

PRODUCT IDENTIFICATION



Product Name: Isopropyl Acetate 99.98%
CAS Number: 108-21-4
Molecular Formula: C₅H₁₀O₂
Molecular Weight: 102.13 g/mol
Grade: Technical
Purity / Concentration: 99.98%
Synonyms: Isopropyl Ethanoate, Propan-2-yl Acetate

PRODUCT OVERVIEW

Isopropyl Acetate 99.98% is a high-purity Technical grade solvent known for its excellent solvency and controlled evaporation rate. Featuring an assay of 99.985% and minimal moisture content of 0.015%, it is a reliable choice for industrial formulations and laboratory applications.

Grade Significance: Technical grade indicates that the product meets high-purity standards suitable for industrial and laboratory use where performance and consistency are critical. It ensures that users receive a standardized chemical profile, minimizing the risk of impurities affecting their end-product quality.

CERTIFICATE OF ANALYSIS — TYPICAL VALUES

PARAMETER	UNIT	TYPICAL	MIN	MAX	TEST METHOD
Purity Gc	%	99.99	99.8	100.0	GC/Titration
Color (APHA)	APHA	2.5	0	5	APHA
Specific Gravity (20°C)	g/mL	0.8995	0.897	0.902	Hydrometer @ 25°C
Non-Volatile Residue	%	ND	0	—	Residue on Ignition
Water Karl Fischer	%	0.0030	0	0.05	Karl Fischer
Acidity As Acetic	%	0.0030	0	0.01	Titration per ACS/USP

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** — Serves as a high-performance mobile phase component in reversed-phase HPLC for the precise separation of complex organic compounds.
2. **Coatings and Adhesives** — Functions as a high-efficiency solvent in paint and adhesive formulations, providing balanced evaporation and superior film-forming properties.
3. **Pharmaceuticals** — Utilized in liquid-liquid extraction processes to effectively isolate and purify pharmaceutical intermediates.
4. **Industrial Cleaning** — Acts as a powerful cleaning agent for removing stubborn residues and contaminants from sensitive industrial surfaces.

STORAGE & HANDLING

Due to its classification as a highly flammable liquid with a flash point of 11°C, this chemical must be stored in a cool, well-ventilated area away from ignition sources. Proper containment prevents the accumulation of vapors, which can cause drowsiness or dizziness, and ensures the product remains stable for industrial use.

- 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 vapor [Danger Flammable liquids]
- H319: Causes serious eye irritation [Warning Serious eye damage/eye irritation]
- H336: May cause drowsiness or dizziness [Warning Specific target organ toxicity, single exposure; Narcotic effects]

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.

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