



Material No.: 9012-03  
Batch No.: 0000210210  
Manufactured Date: 2018/09/17  
Retest Date: 2023/09/16  
Revision No: 1

## Certificate of Analysis

Test	Specification	Result
Appearance	Passes Test	PT
Assay (GC)	$\geq 99.9\%$	100.0
Color (APHA)	$\leq 10$	$< 5$
Water (H <sub>2</sub> O)	$\leq 0.02\%$	0.01
Gradient Elution Test (a.u.) – 254 nm	$\leq 0.005$	0.001
Residue after Evaporation	$\leq 3$ ppm	$< 2$
Titration Acid ( $\mu\text{eq/g}$ )	$\leq 8.0$	8.0
Titration Base ( $\mu\text{eq/g}$ )	$\leq 0.6$	0.6
Ultraviolet Absorbance (1.00 cm) – 200 nm	$\leq 0.1$	$< 0.1$
Ultraviolet Absorbance (1.00 cm) – 210 nm	$\leq 0.05$	0.01
Ultraviolet Absorbance (1.00 cm) – 220 nm	$\leq 0.03$	0.01
Ultraviolet Absorbance (1.00 cm) – 254 nm	$\leq 0.01$	$< 0.01$
Ultraviolet Absorbance (1.00 cm) – 280 nm	$\leq 0.01$	$< 0.01$
Ultraviolet Absorbance (1.00 cm) – 350 nm	$\leq 0.01$	$< 0.01$
Ultraviolet Absorbance (1.00 cm) – 400 nm	$\leq 0.01$	$< 0.01$
Ultraviolet Absorbance (1.00 cm) – UV Cut-off, nm	$\leq 190$	186

For Laboratory, Research or Manufacturing Use  
Filtered through a 0.2 micron filter.

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



Phillipsburg, NJ 9001:2015, FSSC22000  
Paris, KY 9001:2008  
Mexico City, Mexico 9001:2008  
Gliwice, Poland 9001:2015, 13485:2012  
Selangor, Malaysia 9001:2008  
Dehradun, India, 9001:2008, 14001:2004, 13485:2003  
Mumbai, India, 9001:2015, 17025:2005  
Panoli, India 9001:2015

Jamie Ethier  
Vice President Global Quality

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