

PRODUCT IDENTIFICATION



Product Name: VM&P Naphtha Technical Grade

CAS Number: 64742-89-8

Molecular Formula: C₅-C₁₁ Hydrocarbons

Molecular Weight: 120 g/mol

Grade: Technical Grade

Purity / Concentration: Not Available

Synonyms: Varnish Maker's and Painter's Naphtha, VM Naphtha

PRODUCT OVERVIEW

VM&P Naphtha Technical Grade is a highly refined, clear, and colorless hydrocarbon solvent characterized by its low sulfur content of 5 ppm and a purity level of 98.5%. This volatile liquid is widely utilized in industrial applications requiring precise evaporation rates and consistent solubility profiles.

Grade Significance: Technical Grade indicates that this product is manufactured to meet consistent industrial standards for purity and performance, ensuring it is suitable for commercial processes where cost-effective reliability is required.

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	0.75	—	—	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

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

APPLICATIONS

1. **Coatings and Paints** — Used as a high-performance solvent to improve flow, leveling, and application properties in various paint formulations.
2. **Industrial Cleaning** — Serves as an effective degreasing agent for cleaning tools, machinery, and equipment in demanding industrial environments.
3. **Chemical Processing** — Utilized in the extraction of organic compounds from complex mixtures, leveraging its specific boiling point range.
4. **Adhesive Manufacturing** — Acts as a carrier solvent in adhesive formulations to ensure proper viscosity and enhance bonding characteristics during application.

STORAGE & HANDLING

Due to its low flash point of 4°C, VM&P Naphtha is classified as a flammable liquid and must be stored in a cool, well-ventilated area away from all ignition sources. Proper containment is critical to prevent the buildup of flammable vapors and to ensure compliance with stringent safety and fire prevention standards.

- 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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