

PRODUCT IDENTIFICATION



Product Name: Isopropyl Alcohol 50% Technical Grade

CAS Number: 67-63-0

Molecular Formula: C₃H₈O

Molecular Weight: 60.10 g/mol

Grade: Technical Grade

Purity / Concentration: 50%

Synonyms: Not Available

PRODUCT OVERVIEW

Isopropyl Alcohol 50% Technical Grade is a clear, colorless solvent formulated for effective cleaning and industrial utility. With a concentration of 50% active IPA, this product serves as a reliable solution for general-purpose applications requiring controlled volatility and solvency.

Grade Significance: Technical Grade signifies that the product is manufactured for general industrial or commercial use where high-purity pharmaceutical standards are not required. This grade offers a cost-effective solution for non-clinical applications while maintaining consistent performance.

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

- Industrial Cleaning** — Utilized as a surface degreaser to remove light oils and residues from machinery parts. Its controlled evaporation rate makes it ideal for maintaining equipment cleanliness.
- Laboratory Research** — Serves as a standard solvent for benchtop cleaning and disinfecting laboratory surfaces. It helps maintain a sterile environment by effectively removing non-polar contaminants.
- Manufacturing** — Used as a process solvent in the production of various chemical formulations. It acts as a thinning agent to ensure proper viscosity during manufacturing cycles.
- Automotive** — Functions as a glass cleaner and surface preparation agent before the application of adhesives or coatings. It ensures a streak-free finish by removing stubborn grime.

STORAGE & HANDLING

Due to its high flammability and potential for vapor accumulation, this product must be stored in a cool, well-ventilated area away from ignition sources. Proper containment prevents the buildup of hazardous vapors that can cause dizziness or respiratory irritation, ensuring a safe working environment.

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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