

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 versatile, clear, and colorless solvent designed for general industrial and laboratory applications. With a specific gravity of 0.91, this aqueous solution provides a balanced concentration for various cleaning and processing tasks.

Grade Significance: Technical Grade indicates that this product is manufactured for industrial and commercial utility where high-purity standards are not required, providing a cost-effective solution for general tasks.

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	≥ 18.3 °C (65 °F), closed cup — bounded by the 70 % solution; an aqueous solution flashes higher as it is diluted. Class 3, PG II	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 general-purpose solvent for removing light oils, greases, and residues from non-sensitive equipment surfaces.
- Laboratory Research** — Serves as a standard reagent or cleaning agent for glass and plastic laboratory apparatus where high purity is not required.
- Manufacturing** — Used in various production environments as a diluent or carrier for chemical formulations that require a stable, water-based alcohol solvent.
- Automotive Maintenance** — Applied for surface preparation and degreasing of components prior to painting, coating, or assembly processes.

STORAGE & HANDLING

Due to its flash point of 18.3 °C, this product is classified as a flammable liquid and must be stored in a cool, well-ventilated area away from ignition sources. Proper containment is essential to prevent the accumulation of flammable vapors and to ensure compliance with fire safety regulations.

AVAILABLE PACKAGING

- 1 Quart
- 1 Gallon
- 5 Gallon
- 15 Gallon
- 55 Gallon
- 275 Gallon
- 330 Gallon

SAFETY SUMMARY (CROSS-REFERENCE TO SDS)

Signal Word: Warning



Hazard Statements:

- H226: Flammable liquid and vapor

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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