



TECHNICAL DATA SHEET

POLY ALUMINUM CHLORIDE (PAC)

Concise Technical Summary for Industrial Water Treatment Applications

Poly Aluminum Chloride (PAC) is an inorganic polymer coagulant used for clarification, flocculation, and removal of suspended impurities in water treatment systems.

PRODUCT NAME & CAS NUMBER

Product Name	Poly Aluminum Chloride (PAC)
Chemical Formula	$Al_n(OH)_mCl_{(3n-m)} / [Al_2(OH)_nCl_{6-n}]_m$
CAS Number	1327-41-9

MAIN APPLICATIONS

- Municipal drinking water and wastewater treatment.
- Industrial process water clarification and turbidity reduction.
- Paper and pulp industry retention, drainage, and sizing support.
- Textile wastewater treatment and color removal support.

KEY PROPERTIES

Appearance	Light yellow powder or amber liquid, depending on supplied grade.
Odor	Odorless to slight characteristic odor.
Purity	Commercial grade; specification as per Certificate of Analysis.
Density	Liquid grade approx. 1.20-1.35 g/cm ³ at 20°C; grade dependent.
Solubility	Freely soluble in water.
pH	Typically acidic; approx. pH 3.5-5.0 for 1% aqueous solution.



STORAGE CONDITIONS

Store in a cool, dry, well-ventilated area away from sunlight, moisture, and incompatible alkaline materials. Keep containers tightly closed. Use approved plastic or corrosion-resistant containers for liquid grades and protect powder grades from humidity.

TECHNICAL DISCLAIMER

Information is based on typical commercial-grade data and is intended for general industrial guidance only. Suitability must be confirmed by application testing, current Certificate of Analysis, and Safety Data Sheet.