



Saffire Blue inc., 1444 Bell Mill Side Road, Tillsonburg, ON N4G4G9 Canada

Certificate of Analysis

PRODUCT: GLYCERIN 99P

Glycerin 99.7% USP

LABELER: 46145

Batch Number: 12215-EA

DATE OF MANUFACTURE: DECEMBER 18, 2015

DATE OF EXPIRY/RE-TEST: DECEMBER 17, 2016

<u>Test</u>	<u>Result</u>	<u>Specification</u>
Assay % by wt.	99.7	99.5 Min.
Color, APHA	8.0	< 15
Specific Gravity 25°C	1.2612	1.2607-1.2618.
Residue on Ignition (%)	0.001	<0.005
Chlorides (ppm)	1.24	<10
Sulfates (ppm)	0.85	<20
Chlorinated Compounds (ppm)	1.85	<5
Moisture (%)	0.30	0.50 max.
Fatty Acids & Esters (titrant: 0.5N NaOH)	NMT 0.3	<NMT 1.0 ml
Arsenic (ppm)	<1.0	<1.5
Heavy Metals (ppm)	<1.0	<5
Ethylene Glycol Content(%)	<0.001	<0.1
Diethylene Glycol Content (%)	<0.001	<0.1
Identification By IR	PASS	Match to Standard
Identification By GC	PASS	Match to Standard

Approved by

Richard E. Thatcher

Customer Service Laboratory Group