



**ATLANTA WAREHOUSE**

3939 Royal Drive, Ste 224 and 226  
Kennesaw, GA 30144

**UTAH WAREHOUSE**

647 West Billinis Road, Unit 1  
Salt Lake City, Utah 84119

**Certificate Of Analysis**

Lyondell Material : 499204 Propylene Glycol USP/EP  
Batch Number : BL50213524  
Vehicle Number : RACX 51981  
Estimated Quantity : 189,224 LBS

Customer Order No. : 4700061101  
Customer Number : 152134  
Date Shipped : February 17, 2015  
Lyondell Order No. : 3674798 000010  
Delivery Item No. : 86951417 000010

BL50213524PS

B A T C H

BL50213524PS

Test Description	Test Result	Specifications		Unit of Measure
		Minimum	Maximum	
Vehicle Type	TANK CAR			
Vehicle ID	RACX 51981			
Lot Number	SEE NOTE / EXPLANATIONS BELOW			
Inspection Lot	1770741			
Manufacturing Date	20150213			
Expiration Date	20170213			
Acidity as acetic acid	0.0006		0.0020	weight %
Appearance	Pass	Pass		
Assay as PG, on a dry basis	99.94	99.90		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	< 0.01		0.50	weight ppm
Odor	Pass	Pass		
Suspended matter	Pass	Pass		
Residual Solvents	Pass	Pass		
Delivery Number:		Cust/PO Number:		



**RECEIVED**  
3.4.15

(\*\* Continued \*\*)