

### PRODUCT IDENTIFICATION



**Product Name:** Petroleum Ether Technical Grade

**CAS Number:** 8032-32-4

**Molecular Formula:** C<sub>5</sub>-C<sub>12</sub> 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, clear solvent consisting of a mixture of C5-C12 hydrocarbons. With a low water content of 0.01% and a minimal residue after ignition of 0.0005%, this product is engineered for consistent performance in industrial extraction and cleaning applications.

**Grade Significance:** Technical Grade indicates a product manufactured for industrial and commercial use where efficiency and cost-effectiveness are prioritized over the stringent requirements of laboratory-grade analytical standards.

### CERTIFICATE OF ANALYSIS — TYPICAL VALUES

PARAMETER	UNIT	TYPICAL	MIN	MAX	TEST METHOD
Assay (wt%)	%	98.5	95	—	GC-FID
Color (APHA)	APHA	10	—	20	ASTM D1209
Specific Gravity (20°C)	g/mL	0.655	0.64	0.68	ASTM D4052
Residue After Ignition	%	0.0005	—	0.0010	USP <281>
Water Content	%	0.01	—	0.05	ASTM E203
Sulfur	ppm	1	—	5	ASTM D5623

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

### PHYSICAL & CHEMICAL PROPERTIES

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

## APPLICATIONS

1. **Pharmaceutical** — It is used for the precise extraction of active ingredients from plant materials to create high-quality pharmaceutical formulations.
2. **Industrial Maintenance** — This solvent serves as an effective cleaning agent for removing heavy oils and greases from machinery and precision equipment.
3. **Analytical Chemistry** — It is commonly utilized as a mobile phase component in high-performance liquid chromatography to ensure accurate analytical results.
4. **Paints and Coatings** — The product acts as a reliable solvent in the formulation of paints and coatings, allowing for precise adjustments to viscosity.

## STORAGE & HANDLING

Due to its extremely low flash point of  $-18^{\circ}\text{C}$ , Petroleum Ether is highly flammable and must be stored in a cool, well-ventilated area away from all ignition sources. Proper containment prevents the accumulation of hazardous 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.
- 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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