

Certificate Of Analysis

Material	: 499204 Propylene Glycol USP/EP	Customer Order No.	: BL11716
Batch Number	: BL20910733	Customer Number	: 49455
Vehicle Number	: 800268	Date Shipped	: September 10, 2012
Estimated Quantity	: 39,860 LBS	Order No.	: 2718797 000010
		Delivery Item No.	: 83918608 000010

Test Description	Test Result	Specifications		Unit of Measure
		Minimum	Maximum	
Vehicle Type	T/T			
Vehicle ID	800268			
Miscellaneous Text	RS#692848,852,855,857			
Inspection Lot	1283601			
Manufacturing Date	20120907			
Acidity as acetic acid	0.0006		0.0020	weight %
Appearance	Pass	Pass		
Assay as PG, on a dry basis	99.94	99.80		weight %
PG Retention Time, ID Test C	Pass	Pass		
Chlorides	< 0.5		0.5	ppm
Color, Pt-Co	5		10	APHA Color
Heavy Metals as Pb	< 1		5	weight ppm
Iron	0.04		0.50	weight ppm
Odor	Pass	Pass		
Suspended matter	Pass	Pass		
Residual Solvents	Pass	Pass		
Water	0.007		0.200	weight %
Delivery Number:		Cust/PO Number:		



(*** Continued ***)

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Delivery Item: 83918608 000010

Test Description	Test Result	Specifications		Unit of Measure
		Minimum	Maximum	
Diethylene Glycol	< 0.001		0.008	weight %
Ethylene Glycol	< 0.001		0.008	weight %
TYPICAL VALUES	SHOWN BELOW			
Arsenic as As	< 1		1	weight ppm
CONEG Metals	Pass	Pass		
Distillation IBP @760 mmHg	186.0	186.0		degrees C
Distillation DP @760 mmHg	188.5		189.0	degrees C
IR Spectrum	Pass	Pass		
Oxidiz Subst as ml thiosulfate	0.0		0.2	Milliliter
Reducing Substances	Pass	Pass		
Refractive Index @ 20 C	1.4328	1.4310	1.4340	.
Residue on Ignition	0.0010		0.0050	weight %
Solubility @25 deg. C.	Pass	Pass		
Specific Gravity @ 20/20 °C	1.0387	1.0377	1.0389	.
Specific Gravity @ 25/25C	1.0358	1.0352	1.0364	.
Sulfate	< 0.006		0.006	weight %

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