99.9 % | 100.0 % |
| Appearance | Passes Test | Passes Test |
| Color (APHA) | ≤ 10 | 5 |
| Fluorescence Trace Impurities, measured as Quinine Base – Fluorescence detection (PAH) | ≤ 0.5 ppb | 0.5 ppb |
| Residue after Evaporation | ≤ 1.0 ppm | 0.1 ppm |
| Titration Acid (µeq/g) | ≤ 0.8 | 0.3 |
| Titration Base (µeq/g) | ≤ 0.6 | < 0.1 |
| Water (by KF, coulometric) | ≤ 100 ppm | < 10 ppm |
| Carbonyl Compounds (as Acetone) | ≤ 25.0 ppb | 20.0 ppb |

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700

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For Laboratory, Research, or Manufacturing Use
Filtered through a 0.2 micron filter.

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Ethier
Vice President Global Quality

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