

## CERTIFICATE OF ANALYSIS

Delivery Number  
 Date: 2/5/2013  
 Container/Compartment  
 Customer PO #

Product Name Propylene Glycol - USP

### Test Details

Parameter	Results	Unit
<b>Batch 130300462</b>		
Acidity, as Acetic Acid	0.00	Wt. %
Appearance	PASS	
Ash, Sulfated	< 0.000	Wt. %
Arsenic	< 1.00	ppm
Assay, GC	99.92	Area %
Chloride, as Cl	< 0.1	Mg/kg
Color	2	Pt-Co
Heavy Metals as Lead	< 1.00	ppm
Infrared Scan	PASS	
Iron as Fe	0.02	ppm
Organic Volatile Impurities	PASS	
Specific Gravity, 20/20° C	1.0383	
Specific Gravity 25/25° C	1.0358	
Sulfate	0.000	ppm
Water	0.00	Wt. %
Refractive Index, 20	1.4325	°C
IBP	187.0	°C
DP	188	°C
Date of Manufacture	20130204	

Notes:

**B. Hurtado/**

Brian Hurtado, Lab Coordinator