

## PRODUCT IDENTIFICATION



**Product Name:** VM&P Naphtha  
**CAS Number:** 64742-89-8  
**Molecular Formula:** C<sub>5</sub>-C<sub>11</sub> Hydrocarbons  
**Molecular Weight:** 120 g/mol  
**Grade:** Laboratory Grade  
**Purity / Concentration:** Not Available  
**Synonyms:** Varnish Maker's and Painter's Naphtha, VM Naphtha

## PRODUCT OVERVIEW

Alliance Chemical's Laboratory Grade VM&P Naphtha is a clear, colorless liquid, boasting a high assay of 98.5%. This versatile solvent is primarily used in paint formulations to enhance flow and application, as well as for cleaning and extraction purposes. Its controlled purity and properties make it suitable for laboratory and industrial applications.

**Grade Significance:** Laboratory Grade signifies that this VM&P Naphtha has been manufactured and tested to meet stringent quality standards, ensuring its suitability for precise analytical and research applications where purity and consistency are paramount.

## CERTIFICATE OF ANALYSIS — TYPICAL VALUES

PARAMETER	UNIT	TYPICAL	MIN	MAX	TEST METHOD
Assay (wt%)	%	98.5	95	—	GC-FID
Color (APHA)	APHA	10	—	15	ASTM D1209
Specific Gravity (20°C)	g/mL	0.725	0.72	0.735	ASTM D4052
Residue After Ignition	%	0.0005	—	0.0010	ASTM D482
Water Content	%	0.01	—	0.05	ASTM D6304
Sulfur	ppm	5	—	10	ASTM D5453

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

## PHYSICAL & CHEMICAL PROPERTIES

<b>Appearance</b>	Clear, colorless liquid	<b>Form</b>	Liquid
<b>Boiling Point</b>	146°C (295°F)	<b>Melting / Freezing Point</b>	-60°C
<b>Flash Point</b>	4°C (39°F)	<b>Specific Gravity</b>	0.75
<b>Solubility</b>	Insoluble in water, soluble in organic solvents	<b>Molecular Formula</b>	C <sub>5</sub> -C <sub>11</sub> Hydrocarbons
<b>Molecular Weight</b>	120 g/mol		

## APPLICATIONS

- 1. Paint and Coatings** — VM&P Naphtha serves as an effective solvent in paint formulations, improving flow, leveling, and overall application characteristics. Its controlled evaporation rate contributes to a smooth, even finish.
- 2. Industrial Cleaning** — This solvent is widely used for cleaning tools, equipment, and surfaces in various industrial settings. Its solvency power effectively removes grease, oil, and other contaminants.
- 3. Chemical Extraction** — VM&P Naphtha is employed in the extraction of organic compounds from mixtures. Its selectivity and ability to dissolve specific compounds make it a valuable tool in chemical processing.
- 4. Adhesives** — In adhesive formulations, VM&P Naphtha acts as a solvent to enhance bonding properties. It ensures proper viscosity and wetting of surfaces for strong and durable adhesion.
- 5. Laboratory Research** — Due to its controlled purity and consistent properties, Laboratory Grade VM&P Naphtha is suitable for various research applications. It can be used as a solvent, reagent, or component in experiments.
- 6. Printing Inks** — VM&P Naphtha can be used as a solvent in printing inks, helping to control viscosity and drying time. This ensures consistent ink transfer and print quality.

## STORAGE & HANDLING

Proper storage of VM&P Naphtha is crucial due to its flammability (flash point of 4°C). It should be stored in a cool, dry, well-ventilated area, away from heat, sparks, and open flames. This minimizes the risk of fire and ensures the safety of personnel and property.

- Store in a cool, well-ventilated area away from heat sources.
- Use containers made of HDPE or glass to prevent chemical reactions.
- Avoid contact with strong oxidizing agents and acids.
- Ensure proper PPE, including gloves and goggles, are worn during handling.
- Keep away from open flames and sparks due to flammability.

## 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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