

PRODUCT IDENTIFICATION



Product Name: Isopropyl Acetate 99.98% Technical Grade

CAS Number: 108-21-4

Molecular Formula: C₅H₁₀O₂

Molecular Weight: 102.13 g/mol

Grade: Technical Grade

Purity / Concentration: 99.98%

Synonyms: Isopropyl Ethanoate, Propan-2-yl Acetate

PRODUCT OVERVIEW

Isopropyl Acetate 99.98% Technical Grade is a high-purity, colorless, volatile solvent characterized by its exceptional clarity and low moisture content of 0.015%. This versatile chemical is widely utilized across industrial sectors for its efficient solvency, rapid evaporation rate, and reliable performance in critical formulations.

Grade Significance: Technical Grade signifies that this product is manufactured to meet consistent industrial purity standards, offering a balance of high performance and cost-effectiveness for non-laboratory specific manufacturing processes.

CERTIFICATE OF ANALYSIS — TYPICAL VALUES

PARAMETER	UNIT	TYPICAL	MIN	MAX	TEST METHOD
Purity Gc	%	99.7	99.5	100.5	GC/Titration
Color (APHA)	APHA	2	—	10	APHA
Specific Gravity (20°C)	g/mL	0.8718	0.8698	0.8738	Hydrometer @ 20°C
Residue On Evaporation	ppm	3	—	10	Evaporation
Water Karl Fischer	%	0.015	—	0.05	Karl Fischer
Acidity As Acetic	ppm	15	—	50	Titration

ND = Not Detected. Values are typical and may vary by lot.

PHYSICAL & CHEMICAL PROPERTIES

Appearance	Colorless, volatile liquid	Odor	Fruity, sweet odor
Form	Liquid	Boiling Point	190 to 196 °F at 743.3 mmHg (NTP, 1992)
Melting / Freezing Point	-100.1 °F (NTP, 1992)	Flash Point	36 °F (NTP, 1992)
Solubility	Soluble in water, alcohols, ethers, and most organic solvents	Molecular Formula	C ₅ H ₁₀ O ₂
Molecular Weight	102.13 g/mol	Vapor Pressure (20°C)	30 mmHg
Viscosity (25°C)	0.45 cP	Refractive Index (20°C)	1.375
Density (25°C)	0.872 g/mL	Decomposition Temp.	Not expected under normal handling

APPLICATIONS

1. **Analytical Chemistry** — Functions as a high-performance mobile phase component in reversed-phase HPLC, allowing for the precise separation of complex organic compounds.
2. **Coatings and Adhesives** — Acts as a primary solvent in the formulation of paints and adhesives, providing excellent flow properties and a controlled evaporation rate for uniform finishes.
3. **Pharmaceutical Manufacturing** — Used in liquid-liquid extraction processes to effectively isolate and purify pharmaceutical intermediates during synthesis.
4. **Industrial Cleaning** — Serves as a powerful cleaning agent for removing stubborn residues and surface contaminants from specialized machinery and components.

STORAGE & HANDLING

Due to its highly flammable nature, Isopropyl Acetate must be stored in a cool, well-ventilated area away from heat sources, sparks, or open flames to mitigate fire risks. Proper sealing is essential to prevent evaporation and moisture contamination, ensuring the product maintains its technical integrity during long-term storage.

- Store in a cool, well-ventilated area away from heat sources and open flames.
- Use materials compatible with isopropyl acetate, such as HDPE or glass containers.
- Avoid contact with strong oxidizing agents and acids.
- Keep container tightly closed when not in use to prevent evaporation.
- Use appropriate personal protective equipment (PPE) including gloves and goggles.

AVAILABLE PACKAGING

- 1 Quart
- 1 Gallon
- 5 Gallon
- 15 Gallon
- 55 Gallon
- 275 Gallon
- 330 Gallon

SAFETY SUMMARY (CROSS-REFERENCE TO SDS)

Signal Word: **Danger**



Hazard Statements:

- H225: Highly flammable liquid and vapour
- H319: Causes serious eye irritation
- H336: May cause drowsiness or dizziness

Emergency Contact: CHEMTEL - 800-255-3924 (24 Hours/Day, 7 Days/Week)

For complete safety information, refer to the Safety Data Sheet (SDS) for this product.

Alliance Chemical | 204 South Edmond St, Taylor, Texas 76574 | 512-365-6838 | www.alliancechemical.com

Disclaimer: The information contained herein is believed to be accurate and represents the best information currently available to us. However, Alliance Chemical makes no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes.