Trade Name:					
Chemical Name: **Propylene Glycol**					
CAS No.: [57-55-6]					
Raw material/ Excipient ■	Starting material/Intermediate □	API product □	Semi-finished product □	Finished product □	
Method of analysis:	USP ■	BP □	EP □	JP □	In House □
Handling and Storage: **Preserve in tight containers**					

Chemical specification

No.	Item	Standard-Specification		Ref.	Recommendation
1	**Description**	Clear, colorless, viscous liquid having a slight, characteristic taste. Is practically odorless. Absorbs moisture when exposed to moist air. Miscible with water, with acetone, and with chloroform		USP48	
2	**Solubility**	Soluble in ether and will dissolve many essential oils, but is immiscible with fixed oils		USP48	
3	**Identification**	A: IR	Infrared Spectroscopy	USP48	
		B: Limit of diethylene glycol and ethylene glycol	Diethylene glycol: NMT 0.10 % Ethylene glycol: NMT 0.10 %	USP48	
		C:	The retention time of the propylene glycol peak of the Sample solution corresponds to that of the Standard solution.	USP48	
4	**Assay**	NLT 99.5 %		USP48	
5	**Residue on Ignition**	NMT 3.5 mg		USP48	
6	**Chloride**	NMT 70 ppm		USP48	
7	**Sulfate**	NMT 60 ppm		USP48	
8	**Specific gravity**	1.035–1.037		USP48	
9	**Acidity**	NMT 0.20 mL of 0.10 N sodium hydroxide		USP48	
10	**Water**	NMT 0.2 %		USP48	

Written by	Reviewed by		Approved by		Documentation
QC Supervisor	QC Manager	R&D Manager	QA Manager	Qualified Person	Stamp
					Validated (Original Document)