

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



Material No.: 9189-01
Batch No.: 0000192032
Manufactured Date: 2018/02/07
Expiration Date: 2019/02/06
Revision No: 1

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	$\leq 0.0005 \%$	< 0.0005
ACS – Titrable Acid ($\mu\text{eq/g}$)	≤ 0.8	< 0.8
ACS – Butyl Ether ($\text{C}_8\text{H}_{18}\text{O}$) (by GC)	$\leq 0.2 \%$	< 0.2
Carbonyl Compounds – Butyraldehyde	$\leq 0.01 \%$	< 0.01
Water (by KF, coulometric)	$\leq 0.05 \%$	< 0.05
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	< 0.02
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	0.03
Ultraviolet Absorbance (1.00-cm cell vs. water) – 220 nm	≤ 0.50	0.11
Ultraviolet Absorbance (1.00-cm cell vs. water) – 215 nm	≤ 1.00	0.18

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

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

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

Country of Origin: US



Phillipsburg, NJ 9001:2008, 14001:2004, FSSC 22000
Paris, KY 9001:2008
Mexico City, Mexico 9001:2008
Deventer, The Netherlands 9001:2008, 14001:2004, 13485:2003
Gliwice, Poland 9001:2008, 13485:2012
Selangor, Malaysia 9001:2008
Dehradun, India, 9001:2008, 14001:2004, 13485:2003
Mumbai, India, 9001:2008
Panoli, India 9001:2008



Jamie Ethier
Vice President Global Quality

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