

Duda Diesel LLC
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Madison, AL 35756
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CERTIFICATE OF ANALYSIS

Acetic Acid Glacial

Customer:	Lot Number: 969844240097005
	Date Analyzed: 4-7-10
	Ship Date:

Parameter	Analysis	Specifications
*Appearance (Pass / Fail)	Pass	Clean
Chlorides	< 1.0	1 ppm Maximum
Color, Pt-Co Unit	2.8	10 Maximum
Distillation Range	0.6	1°C Maximum
Formic Acid	0.009	0.050% Maximum
Acetic Acid	99.95	99.85% Minimum
Freezing Point	16.55	16.35°C Minimum
Heavy Metals, as Pb	< 0.20	0.5 ppm Maximum
Iron	0.02	1.00 ppm Maximum
Nonvolatile Residue	< 10	10 ppm Maximum
Permanganate Time	> 2	2 Hours Minimum
Propionic Acid	227.8	500 ppm Maximum
Sulfates	< 1.0	1 ppm Maximum
Sulfurous Acid	< 1.0	1 ppm Maximum
Water	0.055	0.150% Maximum
Aldehydes, as Acetaldehydes	< 0.0001	0.0050% Maximum
*Suspended Matter (Pass / Fail)	Pass	Free
*Specific Gravity @ 68 F	1.051	1.048 – 1.055

Test results based on the manufacturer's analysis unless indicated by (*).

Manufacturer: BP Chemicals

Analyst: G. Blemker

Approved: *Greg Blemker*