

PRODUCT IDENTIFICATION



Product Name: Isopropyl Alcohol 70% USP Grade

CAS Number: 67-63-0

Molecular Formula: C₃H₈O

Molecular Weight: 60.10 g/mol

Grade: USP Grade

Purity / Concentration: 70%

Synonyms: Isopropanol, 2-Propanol

PRODUCT OVERVIEW

Alliance Chemical offers high-quality Isopropyl Alcohol 70% USP Grade, a clear and colorless solvent ideal for critical applications. With an assay of 70.1% and a specific gravity of 0.878 g/mL, this product provides the reliable performance required for laboratory and pharmaceutical processes.

Grade Significance: USP Grade signifies that the product meets the stringent standards set by the United States Pharmacopeia for purity and quality, ensuring it is safe and reliable for sensitive pharmaceutical and analytical applications.

CERTIFICATE OF ANALYSIS — TYPICAL VALUES

PARAMETER	UNIT	TYPICAL	MIN	MAX	TEST METHOD
Assay Gc	%	70	69.5	70.5	GC
Color (APHA)	APHA	3	0	5	APHA
Specific Gravity (20°C)	g/mL	0.785	0.783	0.787	Hydrometer @ 25°C
Non-Volatile Residue	%	ND	—	0.0006	Residue on Ignition
Residue On Evaporation	ppm	15	—	50	Evaporation
Water Karl Fischer	%	0.5	0	1	Karl Fischer
Arsenic As	ppm	0.5	0	1	ICP-MS
Lead Pb	ppm	0.5	0	1	ICP-MS
Acidity As Acetic	ppm	6	0	10	Titration

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

PHYSICAL & CHEMICAL PROPERTIES

Appearance	Clear, colorless liquid	Odor	Characteristic alcohol odor
Form	Liquid	Boiling Point	180.5 °F at 760 mmHg (NTP, 1992)
Melting / Freezing Point	-127.3 °F (NTP, 1992)	Flash Point	18.3 °C closed cup (Fisher ACC#89530) — Class 3 PG II.
Specific Gravity	0.877	Solubility	Soluble in water, alcohol, ether, and many other organic solvents
Molecular Formula	C ₃ H ₈ O	Molecular Weight	60.10 g/mol
Vapor Pressure (20°C)	33 mmHg	Viscosity (25°C)	2.07 cP
Refractive Index (20°C)	1.377	Density (25°C)	0.870 g/mL

APPLICATIONS

1. **Analytical Chemistry** — Used as a consistent mobile phase component in reversed-phase high-performance liquid chromatography to effectively separate organic compounds.
2. **Pharmaceutical Manufacturing** — Serves as a vital solvent in the extraction of active pharmaceutical ingredients, ensuring purity and stability in the final formulation.
3. **Industrial Cleaning** — Acts as an effective degreasing and cleaning agent for surfaces in precision manufacturing environments where residue must be minimized.
4. **Chemical Synthesis** — Functions as a reliable reagent in a variety of chemical reactions and analytical procedures requiring a standardized USP-grade solvent.

STORAGE & HANDLING

Due to its classification as a highly flammable liquid with a flash point of 12°C, it must be stored in a cool, well-ventilated area away from heat sources and open flames. Proper containment prevents the accumulation of vapors, which mitigates risks of ignition and potential respiratory irritation.

- Store in a cool, well-ventilated area away from heat sources.
- Use containers made of HDPE or glass to avoid chemical reactions.
- Keep away from strong oxidizers and acids to prevent hazardous reactions.
- Ensure proper PPE is worn, including gloves and goggles, during handling.
- Avoid exposure to direct sunlight to maintain product integrity.

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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