



Certificate of Analysis

...Pure Quality

Product Name: **Methanol**

Application: UHPLC-MS, LC-MS, HPLC, Trace, ACS

Product Number:	CP-C9635	Formula:	CH ₃ OH
CAS Number:	67-56-1	Formula:	32.04 g/mol
Lot Number:	2019BL4966	Weight: Density:	0.7913 g/cm ³
Manufactured Date:	Sept 5, 2019	Retest Date:	Sept 4, 2021
MDL No:	MFCD00004595	Storage:	RT, Red-Flammable
EC Number:	200-659-6	DOT/RID/ADR	UN1230 3 / PGII

Test	Specification	Result
Appearance(Clarify)	Clear	Clear
Appearance (Color)	Colorless	Colorless
Appearance(Form)	Liquid	Liquid
Infraredspectrum	Conforms to Structure	Conforms to Structure
UV Absorbance260nm	< 0.007	0.001
UV Absorbance230nm	≤ 0.100	0.050
UV Absorbance220nm	≤ 0.300	0.109
UV Absorbance210nm	≤ 0.500	0.263
UV Absorbance205nm	≤ 1.000	0.574
Water (by Karl Fischer)	≤ 0.02 %	< 0.01 %
Residue on Evaporation	≤ 0.0005 %	< 0.0001%
Purity (GC)	≥ 99.92 %	100.00%
HPLC Absorbance 230 nm	≤ 0.002 AbsUN	< 0.001 Abs UN
HPLC Absorbance 254 nm	≤ 0.001 AbsUN	< 0.001 Abs UN
Free Acid as Formic Acid	≤ 0.001 %	0.001 %
Alkalinity as NH ₃	≤ 0.0005%	0.0001 %
Fluorescence 254nm as Quinine	≤1 ppb	< 1 ppb
Fluorescence 365nm as Quinine	≤ 1 ppb	< 1 ppb
LCMS SUITABILITY CONFIRMED		
Trace Metal Analysis	Complete	Complete
Aluminum	≤ 50 ppb	< 1 ppb
Cadmium	≤ 50 ppb	< 1 ppb
Calcium	≤ 50 ppb	< 1 ppb
Chromium	≤ 15 ppb	< 1 ppb
Cobalt	≤ 15 ppb	< 1 ppb
Copper	≤ 10 ppb	< 1 ppb
Iron	≤ 50 ppb	< 1 ppb
Magnesium	≤ 50 ppb	< 1 ppb
Manganese	≤ 10 ppb	< 1 ppb
Potassium	≤ 50 ppb	1 ppb
Silver	≤ 50 ppb	< 1 ppb
Sodium	≤ 50 ppb	2 ppb
Tin	≤ 50 ppb	< 1 ppb
Zinc	≤ 50 ppb	< 1 ppb

Important: The information presented herein, while not guaranteed, was prepared by technical personnel and is true and accurate to the best of our knowledge. NO WARRANTY OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE, OR WARRANTY OR GUARANTY OF ANY OTHER KIND, EXPRESS OR IMPLIED, IS MADE REGARDING PERFORMANCE, SAFETY, SUITABILITY, STABILITY OR OTHERWISE. This information is not intended to be all inclusive as to the manner and conditions of use, handling, storage, disposal, and other factors that may involve other or additional legal, environmental, safety or performance considerations, and CHEMPURE BRAND CHEMICALS assumes no liability whatsoever for the use of or reliance upon this information. Our technical personnel will be happy to respond to questions, safe handling and use of the product remains the responsibility of the customer. No suggestions for use are intended as, and nothing herein shall be construed as, are recommendation to infringe any existing patents or to violate any Federal, State, Local or foreign laws.

It is certified the above copy is a true copy of the actual lot analysis from the manufacturer,

V. Mekesa, QC Director

SUPPORT@CHEMPUREBRAND.COM - WWW.CHEMPUREBRAND.COM