

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



Material No.: 9189-01  
Batch No.: 0000229642  
Manufactured Date: 2019/05/13  
Expiration Date: 2021/05/10  
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)	$\leq 10$	5
ACS – Residue after Evaporation	$\leq 0.0005 \%$	$< 0.0001$
ACS – Titrable Acid ( $\mu\text{eq/g}$ )	$\leq 0.8$	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)	$\leq 0.05 \%$	0.03
Ultraviolet Absorbance (1.00-cm cell vs. water) – 400–300 nm	$\leq 0.01$	$< 0.01$
Ultraviolet Absorbance (1.00-cm cell vs. water) – 280 nm	$\leq 0.02$	$< 0.01$
Ultraviolet Absorbance (1.00-cm cell vs. water) – 260 nm	$\leq 0.04$	0.01
Ultraviolet Absorbance (1.00-cm cell vs. water) – 240 nm	$\leq 0.10$	0.07
Ultraviolet Absorbance (1.00-cm cell vs. water) – 220 nm	$\leq 0.50$	0.30
Ultraviolet Absorbance (1.00-cm cell vs. water) – 215 nm	$\leq 1.00$	0.42

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),  $\mu\text{m}$ :

2.0 – 2.8 ; 4.3 – 6.0

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



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  
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