

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



Material No.: 9017-33  
Batch No.: 0000251831  
Manufactured Date: 2020/01/07  
Retest Date: 2025/01/05  
Revision No: 1

## Certificate of Analysis

| Test   | Specification | Result   |
|--|---------------|----------|
| Ultraviolet Absorbance (1.00-cm cell vs. water) – 400–254 nm                                 | <= 0.005      | < 0.002  |
| 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      |
| Fluorescence Trace Impurities, measured as Quinine Base – at Emission Maximum for Impurities | <= 1.0 ppb    | 0.5      |
| Assay (CH <sub>3</sub> CN) (by GC)   | >= 99.9 %     | 100.0    |
| Appearance   | Passes Test   | PT       |
| Color (APHA)   | <= 10         | 10       |
| Fluorescence Trace Impurities, measured as Quinine Base – Fluorescence detection (PAH)       | <= 0.5 ppb    | 0.5      |
| Residue after Evaporation  | <= 1.0 ppm    | 0.2      |
| Titration Acid (µeq/g)   | <= 0.8        | 0.2      |
| Titration Base (µeq/g)   | <= 0.6        | < 0.1    |
| Water (by KF, coulometric)   | <= 100 ppm    | 4        |
| Carbonyl Compounds (as Acetone)  | <= 25 ppb     | 20       |

For Laboratory, Research or Manufacturing Use

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

Material No.: 9017-33  
Batch No.: 0000251831

Filtered through a 0.2 micron filter.

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



Jamie Ethier  
Vice President Global Quality

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