

Certificate of Analysis

Product Name: Poly Aluminum Chloride (PAC)

Product Information

- Product Number: PAC-CAS1327419-202611
- Batch Number: PAC-2026111501
- Brand: SIGALD
- CAS Number: 1327-41-9
- MDL Number: MFCD00167083
- Formula: $[Al_2(OH)_n Cl_{6-n}]_m$ ($n=1-5; m \leq 10$)
- Formula Weight: Variable (approx. 174-311 g/mol, based on polymerization degree)
- Quality Release Date: 15 NOV 2025

Test Item	Specification (GB/T 15892-2020)	Result	Test Method
Appearance	Yellowish-brown to reddish-brown transparent liquid	Yellowish-brown transparent liquid	Visual Inspection
Aluminum Oxide (Al ₂ O ₃) Content	≥ 10.0%	11.8%	Complexometric Titration (EDTA Method)
Basicity	40.0-90.0%	68.5%	Acid-Base Titration
pH Value (1% Aqueous Solution, 25°C)	3.5-5.0	4.2	Digital pH Meter
Insoluble Matter in Water	≤ 0.5%	0.15%	Gravimetric Method
Lead (Pb)	≤ 0.0005%	0.0001%	Atomic Absorption Spectrometry (AAS)
Arsenic (As)	≤ 0.0001%	0.00004%	Atomic Fluorescence Spectrometry (AFS)
Chromium (Cr ⁶⁺)	≤ 0.0002%	0.00008%	Diphenylcarbazide Spectrophotometry
Mercury (Hg)	≤ 0.000005%	0.000001%	Atomic Fluorescence Spectrometry (AFS)
Cadmium (Cd)	≤ 0.00005%	0.00002%	Atomic Absorption Spectrometry (AAS)
Viscosity (25°C)	10-30 mPa·s	22 mPa·s	Rotational Viscometer
Density (25°C)	1.15-1.35 g/cm ³	1.28 g/cm ³	Hydrometer Method
Supplier Information	Confirmed	Confirmed	-
Registered Trademark	Confirmed	Confirmed	-

This batch of product has been tested in accordance with GB/T 15892-2020 and meets all specified requirements. It is qualified for use. Issue Date: 15 NOV 2025