

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



Material No.: 9017-33  
Batch No.: 23J0962002  
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 <sub>3</sub> 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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