



V1401 KOPTEC, 1 Gallon
CERTIFICATE OF ANALYSIS
ETHYL ALCOHOL USP 140 PROOF
Lot # A04291102G Manufactured April 2011

TEST	SPECIFICATION	UNIT	TEST RESULT
Assay-Ethyl Alcohol (%)	68.0-72.0	%	69.9
Specific Gravity @ 15.56 ° C.	0.8848 - 0.8948	N/A	0.8897
Water (%)	28.0- 32.0	%	30.1
Color	Passes USP Test for Color	N/A	Pass
Clarity	Passes USP Test for Clarity	N/A	Pass
Acidity	< 30	ppm	<30
Alkalinity	Passes USP Test	N/A	Pass
Non Volatile Residue	≤ 2.5	mg/100 ml	<2.5

Volatile Impurities

Acetaldehyde	≤ 10	ppm	4
Benzene	≤ 2	ppm	<2
Methanol	≤ 200	ppm	16
Other Impurities	≤ 300	ppm	<30

Ultraviolet Absorption

UV Absorbance Curve 235-304 run against Water	Passes USP for Smooth Curve	N/A	Smooth Curve Passes
UV Absorbance @ 240 nm	≤ 0.40	A	<0.40
UV Absorbance @ 250nm	≤ 0.30	A	<0.30
UV Absorbance @ 260 nm	≤ 0.30	A	<0.30
UV Absorbance @ 270 to 340nm	≤ 0.10	A	<0.10

Reviewed By

Date April 2011

Michele Nicola Grossmiller
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