

CERTIFICATE OF ANALYSIS

Product Name	PROPYLENE GLYCOL , Kosher
Grade	Meets REAGENT ACS & USP/NF Grade Monographs
Catalog #	369000000
Lot #	C19L10DRM00000PG
Date of Manufacture:	02/18/20
Recommended Retest Date:	Three Years from Date of Manufacture

TEST	MONO GRAPH	SPECIFICATION	RESULT
Assay (on anhydrous basis)	ACS USP	NLT 99.5%	100.00%
Identification A – Infrared Absorption	USP	Conforms to Reference Spectrum	Pass
Identification B – Limit of Diethylene Glycol and Ethylene Glycol	USP	Ethylene Glycol, NMT 0.1%	None Detected
		Diethylene Glycol, NMT 0.1%	None Detected
Identification C – GC	USP	Conforms to Reference Chromatogram	Pass
Specific Gravity	USP	1.035 – 1.037 @ 25°C	1.035
Color	ACS	NMT 10	1
Acidity	USP	NMT 0.20 mL 0.10N NaOH	0.05 mL
Titration Acid	ACS	NMT 0.0005 meq/g	0.0002 meq/g
Inorganic Impurities - Residue on Ignition	USP	NMT 3.5mg	< 3.5 mg
	ACS	NMT 0.005%	< 0.001%
Inorganic Impurities – Chloride and Sulfate (Cl)	USP	NMT 70ppm as Chloride	<1ppm
Chloride (Cl)	ACS	NMT 1ppm	<1ppm
Inorganic Impurities – Chloride and Sulfate (S)	USP	NMT 60ppm as Sulfate	< 60 ppm
Water	USP	0.20% Max.	0.13%
	ACS		