

Product Data Sheet

Glacial Acetic Acid - Industrial Grade

Description

Description	Glacial Acetic Acid (GAA) is the high-purity, essentially anhydrous form of acetic acid (min. 99.5%), named for the ice-like crystals it forms if cooled below approximately 16.7°C. This industrial grade is the standard feedstock for downstream chemical synthesis including vinyl acetate monomer (VAM), acetic anhydride and acetate ester production, alongside broad use in textile processing and industrial cleaning.
Applications	Vinyl Acetate Monomer (VAM) and acetic anhydride production Acetate ester synthesis (ethyl acetate, butyl acetate and others) Textile dyeing and finishing Industrial cleaning/descaling and purified terephthalic acid (PTA) production
Grade	Industrial/Technical Grade, Min. 99.5% Assay
CAS No.	64-19-7

Key Benefits

1. High purity (min. 99.5%) supporting efficient, consistent downstream synthesis (VAM, acetic anhydride, esters)
2. Low water and formic acid content for reliable reaction performance
3. Purity supported by freezing point and permanganate time indicators in addition to assay
4. Versatile industrial solvent and chemical intermediate across multiple sectors
5. Produced via modern methanol carbonylation process for high, consistent purity

Chemical Analysis & Physical Data

Typical Specification

Parameter	Test Method	Unit	Specification
Assay (Acetic Acid)	Titration Method	wt%	Min. 99.5
Water Content	Karl Fischer Method	wt%	Max. 0.3
Colour (APHA/Pt-Co)	Visual / Colorimetric Method	–	Max. 10
Formic Acid	GC Method	wt%	Max. 0.1
Iron (Fe)	AAS / ICP Method	mg/kg	Max. 2
Heavy Metals (as Pb)	Colorimetric Method	mg/kg	Max. 5
Permanganate Time Test	KMnO ₄ Reduction Test	min	Min. 30
Non-Volatile Residue	Gravimetric Method	wt%	Max. 0.01
Freezing Point	Standard Freezing Point Method	°C	Min. 16.0
Appearance	Visual	–	Clear, colourless liquid

Packaging

Packaging 200 kg (Net) HDPE-Lined Steel Drums
1,000 L IBC Totes
Flexitank / ISO Tank for bulk liquid shipment
Custom packaging available on request.

Storage & Handling

1. Store in a cool, dry, well-ventilated area away from heat and ignition sources – flammable liquid
2. Use corrosion-resistant storage (stainless steel or suitably lined tanks/containers)

3. Keep away from strong oxidising agents and strong bases – violent exothermic reaction risk
4. Product freezes at approximately 16.7°C – heated storage/lines may be needed in cool climates to keep material pumpable
5. Keep containers tightly closed to prevent moisture ingress and vapour release

Quality Assurance

1. Every batch is tested against the specification above before dispatch
2. A batch-specific Certificate of Analysis (COA) accompanies each shipment, reporting assay, water content, colour and freezing point against this TDS
3. COA available on request prior to shipment for buyer pre-approval
4. Third-party inspection (SGS/Intertek) can be arranged on request for regulated-market shipments

Disclaimer: The information provided in this document is based on our current knowledge and is intended as a general guide. Ochnology Solution Pvt. Ltd. reserves the right to modify specifications without prior notice. Buyers are advised to conduct their own testing for specific applications. A batch-specific Certificate of Analysis (COA) is available on request for each shipment.