

1-Butanol
PHOTREX® Reagent
For Spectrophotometry
(butyl alcohol)



Material No.: 9189-01
Batch No.: 0000013235
Manufactured Date: 2012/08/16
Retest Date: 2013/08/06

Certificate of Analysis

Test	Specification	Result
ACS – Assay ($\text{CH}_3\text{CH}_2\text{CH}_2\text{CH}_2\text{OH}$) (by GC, corrected for water)	$\geq 99.4 \%$	99.9
ACS – Color (APHA)	≤ 10	5
ACS – Residue after Evaporation	$\leq 0.0005 \%$	< 0.0001
ACS – Titrable Acid ($\mu\text{eq/g}$)	≤ 0.8	0.1
ACS – Butyl Ether ($\text{C}_8\text{H}_{18}\text{O}$)(by GC)	$\leq 0.2 \%$	< 0.1
Carbonyl Compounds – Butyraldehyde	$\leq 0.01 \%$	< 0.01
Water (by KF, coulometric)	$\leq 0.05 \%$	0.02
Ultraviolet Absorbance (1.00-cm cell vs. water) – 400–300 nm	≤ 0.01	< 0.01
Ultraviolet Absorbance (1.00-cm cell vs. water) – 280 nm	≤ 0.02	< 0.01
Ultraviolet Absorbance (1.00-cm cell vs. water) – 260 nm	≤ 0.04	< 0.01
Ultraviolet Absorbance (1.00-cm cell vs. water) – 240 nm	≤ 0.10	0.02
Ultraviolet Absorbance (1.00-cm cell vs. water) – 220 nm	≤ 0.50	0.21
Ultraviolet Absorbance (1.00-cm cell vs. water) – 215 nm	≤ 1.00	0.37

For Laboratory, Research, or Manufacturing Use

Product Information (not specifications):

Boiling Point (typical)..... 117.7 °C.

Windows of Infrared Transmittance (0.1-mm path, 50–100% T), μm :

2.0 – 2.8 ; 4.3 – 6.0

Material No.: 9189-01
Batch No.: 0000013235

Country of Origin: US



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

A handwritten signature in white ink on a blue background, reading "Richard M Siberski".

Richard M Siberski
Global Director of Quality Assurance

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.573.2600
Avantor™ Performance Materials Inc.

3477 Corporate Parkway, Suite #200, Center Valley, PA 18034, U.S.A. Phone: 610.573.2600 . Fax: 610.573.2610