

2-Propanol
CMOS
(iso-propyl alcohol)



Material No.: 9059-08

Batch No.: 25A3161010

Manufactured Date: 2025-01-28

Retest Date: 2030-01-27

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ($\text{CH}_3\text{CHOHCH}_3$)	$\geq 99.5 \%$	100.0 %
Color (APHA)	≤ 10	<5
Residue after Evaporation	$\leq 4 \text{ ppm}$	<0 ppm
Solubility in H_2O	Passes Test	Passes Test
Water (H_2O)(by Karl Fischer titrn)	$\leq 0.05 \%$	0.01 %
Acidity ($\mu\text{eq/g}$)	≤ 0.2	<0.1
Alkalinity ($\mu\text{eq/g}$)	≤ 0.1	<0.1
Chloride (Cl)	$\leq 0.2 \text{ ppm}$	<0.2 ppm
Phosphate (PO_4)	$\leq 0.3 \text{ ppm}$	<0.1 ppm
Trace Impurities – Aluminum (Al)	$\leq 50.0 \text{ ppb}$	<5.0 ppb
Arsenic & Antimony (as As)	$\leq 10.0 \text{ ppb}$	<10.0 ppb
Trace Impurities – Barium (Ba)	$\leq 20.0 \text{ ppb}$	<1.0 ppb
Trace Impurities – Beryllium (Be)	$\leq 100.0 \text{ ppb}$	<1.0 ppb
Trace Impurities – Bismuth (Bi)	$\leq 100.0 \text{ ppb}$	<10.0 ppb
Trace Impurities – Boron (B)	$\leq 10.0 \text{ ppb}$	<5.0 ppb
Trace Impurities – Cadmium (Cd)	$\leq 20.0 \text{ ppb}$	<1.0 ppb
Trace Impurities – Calcium (Ca)	$\leq 50.0 \text{ ppb}$	6.5 ppb
Trace Impurities – Chromium (Cr)	$\leq 20.0 \text{ ppb}$	<1.0 ppb
Trace Impurities – Cobalt (Co)	$\leq 20 \text{ ppb}$	<1 ppb
Trace Impurities – Copper (Cu)	$\leq 10.0 \text{ ppb}$	<1.0 ppb
Trace Impurities – Gallium (Ga)	$\leq 50 \text{ ppb}$	<1 ppb
Trace Impurities – Germanium (Ge)	$\leq 50.0 \text{ ppb}$	<10.0 ppb
Trace Impurities – Gold (Au)	$\leq 20 \text{ ppb}$	<5 ppb
Heavy Metals (as Pb)	$\leq 200.0 \text{ ppb}$	<50.0 ppb
Trace Impurities – Iron (Fe)	$\leq 50.0 \text{ ppb}$	<1.0 ppb
Trace Impurities – Lead (Pb)	$\leq 20.0 \text{ ppb}$	<10.0 ppb
Trace Impurities – Lithium (Li)	$\leq 50.0 \text{ ppb}$	<1.0 ppb
Trace Impurities – Magnesium (Mg)	$\leq 20 \text{ ppb}$	1 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

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Test	Specification	Result
Trace Impurities – Manganese (Mn)	<= 15.0 ppb	<1.0 ppb
Trace Impurities – Molybdenum (Mo)	<= 100.0 ppb	<5.0 ppb
Trace Impurities – Nickel (Ni)	<= 10.0 ppb	<5.0 ppb
Trace Impurities – Niobium (Nb)	<= 100.0 ppb	<1.0 ppb
Trace Impurities – Potassium (K)	<= 100 ppb	<10 ppb
Trace Impurities – Silicon (Si)	<= 50 ppb	<10 ppb
Trace Impurities – Silver (Ag)	<= 20.0 ppb	<1.0 ppb
Trace Impurities – Sodium (Na)	<= 100.0 ppb	<5.0 ppb
Trace Impurities – Strontium (Sr)	<= 20.0 ppb	<1.0 ppb
Trace Impurities – Tantalum (Ta)	<= 100.0 ppb	<5.0 ppb
Trace Impurities – Thallium (Tl)	<= 10.0 ppb	<5.0 ppb
Trace Impurities – Tin (Sn)	<= 100 ppb	<10 ppb
Trace Impurities – Titanium (Ti)	<= 20 ppb	<1 ppb
Trace Impurities – Vanadium (V)	<= 100.0 ppb	<1.0 ppb
Trace Impurities – Zinc (Zn)	<= 50 ppb	6 ppb
Trace Impurities – Zirconium (Zr)	<= 100.0 ppb	<1.0 ppb
Particle Count at point of fill – 0.5 µmand greater (Rion KS42AF)	<= 150 par/ml	3 par/ml
Particle Count at point of fill – 1.0 µmand greater (Rion KS42AF)	<= 25 par/ml	1 par/ml

For Microelectronic Use

Country of Origin: United States
Packaging Site: Paris Mfg Ctr & DC


Michelle Bales
Sr. Manager, Quality Assurance

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