

PRODUCT IDENTIFICATION



Product Name: Petroleum Ether ACS Reagent Grade

CAS Number: 8032-32-4

Molecular Formula: C₅-C₆ Hydrocarbons

Molecular Weight: Not Available g/mol

Grade: Reagent Grade

Purity / Concentration: Not Available

Synonyms: Petroleum Ether, Petroleum Spirit

PRODUCT OVERVIEW

Alliance Chemical offers high-purity Petroleum Ether ACS Reagent Grade, a clear and colorless solvent ideal for precise laboratory and industrial applications. This product features a high assay of 99.8% and minimal residue levels, ensuring consistent performance for sensitive analytical procedures.

Grade Significance: Reagent Grade certification guarantees that the product meets the stringent quality standards set by the American Chemical Society, providing the reliability necessary for reproducible experimental results.

CERTIFICATE OF ANALYSIS — TYPICAL VALUES

PARAMETER	UNIT	TYPICAL	MIN	MAX	TEST METHOD
Assay (wt%)	%	99.8	—	—	GC-FID
Color (APHA)	APHA	5	—	10	ASTM D1209
Specific Gravity (20°C)	g/mL	0.645	—	—	ASTM D4052
Residue After Ignition	%	0.0005	—	0.0010	Gravimetric
Water Content	%	0.0050	—	0.01	Karl Fischer
Acidity	—	Passes Test	—	—	ACS Method
Sulfur Compounds	—	Passes Test	—	—	ACS Method

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

PHYSICAL & CHEMICAL PROPERTIES

Appearance	Clear, colorless liquid	Form	Liquid
Boiling Point	35°C (95°F)	Flash Point	-18°C (-0.4°F)
Solubility	Soluble in organic solvents, insoluble in water	Molecular Formula	C ₅ -C ₆ Hydrocarbons

APPLICATIONS

1. **Analytical Chemistry** — Used as a primary solvent in liquid-liquid extractions for the isolation of organic compounds from aqueous samples.
2. **Pharmaceutical Manufacturing** — Utilized in the purification and crystallization processes of active pharmaceutical ingredients where low residue is critical.
3. **Petrochemical Testing** — Employed as a standard solvent in laboratory analysis for determining the composition of fuel additives and hydrocarbon blends.
4. **Material Science** — Acts as a cleaning agent for precision instrumentation and delicate components requiring a non-residue-forming solvent.
5. **Research and Development** — Serves as a versatile non-polar solvent for various synthetic organic chemistry reactions and chromatography applications.

STORAGE & HANDLING

Due to its extremely low flash point of -18°C , this liquid 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 integrity of the chemical composition over time.

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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