

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

Petroleum Ether ACS Reagent Grade is a high-purity solvent consisting of a mixture of C5-C6 hydrocarbons, ideal for precise laboratory and industrial applications. With an exceptional assay of 99.98% and extremely low residue levels of 3 ppm, it ensures consistent performance in sensitive analytical procedures.

Grade Significance: Reagent Grade indicates that the product meets or exceeds the strict standards set by the American Chemical Society, ensuring it is suitable for demanding laboratory use and analytical testing.

CERTIFICATE OF ANALYSIS — TYPICAL VALUES

PARAMETER	UNIT	TYPICAL	MIN	MAX	TEST METHOD
Assay Gc Fid	%	99.98	98.5	100.5	GC-FID
Color (APHA)	APHA	5	—	10	ASTM D1209
Specific Gravity (20°C)	g/mL	0.6388	0.6069	0.663	Hydrometer @ 20°C
Residue On Evaporation	ppm	3	—	10	Evaporation
Water Karl Fischer	%	0.0030	—	0.01	ASTM E203 / ISO 6296
Distillation Range	°C	35 – 60 °C	—	—	ASTM D1078
Sulfur	%	0.0009	—	0.0030	Per specification

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 high-purity solvent for extraction and chromatography processes where background interference must be minimized.
2. **Pharmaceutical Manufacturing** — Serves as a critical solvent in the synthesis and purification of active pharmaceutical ingredients.
3. **Industrial Cleaning** — Utilized for precision degreasing of delicate electronic components and laboratory glassware due to its rapid evaporation rate.
4. **Petrochemical Testing** — Employed as a standardized reagent for testing and analyzing petroleum-based products in quality control laboratories.
5. **Adhesive Production** — Acts as an effective volatile carrier for specialized adhesives and coatings requiring quick drying times.

STORAGE & HANDLING

Due to its extremely low flash point of -18°C , this chemical 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 solvent by minimizing exposure to air and moisture.

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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