

PRODUCT IDENTIFICATION



Product Name: Mineral Spirits - Odorless Solvent & Thinner

CAS Number: 64742-47-8

Molecular Formula: Primarily C₉-C₁₅ hydrocarbons

Molecular Weight: 134-170 g/mol

Grade: Technical

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

Synonyms: Odorless Mineral Spirits, Paint Thinner

PRODUCT OVERVIEW

Alliance Chemical offers high-purity Technical grade Odorless Mineral Spirits, a versatile hydrocarbon solvent featuring a low aromatics content of 0.5% and a low color profile of 5 APHA. This colorless liquid is ideal for thinning oil-based coatings and precision cleaning where minimal odor and consistent evaporation are required.

Grade Significance: Technical grade indicates that this product is manufactured to meet consistent industrial standards for purity and performance, ensuring reliable results for common solvent applications without the need for high-cost analytical grade specifications.

CERTIFICATE OF ANALYSIS — TYPICAL VALUES

PARAMETER	UNIT	TYPICAL	MIN	MAX	TEST METHOD
Color (APHA)	APHA	5	—	15	ASTM D1209
Specific Gravity (20°C)	g/mL	0.765	—	—	ASTM D4052
Water Content	%	0.01	—	0.05	ASTM D1364
Copper Corrosion	Pass/Fail	Pass	—	—	ASTM D130
Aromatics Content	%	0.5	—	1	ASTM D1319
Distillation Dry Point	°C	200.0	—	—	ASTM D86
Distillation Initial Boiling Point	°C	155.0	—	—	ASTM D86
Sulfur	ppm	1	—	5	ASTM D5623

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** — Used to effectively thin oil-based paints and varnishes, ensuring smoother application and better consistency for professional finishes.
2. **Tool Maintenance** — An excellent solvent for cleaning brushes, spray equipment, and tools, quickly dissolving residual paint and protective coatings.
3. **Automotive & Mechanical** — Utilized for degreasing mechanical parts and removing stubborn oil or grease buildup from engine components.
4. **Adhesive Manufacturing** — Serves as a reliable carrier solvent for various adhesives and sealants, providing consistent performance during formulation.

STORAGE & HANDLING

Due to its flash point of 42°C, this product is classified as a flammable liquid and vapor, requiring storage in a cool, well-ventilated area away from heat sources or open flames. Proper containment prevents the accumulation of flammable vapors and ensures the long-term chemical stability of the solvent.

- 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.

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