

Xylenes
CMOS
(contains ethylbenzene)



Material No.: 9493-03
Batch No.: 23L1561005
Manufactured Date: 2023-09-18
Retest Date: 2028-09-16
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Color (APHA)	≤ 10	< 5
Residue after Evaporation	≤ 5 ppm	< 1 ppm
Acidity (µeq/g)	≤ 0.3	< 0.3
Water (H ₂ O)	≤ 0.02 %	0.02 %
Chloride (Cl)	≤ 3 ppm	< 3 ppm
Phosphate (PO ₄)	≤ 0.5 ppm	< 0.5 ppm
Trace Impurities – Aluminum (Al)	≤ 50.0 ppb	< 5.0 ppb
Arsenic and Antimony (as As)	≤ 10.0 ppb	< 10.0 ppb
Trace Impurities – Barium (Ba)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Boron (B)	≤ 20.0 ppb	< 5.0 ppb
Trace Impurities – Cadmium (Cd)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Calcium (Ca)	≤ 50.0 ppb	1.7 ppb
Trace Impurities – Chromium (Cr)	≤ 50 ppb	< 1 ppb
Trace Impurities – Cobalt (Co)	≤ 20 ppb	< 1 ppb
Trace Impurities – Copper (Cu)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Gallium (Ga)	≤ 50 ppb	< 1 ppb
Trace Impurities – Germanium (Ge)	≤ 100.0 ppb	< 10.0 ppb
Trace Impurities – Gold (Au)	≤ 50 ppb	< 5 ppb
Heavy Metals (as Pb)	≤ 1000.0 ppb	< 100.0 ppb
Trace Impurities – Iron (Fe)	≤ 50.0 ppb	< 1.0 ppb
Trace Impurities – Lead (Pb)	≤ 100 ppb	< 10 ppb
Trace Impurities – Lithium (Li)	≤ 50.0 ppb	< 1.0 ppb
Trace Impurities – Magnesium (Mg)	≤ 20 ppb	< 1 ppb
Trace Impurities – Manganese (Mn)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Nickel (Ni)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Potassium (K)	≤ 100 ppb	< 10 ppb
Trace Impurities – Silicon (Si)	≤ 200.0 ppb	< 10.0 ppb
Trace Impurities – Silver (Ag)	≤ 50 ppb	< 1 ppb

>>> Continued on page 2 >>>

Xylenes
CMOS
(contains ethylbenzene)



Material No.: 9493-03
Batch No.: 23L1561005

Test	Specification	Result
Trace Impurities - Sodium (Na)	≤ 100.0 ppb	< 5.0 ppb
Trace Impurities - Strontium (Sr)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities - Tin (Sn)	≤ 100 ppb	< 10 ppb
Trace Impurities - Zinc (Zn)	≤ 20.0 ppb	7.7 ppb
Particle Count - 1.0 μm and greater	≤ 10 par/ml	< 1 par/ml
Total of p-, m-, o-xylene, toluene and ethylbenzene (by GC)	≥ 99.5 %	99.8 %

For Microelectronic Use

Country of Origin: USA
Packaging Site: Paris Mfg Ctr & DC

Michelle Bales
Sr. Manager, Quality Assurance

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC

100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700