

PRODUCT IDENTIFICATION



Product Name: Isopropyl Alcohol 50% USP Grade

CAS Number: 67-63-0

Molecular Formula: C₃H₈O

Molecular Weight: 60.10 g/mol

Grade: USP Grade

Purity / Concentration: 50%

Synonyms: Not Available

PRODUCT OVERVIEW

Alliance Chemical offers high-quality Isopropyl Alcohol 50% USP Grade, a clear, colorless liquid formulated for versatile industrial and laboratory applications. This solution provides a consistent 50% concentration, ensuring reliability for your specific processes and sanitization needs.

Grade Significance: USP Grade signifies that the product meets the stringent quality standards set by the United States Pharmacopeia, ensuring consistency and purity for your sensitive applications.

CERTIFICATE OF ANALYSIS — TYPICAL VALUES

Certificate of Analysis data not available for this product.

PHYSICAL & CHEMICAL PROPERTIES

Appearance	Clear, colorless liquid with mild alcohol odor	Form	Liquid
Boiling Point	82°C (180°F)	Melting / Freezing Point	-89°C (-128°F)
Flash Point	12°C (pure)	Specific Gravity	0.91
Solubility	Fully miscible with water	Molecular Formula	C ₃ H ₈ O
Molecular Weight	60.10 g/mol		

APPLICATIONS

- Laboratory Research** — Used as a reliable solvent for cleaning laboratory glassware and preparing surfaces for sensitive experiments.
- Pharmaceutical Manufacturing** — Utilized as a high-purity processing aid or solvent in the production of various pharmaceutical compounds.
- Industrial Cleaning** — Effective for light-duty surface degreasing and cleaning in facilities where a controlled alcohol concentration is required.
- Cosmetic Formulation** — Serves as an ingredient in personal care products where a lower concentration of alcohol is necessary for stability and efficacy.

STORAGE & HANDLING

Proper storage is critical because this product is highly flammable, with a low flash point that poses a significant fire risk if exposed to heat or sparks. Containers must be kept tightly sealed in a cool, well-ventilated area to prevent the accumulation of flammable vapors and protect against accidental ignition.

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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