

PRODUCT IDENTIFICATION



Product Name: Isopropyl Alcohol 99% - Technical Grade

CAS Number: 67-63-0

Molecular Formula: C₃H₈O

Molecular Weight: 60.10 g/mol

Grade: Technical Grade

Purity / Concentration: 99%

Synonyms: Isopropanol, 2-Propanol

PRODUCT OVERVIEW

Isopropyl Alcohol 99% Technical Grade is a high-purity, clear solvent featuring an assay of 99.8% and minimal water content of 0.1%. This volatile liquid is essential for industrial cleaning, chemical synthesis, and pharmaceutical extraction processes.

Grade Significance: Technical Grade provides a cost-effective, high-purity solution specifically balanced for industrial and manufacturing requirements where laboratory-grade analytical precision is not strictly required.

CERTIFICATE OF ANALYSIS — TYPICAL VALUES

PARAMETER	UNIT	TYPICAL	MIN	MAX	TEST METHOD
Assay (wt%)	%	99.8	99	—	Gas Chromatography
Color (APHA)	APHA	5	—	10	ASTM D1209
Specific Gravity (20°C)	g/mL	0.785	0.785	0.786	ASTM D4052
Water Content	%	0.1	—	0.2	ASTM D1364
Acidity As Acetic Acid	%	0.0010	—	0.0020	ASTM D1613
Non Volatile Matter Mg Per 100ML	mg/100mL	1	—	2	ASTM D1353

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

PHYSICAL & CHEMICAL PROPERTIES

Appearance	Clear, volatile liquid with high transparency	Odor	Characteristic alcohol odor
Form	Liquid	Boiling Point	82°C (179.6°F)
Melting / Freezing Point	-89°C (-128.2°F)	Flash Point	12°C (53.6°F)
Solubility	Highly miscible with water, alcohols, many solv...	Molecular Formula	C ₃ H ₈ O
Molecular Weight	60.10 g/mol	Vapor Pressure (20°C)	33.5 mmHg
Viscosity (25°C)	0.88 cP	Refractive Index (20°C)	1.377
Density (25°C)	0.786 g/mL		

APPLICATIONS

1. **Pharmaceuticals** — Utilized as a high-efficiency solvent for the extraction of active pharmaceutical ingredients from raw materials.
2. **Analytical Chemistry** — Serves as a reliable mobile phase component in reversed-phase chromatography for the accurate separation of organic compounds.
3. **Manufacturing** — Used extensively for precision cleaning and degreasing of components to ensure optimal surface preparation.
4. **Cosmetics** — Functions as a versatile solvent base in various topical formulations and personal care product manufacturing.

STORAGE & HANDLING

Due to its flash point of 12°C, this chemical is highly flammable and must be stored in a cool, well-ventilated area away from ignition sources. Proper containment prevents the buildup of dangerous vapors and ensures compliance with safety protocols regarding flammable liquids.

- Store in a cool, well-ventilated area away from heat sources.
- Use containers made of HDPE or glass to prevent chemical reactions.
- Keep away from strong oxidizers and acids to avoid hazardous reactions.
- Ensure proper personal protective equipment (PPE) is worn during handling, 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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