

PRODUCT IDENTIFICATION



Product Name: Petroleum Ether Technical Grade

CAS Number: 8032-32-4

Molecular Formula: C₅-C₁₂ Hydrocarbons

Molecular Weight: Not Available g/mol

Grade: Technical Grade

Purity / Concentration: Not Available

Synonyms: Petroleum Ether, Ligroin

PRODUCT OVERVIEW

Petroleum Ether Technical Grade is a high-purity hydrocarbon solvent, characterized by its low non-volatile residue of 0.1 mg/100mL and an assay of 99.98%. This clear, colorless liquid is essential for precision extraction and cleaning processes where solvent consistency is critical.

Grade Significance: Technical Grade signifies that this product is manufactured to meet consistent industrial standards suitable for general manufacturing and extraction processes. It provides an economical balance of purity and performance for non-laboratory specific applications.

CERTIFICATE OF ANALYSIS — TYPICAL VALUES

PARAMETER	UNIT	TYPICAL	MIN	MAX	TEST METHOD
Assay Gc Fid	%	99.98	95	100.0	GC-FID
Specific Gravity (20°C)	g/mL	0.6397	0.62	0.66	Hydrometer @ 20°C
Non Volatile Residue	mg/100mL	0.1	—	—	ASTM D1353
Non-Volatile Residue	%	0.1	0	1	Residue on Ignition
Water Karl Fischer	%	0.0064	—	—	ASTM E203 / ISO 6296

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

PHYSICAL & CHEMICAL PROPERTIES

Appearance	Clear, colorless liquid	Odor	Characteristic petroleum odor
Form	Liquid	Boiling Point	30°C (86°F)
Flash Point	-18°C (-0.4°F)	Specific Gravity	0.64
Solubility	Soluble in organic solvents	Molecular Formula	C ₅ -C ₁₂ Hydrocarbons
Vapor Pressure (20°C)	97 mmHg	Viscosity (25°C)	0.4 cP
Refractive Index (20°C)	1.375	Density (25°C)	0.700 g/mL

APPLICATIONS

1. **Pharmaceuticals** — Utilized as a high-efficiency solvent for the extraction of active ingredients from plant materials during the formulation process.
2. **Industrial Maintenance** — Acts as a powerful cleaning agent capable of removing oils, greases, and contaminants from sensitive machinery and equipment.
3. **Analytical Chemistry** — Serves as a reliable mobile phase component in high-performance liquid chromatography applications for accurate material separation.
4. **Paints and Coatings** — Used as a specialized solvent to precisely adjust the viscosity of paints and coatings for consistent application performance.

STORAGE & HANDLING

Due to its low flash point of -18°C, this solvent is highly flammable and must be stored in a cool, well-ventilated area away from ignition sources. Proper containment prevents the accumulation of hazardous vapors and ensures the integrity of the chemical by minimizing exposure to heat.

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

AVAILABLE PACKAGING

- 1 Liter
- 5 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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