

Product POLYSORBATE 80

 Lot #
 478397

 Manufacturing Date
 02/2022

 Retest Date
 02/2024

Properties	Specifications	Results	
Appearance	Clear Yellow Liquid	Pass	
Acid value	0.0 – 2.0	0.6	
1,4 Dioxane	<1 ppm	< 1 ppm	
Color (Gardner)	0.0 - 5.0	5.0	
Water %	0.0 - 3.0	2.63%	
Heavy Metals, ppm	<10.0 ppm	<10.0 ppm	
Hydroxyl Value	65.0 - 80.0	71.4	
POE % Anhydrous Basic	65.0 - 69.5	68.3	
Saponification Value	45.0 – 55.0	48.1	



Product POLYSORBATE 80

Lot # 528

Manufacturing Date 01/2022
Expiration Date 12/2023

Properties	Specifications	Results
Appearance	Yellow to amber oily liquid	Conform
Color (Gardner)	6 G max	3 – 4 G
Acid value	2 Max	0.1
Saponification Value	45 – 55	48
Hydroxyl Value	65 – 80	71
pH (5%)	6.0 - 8.0	7.1
Moisture Content (%)	3 max	2.78



Product POLYSORBATE 80
Lot # J30426G28068
Shelf Life 2 years

Properties	Specifications	Results
General Appearance (@25 °C)	Yellow Liquid	Pass
Specific Gravity (@25 °C)	1.06 – 1.09	1.06
Color Gardner Method	5.0 Max	4.0
Acid value	2.0 Max	1.22
pH (5% aqueous solution)	6.0 - 7.0	6.44
Hydroxyl Value	65.0 – 80.0	78.0
Saponification Value	45.0 – 55.0	50.0
Identification Test A,B&C (NF method)	Meets NF Requirements	Pass
Viscosity @ 25 Degrees C (Cannon-Fenske)	300.0 – 500.0	424.0
Residue on Ignition %	0.25 Max	<0.25
1,4 Dioxane, ppm	10.0 Max	0.7
Heavy Metals, ppm	10.0 Max	<10.0
Arsenic, ppm	1.0 Max	<1.0
Myristic %	5.0 Max	Conforms
Palmitic %	16.0 Max	Conforms
Palmitoleic %	8.0 Max	Conforms
Stearic %	6.0 Max	Conforms
Oleic %	58.0 – 95.0	Conforms
Linoleic %	18.0 Max	Conforms
Linolenic %	4.0 Max	Conforms
Peroxide Value	10.0 Max	0.0
Free Ethylene Oxide, ppm	1.0 Max	0.0
Water Content % KF	3.0 Max	1.82



Product POLYSORBATE 80
Lot # J9823L08121
Shelf Life 2 years

Properties	Specifications	Results	
Appearance (@25 °C)	Clear Yellow Liquid	Pass	
Acid value (USP <401>)	2.0 Max	0.9	
Saponification Value (USP <401>)	45.0 – 55.0	47.8	
Hydroxyl Value (USP <401>)	65.0 – 80.0	68.4	
Water %	3.0 Max	2.6	
	6.0 – 7.0	2.6 6.7	
pH (5%)			
Color (Gardner)	5.0 Max	2.5	
Viscosity @ 25 °C	300.0 – 500.0	404.2	
Residue on Ignition %	0.25 Max	<0.25	
1,4 Dioxane, ppm	10.0 Max	0.5	
Heavy Metals, ppm	10.0 Max	2.0	
Arsenic, ppm	1.0 Max	<1.0	
Specific Gravity @ 25 °C	1.06 – 1.09	1.076	
Identification Test A,B&C	Meet NF Requirements	Pass	
Fatty Acid Composition %			
Myristic	5.0 Max	0.7	
Palmitic	16.0 Max	5.4	
Palmitoleic	8.0 Max	0.0	
Stearic	6.0 Max	1.6	
Oleic	58.0 – 95.0	82.8	
Linoleic	18.0 Max	0.0	
Linolenic	4.0 Max	0.0	
Peroxide Value	10.0 Max	3.7	
Free Ethylene Oxide, ppm	1.0 Max	0.6	
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