

PRODUCT IDENTIFICATION



Product Name: Isopropyl Alcohol 99% - Technical Grade

CAS Number: 67-63-0

Molecular Formula: C₃H₈O

Molecular Weight: 60.10 g/mol

Grade: Technical Grade

Purity / Concentration: 99%

Synonyms: Isopropanol, 2-Propanol

PRODUCT OVERVIEW

Isopropyl Alcohol 99% Technical Grade is a high-purity, clear solvent featuring an assay of 99.8% and minimal water content of 0.1%. This volatile liquid is essential for industrial cleaning, chemical synthesis, and pharmaceutical extraction processes.

Grade Significance: Technical Grade provides a cost-effective, high-purity solution specifically balanced for industrial and manufacturing requirements where laboratory-grade analytical precision is not strictly required.

CERTIFICATE OF ANALYSIS — TYPICAL VALUES

PARAMETER	UNIT	TYPICAL	MIN	MAX	TEST METHOD
Assay Gc	%	99	98.5	99.5	GC
Color (APHA)	APHA	3	0	5	APHA
Specific Gravity (20°C)	g/mL	0.7866	—	—	Hydrometer @ 25°C
Residue On Evaporation	ppm	2	0	10	Evaporation
Water Karl Fischer	%	0.0040	—	0.1	Karl Fischer
Acidity As Acetic	ppm	10	0	20	Titration

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

PHYSICAL & CHEMICAL PROPERTIES

Appearance	Clear, volatile liquid with high transparency	Odor	Characteristic alcohol odor
Form	Liquid	Boiling Point	180.5 °F at 760 mmHg (NTP, 1992)
Melting / Freezing Point	-127.3 °F (NTP, 1992)	Flash Point	53 °F (NTP, 1992)
Solubility	Highly miscible with water, alcohols, many solv...	Molecular Formula	C ₃ H ₈ O
Molecular Weight	60.10 g/mol	Vapor Pressure (20°C)	33.5 mmHg
Viscosity (25°C)	0.88 cP	Refractive Index (20°C)	1.377
Density (25°C)	0.786 g/mL		

APPLICATIONS

1. **Pharmaceuticals** — Utilized as a high-efficiency solvent for the extraction of active pharmaceutical ingredients from raw materials.
2. **Analytical Chemistry** — Serves as a reliable mobile phase component in reversed-phase chromatography for the accurate separation of organic compounds.
3. **Manufacturing** — Used extensively for precision cleaning and degreasing of components to ensure optimal surface preparation.
4. **Cosmetics** — Functions as a versatile solvent base in various topical formulations and personal care product manufacturing.

STORAGE & HANDLING

Due to its flash point of 12°C, this chemical is highly flammable and must be stored in a cool, well-ventilated area away from ignition sources. Proper containment prevents the buildup of dangerous vapors and ensures compliance with safety protocols regarding flammable liquids.

- Store in a cool, well-ventilated area away from heat sources.
- Use containers made of HDPE or glass to prevent chemical reactions.
- Keep away from strong oxidizers and acids to avoid hazardous reactions.
- Ensure proper personal protective equipment (PPE) is worn during handling, including gloves and goggles.

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.

Alliance Chemical | 204 South Edmond St, Taylor, Texas 76574 | 512-365-6838 | www.alliancechemical.com

Disclaimer: The information contained herein is believed to be accurate and represents the best information currently available to us. However, Alliance Chemical makes no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes.