

CERTIFICATE OF ANALYSIS **METHANOL**

Meets GENERAL USE HPLC-UV Grade Monographs

Lot #

C18B22009

QC#

PPR35426

Date of Manufacture:

02/22/18

Recommended Retest Date:

Five Years from Date of Manufacture

Main Catalog # 33900HPLC

PRODUCT SPECIFICATIONS	MONO - GRAPH	LIMITS		RESULTS
Assay (GC), min, corrected for water	ACS	99.8%		99.98%
	NF	99.9%		99.98%
Identification A (Infrared Absorption)	NF	To Pass		Pass
Identification B (GC Analysis)	NF	To Pass		Pass
Acidity	NF	NMT 0.45mL 0.02N NaOH required		0.20 mL
Titrable Acid, max	ACS	0.0003 meq/g		0.0001 meq/g
Alkalinity (as ammonia)	NF	NMT 0.20mL 0.02N H ₂ SO ₄ required (3 ppm ma		0.10 mL
Titrable Base, max	ACS	0.0002 meq/g		0.0001 meq/g
Readily Carbonizable Substances	NF	To Pass		Pass
Carbonyl Compounds, max		Acetone	0.001%	None Detected
	ACS	Formaldehyde	0.001%	<0.001%
		Acetaldehyde	0.001%	<0.001%
Acetone & Aldehydes (as Acetone)	NF	0.003%		<0.003%
Readily Oxidizable Substances	NF	To Pass		Pass
Non-Volatile Residue	NF	NMT 2mg (0.001% w/w)		0.0 mg
Residue After Evaporation, max	ACS	0.001%		0.000%
Color (APHA), max	ACS	10		. 1
Substances Darkened by H ₂ SO ₄	ACS	To Pass		Pass
Substances Reducing KMnO ₄	ACS	To Pass		Pass
Ultraviolet absorption		205nm	1.00 max.	0.64
	ACS	210nm	0.80 max.	0.36
		220nm	0.40 max.	0.17
		230nm	0.20 max.	0.08
		240nm	0.10 max.	0.03
		260nm	0.04 max.	0.00
		280nm-400nm	0.01 max.	0.00
Water, max	NF, ACS	0.10%		0.02%
Solubility in Water	ACS	To Pass		Pass

This product is manufactured for Routine HPLC Analysis and meets the requirements for General Use HPLC Grade, ACS Monographs. This product is not intended for GC or critical HPLC analysis. See Glass Purified, Glass Distilled Grade for those

Form Methanol-HPLC, # 401, Rev. 2.8, 06/16, KAD

Approved by: T. Boudreau, Quality Control Chemist

<u>Disclaimer</u>: For Industrial/Lab use only. Not intended as a Drug Substance, Medical Device or Disinfectant. Appropriate legal use of this product is the responsibility of the user. (Rev. # disclaimer only, rev 3.6, 07/15, PD)