

### PRODUCT IDENTIFICATION



**Product Name:** Isopropyl Alcohol 70% USP Grade

**CAS Number:** 67-63-0

**Molecular Formula:** C<sub>3</sub>H<sub>8</sub>O

**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 (wt%)	%	70.1	68	72	USP <621>
Specific Gravity (20°C)	g/mL	0.878	0.877	0.883	USP <841>
Nonvolatile Residue Mg	mg	1	—	10	USP <202>
Water Content	%	29.5	—	32	USP <921>
Acidity	—	Passes Test	—	—	USP <202>
Appearance	—	Clear, colorless liquid	—	—	Visual
Identification	—	Passes Test	—	—	USP <197>
Identification By Gc	—	Passes Test	—	—	GC
Limit Of Diisopropyl Ether	—	Passes Test	—	—	USP <467>

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

### PHYSICAL & CHEMICAL PROPERTIES

<b>Appearance</b>	Clear, colorless liquid	<b>Odor</b>	Characteristic alcohol odor
<b>Form</b>	Liquid	<b>Boiling Point</b>	Not characterized for the solution
<b>Melting / Freezing Point</b>	Not characterized for the solution	<b>Flash Point</b>	12°C (53.6°F)
<b>Specific Gravity</b>	0.877	<b>Solubility</b>	Soluble in water, alcohol, ether, and many other organic solvents
<b>Molecular Formula</b>	C <sub>3</sub> H <sub>8</sub> O	<b>Molecular Weight</b>	60.10 g/mol
<b>Vapor Pressure (20°C)</b>	33 mmHg	<b>Viscosity (25°C)</b>	2.07 cP
<b>Refractive Index (20°C)</b>	1.377	<b>Density (25°C)</b>	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 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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