

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

Isopropyl Alcohol 50% USP Grade is a high-quality, clear, and colorless solvent formulated for consistent performance in controlled environments. This 50% concentration provides an effective balance for general industrial and laboratory applications requiring precise chemical standards.

Grade Significance: USP Grade signifies that this product meets the rigorous standards of the United States Pharmacopeia, ensuring consistent purity and quality control for 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 glassware and preparing surfaces for sensitive experiments.
- Manufacturing** — Functions as a versatile degreasing agent for machinery components and precision parts.
- Pharmaceuticals** — Utilized in the processing and sanitization of production equipment to maintain strict facility hygiene.
- Electronics** — Applied for the safe removal of residues and contaminants from non-sensitive electronic surfaces.
- Education** — Serves as a standard chemical reagent for educational laboratory demonstrations and basic chemical testing.

STORAGE & HANDLING

Proper storage is critical because this product is a highly flammable liquid that poses significant fire risks if exposed to heat or sparks. Containers must be kept in a cool, well-ventilated area away from ignition sources to prevent the buildup of flammable vapors and ensure worker safety.

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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