

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, 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 Gc Fid	%	99.98	95	100.0	GC-FID
Specific Gravity (20°C)	g/mL	0.6397	—	—	Hydrometer @ 25°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. **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°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: **DANGER**



Hazard Statements:

- H225: Highly flammable liquid and vapor
- H319: Causes serious eye irritation

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.

Alliance Chemical | 204 South Edmond St, Taylor, Texas 76574 | 512-365-6838 | www.alliancechemical.com

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