

N-Pentane is an extremely low-boiling (35.9°C / 96.6°F), highly flammable alkane solvent. Its very low flash point (-49°C) means it ignites at well below room temperature. Commonly used as a non-polar extraction solvent, reference fuel component, and laboratory solvent. Aspiration hazard — do not induce vomiting if swallowed.

SECTION 1: PRODUCT IDENTIFICATION

Product Name	N-Pentane
CAS Number	109-66-0
Molecular Formula	C5H12 MW: 72.15 g/mol
GHS Signal Word	DANGER
Key Hazards	H225: Highly flammable. H304: Aspiration hazard. H336: Drowsiness/dizziness. H411: Aquatic toxicity.
UN Number	UN1265
DOT Classification	Class 3, PG II
Supplier	Cannagas Supply 97 Turnpike Rd, Westborough, MA 01581 877-710-1965 Sales@canna-gas.com

SECTION 2: PHYSICAL & CHEMICAL PROPERTIES

Physical State	Clear, colorless liquid	Density	0.626 g/mL at 20°C
Boiling Point	35.9°C (96.6°F)	Solubility	Practically insoluble (38.5 mg/L)
Flash Point	-49°C (-56°F)	Vapor Density	2.49 (air=1)
Auto-ignition	260°C (500°F)	Log Kow	3.39
Vapor Pressure	573 hPa at 20°C	Evaporation Rate	>>1 (very fast)
LEL / UEL	1.4% / 8.3% in air	H411	Aquatic toxicity

SECTION 3: APPLICATIONS & USAGE

Extraction Solvent	Non-polar extraction solvent for lipids, waxes, and non-polar compounds.
Laboratory Use	HPLC mobile phase component; column chromatography solvent.
Reference Fuel	Component in reference fuel formulations (e.g., ASTM test fuels).
Boiling Point Use	Low boiling point (35.9°C) enables easy removal by evaporation at room temperature.
NOT Suitable For	Do NOT use near open flames or heat sources. Flash point is -49°C — extremely low.

SECTION 4: STORAGE & HANDLING

Storage	Store in sealed containers in a cool, dry, well-ventilated area in a flammable storage cabinet. Keep away from heat, sparks, and ignition sources.
Containers	Compatible with stainless steel, glass. Avoid copper, aluminum alloys for long-term storage.
Handling	Use in well-ventilated area or fume hood. Eliminate ignition sources. Ground/bond containers during transfer to prevent static.

Shelf Life Minimum 2 years in original sealed containers stored per above conditions.

SECTION 5: SAFETY SUMMARY

■ **SAFETY NOTE: EXTREMELY FLAMMABLE:** Flash point -49°C (-56°F) — ignites well below room temperature. Do not use near any heat source, open flame, or sparks. Vapors heavier than air — may accumulate in low areas.

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SDS Reference Full SDS available. CHEMTREC: 1-800-424-9300.

DISCLAIMER: The information provided in this Technical Data Sheet is based on data believed to be accurate as of the issue date. Cannagas Supply makes no warranty regarding fitness for a particular purpose or accuracy of the information herein. Users are responsible for determining suitability for their specific application. Always refer to the Safety Data Sheet (SDS) for complete safety and regulatory information.