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## Certificate of Analysis

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Product: Reagent Alcohol, Ethanol Denatured  
CAS# 64-17-5 (~90%)  
Date of Manufacture: Feb-28-2024

CP-E9085  
Lot# 241231-B082880  
Expiration Date: Feb-27-2027

Meets ACS Specifications

Test	Specification	Result (units)
Appearance	Clear, Free of suspended Matter	Pass
Color (Pt-Co)	10 Max.	LT 10
Odor	Characteristic	Pass
Residue After Evaporation	10 ppm max.	LT 10ppm
Ethanol	89.5 – 91.5 %	90.47 %
Identification	To Pass Test	Pass
Isopropanol	4.5 – 5.5 %	5.06 %
Methanol	4.0 – 5.0 %	4.47 %
Substances Reducing KMnO <sub>4</sub>	To Pass Test	Pass
Refractive Index	1.3580 – 1.3610 @ 25C	1.3587
SDA3A 200	94.0 – 96.0 %	94.94 %
Specific gravity	0.7902 – 0.7912 @ 20.0C	0.7903
Solubility in Water	To Pass Test	Pass
Titrateable Acid	0.0003 meq/g	LT 0.0003 meq/g
Titrateable Base	0.0002 meq/g	LT 0.0002 meq/g
Water	0.10 % max.	0.02 %

LT = Less Than

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