



SHOPBVV.COM

1251 Frontenac Rd. Naperville, IL 60563
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Date: 06/17/2026

CERTIFICATE OF ANALYSIS

Product: Propylene Glycol USP

LOT #: 002016SCKBOW

Test	Unit	Lower Limit	Upper Limit	Value	Method
S Residue on Ignition USP	%	-	0.0070	0.0002	Current JP
Assay	%	99.80	-	99.99	Current USP
M Acidity	ml	-	0.20	0.02	Current USP
M Chlorides	ppm	-	70	< 70	Current USP
S Residue on Ignition FCC	%	-	0.0070	0.0002	Current JP
S Residue on Ignition JP	%	-	0.0050	0.0002	Current JP
M Specific Gravity @ 25/25degC	-	1.035	1.037	1.036	Current USP
M Sulfate	ppm	-	60	< 60	Current USP
Water Content	%	-	0.200	0.003	Current USP
M ID Test A matches IR scan	-	-	-	Pass	Current USP
ID Test B Limit of Ethylene Glycol	-	-	-	Pass	Current USP
ID Test B Limit of Diethylene Glycol	-	-	-	Pass	Current USP
ID Test C Matches GC Scan	-	-	-	Pass	Current USP
M Acidity	ml	-	8.3	1.0	Current EP
M Boiling Point	°C	184	189	185	Current EP
M Clarity	-	-	-	Pass	Current EP
M Color	-	-	-	Pass	Current EP
O Melting Point	°C	121	128	126	Current EP
M Oxidizing Substances 0.05M sodium thiosulfate	ml	-	0.20	0.03	Current EP
M Reducing Substances	-	-	-	Pass	Current EP
M Refractive Index @ 20degC	-	1.431	1.433	1.433	Current EP
M Relative Density @ 20/20degC	-	1.035	1.040	1.038	Current EP
M ID Test D	-	-	-	Pass	Current EP
M Ethylene Glycol	%	-	0.0620	< 0.0620	Current EP
M Diethylene Glycol	%	-	0.10	< 0.10	Current EP
S Sulfated ash EP	%	-	0.0100	0.0002	Current JP
Water Content	%	-	0.200	0.003	Current EP
Assay	%	99.80	-	99.99	Current FCC
M Acidity	-	-	-	Pass	Current FCC
M Appearance clear & colorless	-	-	-	Pass	Current FCC
M Distillation, IBP	°C	185.0	-	186.2	Current FCC
M Distillation, DP	°C	-	189.0	187.4	Current FCC

Please consult the SDS for further information.

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O Lead (Pb)	ppm	1.0	< 1.0	Current FCC
M Identification			Pass	Current FCC
matches IR scan				
M Specific Gravity	1.035	1.037	1.036	Current FCC
@ 25/25degC				
Water Content		0.200	0.003	Current FCC
M Acidity			Pass	Current JP
M Arsenic	ppm	2.0	< 2.0	Current JP
M Chlorides	%	0.007	< 0.007	Current JP
M Distilling Range	% vol	95	98	Current JP
184 - 189 degC				
M Glycerine (Odor)			Pass	Current JP
M Heavy Metals	ppm	5.0	< 5.0	Current JP
O Melting Point	°C	174	178	Current JP
M Odor			Pass	Current JP
M Specific Gravity	1.035	1.040	1.038	Current JP
@ 20/20degC				
M Sulfate		0.002	< 0.002	Current JP
Water Content		0.500	0.003	Current JP
Acidity		0.0020	0.0001	DOWM 101370
as acetic acid				
Appearance	-		Pass	Visual
clear, free of suspended matter				
Chlorides	ppm	1.0	< 1.0	DOWM 101867
Color, Pt-Co		10	2	ASTM D5386
Dimer, Trimer		0.100	0.010	DOWM 100687
& Higher Polymers				
Ethylene Glycol	%	0.0080	< 0.0080	DOWM 100687
Diethylene Glycol	%	0.0080	< 0.0080	DOWM 100687
Iron	ppm	0.30	0.01	ASTM E394
Odor			Pass	Olfactory
practically odorless				
M Spec. Grav. @ 20C	1.0376	1.0389	1.0381	ASTM D4052

Note 1:

Values reported for Assay, Ethylene Glycol and Diethylene Glycol under USP and for Assay under

Note 2:

Ethylene Glycol and Diethylene Glycol under EP will be analyzed per EP method quarterly. Ethylene glycol and diethylene glycol result by DOWM100687 is compliant with European Pharmacopeia monograph.

Note 3:

Performance of validated Gas Chromatography (GC) method is superior to the USP, EP, FCC and JP monograph GC methods in precision and accuracy at the levels of the specification limits for Assay, Ethylene Glycol and Diethylene Glycol. validated Gas Chromatography (GC) results for Ethylene Glycol and Diethylene Glycol complies with Ethylene Glycol and Diethylene Glycol per the Japanese Pharmacopeia.

Note 4:

Values reported for Water Content under USP, FCC, EP and JP are generated using coulometric Karl-Fischer determination by ASTM E1064. ASTM E1062 conforms with USP, FCC, JP and EP requirements.

Note 5:

Values reported for Residue on Ignition and Sulfated Ash under USP, EP and FCC are obtained using the JP method which is allowed per the ICH Global Harmonization Q4B and General Provisions and Requirements Applying to Specifications, Tests, and Assays of the Food Chemicals Codex.

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