

Certificate of Analysis

Nov. 20, 2018

Name: Acetonitrile - Gradient grade

Lot No.: 1810232

Retest date: Oct, 2021

The following are the actual analytical results obtained

Conforms to the requirements of ACS for liquid chromatography suitability

<u>Test Item</u>	<u>Limits</u>	<u>Actual</u>
Appearance	Clear colorless liquid	Clear colorless liquid
Color	Max 10 APHA	6 APHA
Assay by GC	Min 99.9%	99.98%
Density(20°C)	0.780 – 0.783 g/ml	0.782 g/ml
Refractive index n_D^{20}	1.343 – 1.346	1.345
Water content	Max 0.02%	0.01%
Non-volatile matter	Max 0.001%	PASS
Acidity (As CH ₃ COOH)	Max 0.001 mEq./g	0.0002 mEq./g.
Ammonia (As NH ₄)	Max 0.0003 mEq./g	0.0001 mEq./g.
Gradient elution	PASS	PASS
Reducing substances of KMnO ₄	PASS	PASS
Absorbance		
190nm	Max 1 AU	0.3431 AU
200nm	Max 0.05 AU	0.0270 AU
210nm	Max 0.03 AU	0.0184 AU
220nm	Max 0.02 AU	0.0073 AU
230nm	Max 0.01 AU	0.0029 AU
240nm	Max 0.005 AU	0.0040 AU
Fluorescence (as quinine)		
254nm	Max 1 ppb	< 1 ppb
365nm	Max 1 ppb	< 1 ppb

Filtered by 0.2um filter

Suitable for HPLC/UPLC/UHPLC instruments



Quality Control Dept