

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2025-12-10 18:35:28

Date of Next Testing: 2028-12-09 18:35:28

Product Name: **Kolliphor® P 188**

CAS Number: 9003-11-6

Specifications & Purity:

Lot #: L2509099

SKU #: **K434430**

Version **1**

Analysis #: **514754**

Storage Temperature: Room temperature

Parameter	Limit Values	Result
Water by Karl Fischer	0-0.75 (%)	0.19000 %
Average Mn	7680-9510 (g/mol)	8130.00000 g/mol
pH Value (1:40)	6.0-7.5	6.90000
Cloud Point, 10% solution	≥100 (°C)	102.36500 °C
APHA Color (50:50 in MeOH)	≤100	44.00000
Ethyleneoxide	0-1 (ppm)	0.32500 ppm
Propylene Oxide	0-5 (ppm)	0.32600 ppm
1,4 Dioxane	0-5 (ppm)	0.25100 ppm
Congearing Point	46-56 (°C)	52.00000 °C
Butylhydroxytoluene	50-125 (ppm)	103.00000 ppm
Arsenic(As)	0-2 (ppm)	0.32500 ppm
Oxyethylene content Weight	79.9-83.7 (%)	80.80000 %
Residue on Ignition	0-0.3 (%)	0.29600 %
Heavy metals	0-20 (ppm)	10.23500 ppm
Ethyleneglycol (EG)	≤620 (ppm)	1.25230 ppm
Ash	0-0.4 (%)	0.23500 %
pH Value (1:10)	5.0-7.5	6.90000
Sum of EG and DEG(≤0.25%)	Pass	Pass
Identification (IR)	Passes test	Passes test
Solution(Pass, Clear and colorless)	pass	Pass
Acid	Pass	Pass



QualityAssurance@aladdinsci.com

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A handwritten signature in black ink that reads "John Su".

John Su
QA & QC Manager