

**CERTIFICATE OF ANALYSIS**

**Product Name** REAGENT ALCOHOL 200 proof (Anhydrous), General Use HPLC/UV  
 Grain Derived Ethanol Denatured with METHANOL and ISOPROPANOL

**Grade** Meets ACS Grade Monograph

**Catalog #** 241HPLC200

**Lot #** C21E2000200RE200E001

**Date of Manufacture:** 05/24/21

**Recommended Retest Date:** Three Years from Date of Manufacture

TEST	SPECIFICATION	RESULT	
Assay (by GC):	Ethanol	89.5 – 91.5%	
	Methanol	4.0 – 5.0%	
	Isopropanol	4.5 – 5.5%	
Assay:	SDA3A 200	94.0 – 96.0%	
	Isopropanol	4.0 – 6.0%	
Water	0.1% max.	0.02%	
Residue After Evaporation	5 ppm max.	<5 ppm	
Specific Gravity	0.7902 - 0.7912 @ 20.0°C	0.7904	
Specific Gravity	0.785 - 0.795 @ 25.0°C	0.787	
Color (Pt-Co)	5 Max.	<5	
Appearance	Clear Liquid	Pass	
Odor	Characteristic	Pass	
Identification	To Pass Test	Pass	
Titration Acid	0.0003 meq/g	<0.0003 meq/g	
Titration Base	0.0002 meq/g	<0.0002 meq/g	
Substances Reducing KMnO <sub>4</sub>	To Pass Test	Pass	
Solubility in Water	To Pass Test	Pass	
Refractive Index	1.3580-1.3610 @ 25°C	1.3587	
Ultraviolet Absorbance	205nm	1.00 max	0.79
	210nm	0.60 max	0.41
	220nm	0.30 max	0.21
	230nm	0.20 max	0.11
	250nm	0.05 max	0.02
	270nm	0.01 max	0.00
	400nm	0.01 max	0.00
Fluorescence Background	To Pass Test	Pass	
LC Suitability	To Pass Test	Pass	

**Certification and Compliance Statements**

This lot of Reagent Alcohol 200 proof complies with the American Chemical Society monograph, all of the above mentioned specifications and the requirements of 27 CFR Part 20.

This product is not derived, nor does it come in contact with, any materials derived from bovine or other animal sources.

This product is for further commercial manufacturing, laboratory or research use, and may be used as a process solvent for pharmaceutical purposes. It is not intended for use as an active ingredient in drug manufacturing nor as a medical device or disinfectant. Appropriate/legal use of this product is the responsibility of the user.



Approved by: T. Boudreau, Quality Control Chemist

Date of Approval:

05/24/21