

PRODUCT IDENTIFICATION



Product Name: Mineral Spirits - Odorless Solvent & Thinner Technical Grade

CAS Number: 64742-47-8

Molecular Formula: Primarily C₉-C₁₅ hydrocarbons

Molecular Weight: 134-170 g/mol

Grade: Technical Grade

Purity / Concentration: C9-C15 Cycloalkanes: 60-100% C9-C15 Alkanes: 15-40

Synonyms: Odorless Mineral Spirits, Paint Thinner

PRODUCT OVERVIEW

Alliance Chemical offers high-quality Technical Grade Odorless Mineral Spirits, a versatile solvent formulated for consistent performance in thinning and cleaning applications. With a low aromatic content of 0.3% and a specific gravity of 0.76 g/mL at 20°C, this colorless liquid provides a reliable, low-odor solution for industrial and professional tasks.

Grade Significance: Technical Grade indicates that this product is manufactured to meet consistent industrial standards for performance and purity, ensuring reliability for professional applications where high-grade chemical consistency is required.

CERTIFICATE OF ANALYSIS — TYPICAL VALUES

PARAMETER	UNIT	TYPICAL	MIN	MAX	TEST METHOD
Specific Gravity (20°C)	g/mL	0.76	0.758	0.762	Hydrometer @ 20°C
Aromatics	%	0.3	—	1	Per specification
Flash Point	°C	≥ 38 °C	—	—	Per specification

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

PHYSICAL & CHEMICAL PROPERTIES

Appearance	Colorless liquid	Odor	Mild, characteristic solvent odor
Form	Liquid	Boiling Point	158°C (316.4°F)
Melting / Freezing Point	-58°C (-72.4°F)	Flash Point	42°C (107.6°F)
Specific Gravity	0.8	Solubility	Very slightly soluble in water (1.5 g/L)
Molecular Formula	Primarily C ₉ -C ₁₅ hydrocarbons	Molecular Weight	134-170 g/mol
Vapor Pressure (20°C)	0.5 mmHg	Viscosity (25°C)	0.9 cP
Refractive Index (20°C)	1.460	Density (25°C)	0.790 g/mL
Decomposition Temp.	Note: Not normally subject to decomposition in normal use; decomposition not applicable		

APPLICATIONS

1. **Professional Painting** — Acts as an effective thinner for oil-based paints and varnishes to achieve the ideal consistency for smooth application.
2. **Tool Maintenance** — Reliably cleans brushes, rollers, and application tools to remove stubborn oil-based residues and extend equipment lifespan.
3. **Automotive and Industrial** — Provides powerful degreasing capabilities for removing heavy grease and oil deposits from mechanical parts and machinery.
4. **Adhesive Manufacturing** — Functions as a stable solvent base for the formulation and thinning of various industrial adhesives and sealants.
5. **Surface Preparation** — Ensures clean, residue-free surfaces by removing contaminants before painting or coating processes.

STORAGE & HANDLING

Due to its classification as a flammable liquid with a flash point of 38°C, this product must be stored in a cool, well-ventilated area away from heat, sparks, or open flames. Proper containment is critical to prevent the accumulation of flammable vapors and to comply with safety regulations regarding hazardous materials.

- Store in a cool, dry place away from heat sources and open flames.
- Use containers made of HDPE or glass to prevent chemical reactions.
- Ensure proper ventilation when using to minimize inhalation exposure.
- Avoid contact with strong oxidizing agents and acids.
- Wear appropriate personal protective equipment (PPE) such as gloves and goggles.

AVAILABLE PACKAGING

- 1 Quart
- 1 Gallon
- 5 Gallon
- 15 Gallon
- 55 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.

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

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