

Material No: 8066.2500
Batch No: 2332705861
Manufactured Date: 2023/11/23
Retest Date: 2028/11/23

Certificate of Analysis

Test	Specification	Result
Assay (by GC)	$\geq 99 \%$	100.0
Boiling Range	$\leq 2.0^{\circ}\text{C}$	passes test
Color (APHA)	≤ 10	< 10
Density (g/ml) at 25°C	0.800–0.804	0.800
Ethanol (C ₂ H ₅ OH) (by GC)	$\leq 0.05 \%$	< 0.05
Free Acid (as C ₂ H ₅ COOH)	$\leq 0.001 \%$	< 0.001
Methanol (by GC) (CH ₃ OH)	$\leq 0.05 \%$	< 0.05
Recorded Boiling Point	97.2°C	passes test
Residue after Evaporation	$\leq 0.005 \%$	< 0.005
Substances Darkened by H ₂ SO ₄	passes test	passes test
Substances Reducing KMnO ₄ (as O)	$\leq 0.0003 \%$	< 0.0003
Water (H ₂ O)	$\leq 0.1 \%$	0.02
2-Propanol (C ₃ H ₇ OH) (by GC)	$\leq 0.05 \%$	< 0.05
Trace Impurities (in ppm)		
Aluminium (Al)	≤ 0.5	< 0.002
Barium (Ba)	≤ 0.1	< 0.002
Boron (B)	≤ 0.02	< 0.005
Cadmium (Cd)	≤ 0.05	< 0.002
Calcium (Ca)	≤ 0.5	0.017
Chromium (Cr)	≤ 0.02	< 0.002
Cobalt (Co)	≤ 0.02	< 0.002
Copper (Cu)	≤ 0.02	< 0.002
Iron (Fe)	≤ 0.1	0.004
Lead (Pb)	≤ 0.1	< 0.003
Magnesium (Mg)	≤ 0.1	0.003

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Test	Specification	Result
Manganese (Mn)	≤ 0.02	0.002
Nickel (Ni)	≤ 0.02	0.002
Tin (Sn)	≤ 0.1	< 0.010
Zinc (Zn)	≤ 0.1	0.002

For Laboratory, Research or Manufacturing use.

Country of Origin: UNITED STATES
Packaging Site: Gliwice Mfg & DC



Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis, please contact Customer Service at avantor.emea@avantorinc.com
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