ATLANTA WAREHOUSE

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UTAH WAREHOUSE

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Document #: COFA-XXXXXXXXXXXXX		Supersedes:	03
		Page	Page 1 of 1
Title:	Propylene Glycol, USP/FCC K Certificate of Analysis		

Lbs: 9120.00

Mfg Location: U.S.A.

October 27, 2016
Chemworld

Re: Certificate of Analysis

Propylene Glycol, USP/FCC Kosher

Excipient Use Only

PO No.: 9075 Lot No.: 16-285-09

Mfg Date: 10/11/2016
Exp. Date: 10/11/2018
Customer No.: N/A

BOL No.: 39343

Attn: Quality Control Manager

Test	Method	Specification	Result
Appearance	Organoleptic	Clear, colorless, viscous	PASS
		liquid	
Specific Gravity @ 25°C	USP <841>	1.035 - 1.037	1.036
Assay	USP	99.5% minimum	99.95%
Identification A (IR)	USP <197F>	Meets requirements	PASS
Identification B, C (Limit of	USP	Meets requirements	PASS
DEG and EG)			
Chloride	USP <221>	Not more than 0.007% (70 ppm)	<70ppm
Heavy Metals	USP <231>	5 ppm maximum	PASS
Residue on Ignition	USP	Not more than 0.007% (70 ppm)	0.0006%
Sulfate	USP <221>	Not more than 0.006% (60 ppm)	PASS
Residual Solvents	USP <467>	Meets requirements	PASS
Acidity	USP	0.20 ml 0.10N NaOH	0.02
-		maximum (NMT 2.0%)	
Water	USP <921> Method I	Not more than 0.2%	0.09
Lead	FCC	Not more than 1 mg/kg (1 ppm)	<1.0
Distillation Range	FCC	185 – 189°C	186.4-187.6

This product is excipient grade and not intended to be used as an active pharmaceutical ingredient or for specialist applications, such as parenteral, ocular, inhalation, open wound use, or applications that require sterile and/or pyrogen-free excipients. Propylene Glycol products sold by Chemworld.com are not for use in any application intended to produce vapor, fog, mist, smoke or aerosol, wherein there is a possibility of inhalation. Chemworld.com expressly disclaims any and all liabilities related to the use of Propylene Glycol in such applications. Refer to the MSDS materials provided with your product's shipment for additional information about proper use and potential hazards of these products.