

January 13, 2021

Certificate of Analysis ... Pure Quality

Product Name: Methanol

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

Product Number: CP-C9635 Formula: CH_3OH CAS Number: 67-56-1 Formula Weight: 32.04 g/mol Lot Number: SHBN0371CP Density: 0.7913 g/cm³ Manufactured Date: Jan 13, 2021 Retest Date: Jan. 12, 2024

MDL No: MFCD00004595 Storage: RT, Red-Flammable EC Number: 200-659-6 DOT/RID/ADR UN1230 3 / PGII

Test Specification Result

Appearance (Clarity)	Clear	Clear
Appearance (Color)	Colorless	Colorless
Appearance (Form)	Liquid	Liquid
Infraredspectrum	Conforms to Structure	Conforms to Structure
UV Absorbance 260 nm	< 0.007	0.003
UV Absorbance 230 nm	≤ 0.100	0.061
UV Absorbance 220 nm	≤ 0.300	0.134
UV Absorbance210nm	≤ 0.500	0.319
UV Absorbance 205 nm	≤ 1.000	0.683
Water(by Karl Fischer)	≤ 0.02 %	< 0.01 %
Residue on Evaporation	≤ 0.0005 %	< 0.0001%
Purity(GC)	≥ 99.92 %	99.99%
HPLC Absorbance 230 nm	≤ 0.002 AbsUN	< 0.001 Abs UN
HPLC Absorbance 254 nm	≤ 0.001Abs UN	< 0.001 Abs UN
Free Acid as Formic Acid	≤ 0.001%	0.001 %
Alkalinity as NH3	≤ 0.0005%	0.0001 %
Fluorescence 254nm as Quinine	≤1 ppb	< 1 ppb
Fluorescence 365nm as Quinine	≤ 1 ppb	< 1 ppb
LCMS SUITABILITY CONFIRMED	Suitable	Suitable
Trace Metal Analysis	Complete	Complete
Aluminum	≤ 50 ppb	< 1 ppb
Cadmium	≤ 50 ppb	< 1 ppb
Calcium	≤ 50 ppb	3 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
Pot assium	≤ 50 ppb	2 ppb
Silver	≤ 50 ppb	< 1 ppb
Sodium	≤ 50 ppb	6 ppb
Tin	≤ 50 ppb	< 1 ppb
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≤ 50 ppb

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

Zinc

V. Mekesa, QC Director