

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



Material No.: 9017-33
Batch No.: 21K2862003
Manufactured Date: 2021-11-04
Retest Date: 2026-11-03
Revision No.: 0

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 ppb
Fluorescence Trace Impurities, measured as Quinine Base - at Emission Maximum for Impurities	≤ 1.0 ppb	0.4 ppb
Assay (CH ₃ CN) (by GC)	≥ 99.9 %	100.0 %
Appearance	Passes Test	Passes Test
Color (APHA)	≤ 10	10
Fluorescence Trace Impurities, measured as Quinine Base - Fluorescence detection (PAH)	≤ 0.5 ppb	0.4 ppb
Residue after Evaporation	≤ 1.0 ppm	0.1 ppm
Titration Acid (μeq/g)	≤ 0.8	0.1
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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