

GAS INNOVATIONS®

CERTIFICATE OF ANALYSIS

Anhydrous Ethyl Alcohol, 200 Proof, USP*

Lot No: 202110040720

Certification Date: 10/6/2021

Test	Result	Specification	Method
Ethanol; vol%	99.95	97.0% min	USP
Acidity; µL/L	<10	Max 30	USP 41 - GC
Acetaldehyde + Acetal; µL/L	5.5000	Max 10	USP 41 - GC
Methanol; µL/L	12.6000	Max 200	USP 41 - GC
Benzene; µL/L	ND	Max 1	USP 41 - GC
Sum of All Other Impurities; µL/L	17.2	Max 300	USP
UV-Vis Absorbance at 240 nm; Abs	0.34	Max 0.4	USP
UV-Vis Absorbance at 250-260 nm; Abs	0.19	Max 0.3	USP
UV-Vis Absorbance at 270-340 nm; Abs	0.02	Max 0.1	USP
Infrared Spectroscopy	Pass	Pass	USP
Color of Solution	Colorless	Colorless	USP
Clarity of Solution	Clear	Clear	USP
Non-Volatile Residue; mg/100 mL	0.8	Max 2.5	USP
Specific Gravity at 15.56C;	0.795	Max 0.7962	USP

1 ND is <1 µL/L or <1PPM

2 Pass on IR Scan means that samples is greater than a 99.0% match to USP Reference Standard IR Scan

* This product has been tested to meet the specifications of the United States Pharmacopeia (USP)

APPROVED BY:

Dustin Taylor - GPY



Midwest Renewable Energy, LLC
Sutherland, NE 69165

For more information please contact Sales@Ceres14.com