

Certificate of Analysis

Product Name: Poloxamer 188

Product Information

- Product Number: P188-CAS9003116-202704
- Batch Number: P188-2026012001
- Brand: SIGALD
- CAS Number: 9003-11-6
- MDL Number: MFCD00084410
- Formula: $(C_2H_4O)_a-(C_3H_6O)_b-(C_2H_4O)_a$ ($a \approx 80$, $b \approx 27$)
- Formula Weight: Variable (approx. 7680-9510 g/mol)
- Quality Release Date: 20 JAN 2026

Test Item	Specification (Industrial Standard)	Result	Test Method
Appearance	White to off-white waxy solid or flakes	White waxy solid	Visual Inspection
Molecular Weight (GPC)	7680-9510 g/mol	8560 g/mol	Gel Permeation Chromatography (GPC)
Cloud Point (1% Aqueous Solution)	52-58°C	55°C	Cloud Point Determination Method
Viscosity (25°C, 20% Aqueous Solution)	200-400 mPa·s	320 mPa·s	Rotational Viscometer
pH Value (1% Aqueous Solution, 25°C)	5.0-7.5	6.3	Digital pH Meter
Water Content	≤ 1.0%	0.3%	Karl Fischer Titration
Heavy Metals (Pb)	≤ 5 ppm	0.8 ppm	Atomic Absorption Spectrometry (AAS)
Arsenic (As)	≤ 1 ppm	0.2 ppm	Atomic Fluorescence Spectrometry (AFS)
Total Bacterial Count	≤ 100 CFU/g	18 CFU/g	Plate Count Method
E. coli	Negative	Negative	Microbiological Detection
Residual Solvents (Ethanol)	≤ 0.5%	0.1%	Gas Chromatography (GC)
Supplier Information	Confirmed	Confirmed	-
Registered Trademark	Confirmed	Confirmed	-

This batch of product has been tested in accordance with industrial standards for Poloxamer 188 and meets all specified requirements. It is qualified for use.

Issue Date: 20 JAN 2026