

Item Number	G1015
Item	Glycerin, Synthetic, USP, EP, BP, JP
CAS Number	56-81-5
Molecular Formula	C ₃ H ₈ O ₃
Molecular Weight	92.10
MDL Number	
Synonyms	

Test	Specification	
	Min	Max
APPEARANCE		
ASSAY (ANHYDROUS BASIS) (USP)	99.0	101.0 %
ASSAY (ANHYDROUS BASIS) (EP/BP)	98.0	101.0 %
ASSAY (ANHYDROUS BASIS) (JP)	98.0	101.0 %
REFRACTIVE INDEX (EP/BP/JP)	1.470	1475
SPECIFIC GRAVITY (USP)	1.249	
SPECIFIC GRAVITY (JP)	1.258	
ESTERS (EP/BP)	8.0 mL	
APPEARANCE OF SOLUTION (EP/BP)	SOLUTION IS CLEAR AND COLORLESS	
COLOR (USP/JP)	NOT DARKER THAN STANDARD	
RESIDUE ON IGNITION (USP/JP)		0.01 %
SULFATED ASH (EP/BP)		0.01 %
CHLORIDE (USP)		10 ppm
CHLORIDES (EP/BP)		10 ppm
CHLORIDE (JP)		0.001 %
SULFATE (USP/JP)		20 ppm
LIMIT OF CHLORINATED COMPOUNDS (USP)		30 ppm
HALOGENATED COMPOUNDS (EP/BP)		35 ppm
ACIDITY OR ALKALINITY (EP/BP)	COLOURLESS AND <0.2 mL	
ACIDITY OR ALKALINITY (JP)	SOLUTION IS NEUTRAL	
WATER DETERMINATION (USP)		5.0%
WATER (EP/BP)		2.0 %
WATER (JP)		2.0 %

Test	Specification	
	Min	Max
FATTY ACIDS AND ESTERS (USP)		1 mL
FATTY ACIDS AND ESTERS (JP)		3.0 mL
RELATED COMPOUNDS (USP):		
INDIVIDUAL IMPURITIES		0.1 %
TOTAL IMPURITIES		1.0 %
IMPURITY A & RELATED SUBSTANCES (EP/BP):		
IMPURITY A		0.1 %
ANY OTHER IMPURITY WITH RETENTION TIME LESS THAN THE RETENTION TIME OF GLYCEROL		0.1 %
TOTAL OF ALL IMPURITIES WITH RETENTION TIME GREATER THAN THE RETENTION TIME OF G		
THE RETENTION TIME OF GLYCEROL		0.5 %
ALDEHYDES (EP/BP)		10 ppm
SUGARS (EP/BP)	REMAINS BLUE AND NO PRECIPITATE FORMS	
AMMONIUM (JP)	EVOLVED GAS DOES NOT CHANGE MOISTENED RED LINTUS PAPER TO BLUE	
HEAVY METALS (JP)		5 ppm
CALCIUM (JP)	SOLUTION REMAINS UNCHANGED	
ARSENIC (JP)		2 ppm
ACROLEIN, GLUCOSE, OR OTHER REDUCING SUBSTANCES (JP):		
CRITERIA 1	NO YELLOW COLOR IS PRODUCED	
CRITERIA 2	THE COLOR OF THE SOLUTION DOES NOT CHANGE, AND NO TURBIDITY IS PRODUCED	
ETHYLENE GLYCOL, DIETHYLENE GLYCOL, AND RELATED SUBSTANCES (JP):		
ETHYLENE GLYCOL		0.1 %
DIETHYLENE GLYCOL		0.1 %
PEAKS OTHER THAN GLYCERIN, ETHYLENE GLYCOL, AND DIETHYLENE GLYCOL		0.1 %
TOTAL PEAKS OTHER THAN GLYCERIN		1.0 %
READILY CARBONIZABLE SUBSTANCES (JP)	NOT MORE COLORED THAN MATCHING FLUID H	
ELEMENTAL IMPURITIES	AS REPORTED	

Test	Specification	
	Min	Max
IDENTIFICATION A (USP A)	SPECTRUM MATCHES REFERENCE	
IDENTIFICATION B (USP B):		
LIMIT OF DIETHYLENE GLYCOL		0.10 %
LIMIT OF ETHYLENE GLYCOL		0.10 %
IDENTIFICATION C (USP C)	RETENTION TIME CORRESPONDS TO STANDARD	
IDENTIFICATION D (EP/BP A)	1.470	1.475
IDENTIFICATION E (EP/BP B)	SPECTRUM MATCHES REFERENCE	
IDENTIFICATION F (EP/BP C)	1.258	1.268
IDENTIFICATION G (JP)	SPECTRUM MATCHES REFERENCE	
CERTIFIED KOSHER		
CERTIFIED HALAL		
EXPIRATION DATE		
DATE OF MANUFACTURE		
MANUFACTURER NAME:		
MONOGRAPH EDITION		
MONOGRAPH EDITION.		
RESIDUAL SOLVENTS	AS REPORTED	

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