

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-purity Isopropyl Alcohol 70% USP Grade, a clear and colorless solvent essential for precise laboratory and manufacturing applications. With a strictly controlled specific gravity of 0.8779 and non-volatile residue below detection limits, this product ensures consistency and reliability in your critical processes.

Grade Significance: USP Grade signifies that this product meets the rigorous standards set by the United States Pharmacopeia, ensuring it is manufactured with the purity and safety profiles required for pharmaceutical and highly regulated technical 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	0.8779	0.8759	0.8799	Hydrometer @ 25°C
Non-Volatile Residue	%	ND	—	0.0006	Residue on Ignition
Residue On Evaporation	ppm	15	—	50	Evaporation
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. **Pharmaceuticals** — Utilized in the extraction of active pharmaceutical ingredients due to its excellent solvent properties and high purity standards.
2. **Analytical Chemistry** — Acts as a reliable mobile phase component in reversed-phase high-performance liquid chromatography for the accurate separation of organic compounds.
3. **Manufacturing** — Effective for cleaning and degreasing sensitive surfaces in industrial manufacturing processes where residue-free results are required.
4. **Chemical Research** — Serves as a versatile reagent in various chemical reactions and laboratory analyses requiring a standardized, USP-compliant solvent.

STORAGE & HANDLING

Due to its classification as a highly flammable liquid, this product must be stored in a cool, well-ventilated area away from heat, sparks, or open flames. Proper containment prevents the accumulation of vapors, which mitigates the risk of fire and potential respiratory irritation or dizziness for personnel.

- 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 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.

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