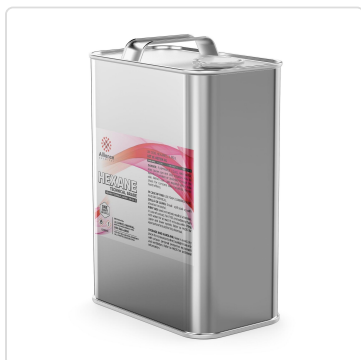


PRODUCT IDENTIFICATION



Product Name: Hexane Technical Grade

CAS Number: 110-54-3

Molecular Formula: C₆H₁₄

Molecular Weight: 86.18 g/mol

Grade: Technical Grade

Purity / Concentration: Not Available

Synonyms: n-Hexane, Hexyl hydride

PRODUCT OVERVIEW

Hexane Technical Grade is a clear, high-purity solvent characterized by a 96.5% assay and minimal impurity levels, including a water content of just 0.0080%. This versatile hydrocarbon is widely utilized as an efficient extraction agent for essential oils and pharmaceutical ingredients due to its consistent physical properties.

Grade Significance: Technical Grade provides a cost-effective solution for industrial and manufacturing processes where high performance is required but analytical-grade purity is not strictly necessary.

CERTIFICATE OF ANALYSIS — TYPICAL VALUES

PARAMETER	UNIT	TYPICAL	MIN	MAX	TEST METHOD
Assay Gc Fid	%	98.5	95	—	GC-FID
Color (APHA)	APHA	30	30	60	ASTM D1209
Specific Gravity (20°C)	g/mL	0.676	0.659	0.7098	Hydrometer @ 25°C

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

PHYSICAL & CHEMICAL PROPERTIES

Appearance	Clear, colorless liquid	Odor	Characteristic hydrocarbon odor
Form	Liquid	Boiling Point	156 °F at 760 mmHg (NTP, 1992)
Melting / Freezing Point	-139 °F (NTP, 1992)	Flash Point	-9.4 °F (NTP, 1992)
Specific Gravity	0.654	Solubility	Soluble in organic solvents, insoluble in water
Molecular Formula	C ₆ H ₁₄	Molecular Weight	86.18 g/mol
Vapor Pressure (20°C)	160 mmHg	Viscosity (25°C)	0.36 cP
Refractive Index (20°C)	1.375	Density (25°C)	0.660 g/mL

APPLICATIONS

- Pharmaceuticals** — Used as a primary solvent for the extraction and purification of active pharmaceutical ingredients.
- Manufacturing** — Serves as a high-performance degreasing agent for cleaning precision metal parts and industrial machinery.
- Laboratory Analysis** — Functions as a reliable mobile phase component in high-performance liquid chromatography applications.
- Chemical Synthesis** — Acts as a critical intermediate in the synthesis of various specialty chemicals and complex organic compounds.
- Food and Fragrance** — Utilized in the extraction process to isolate high-quality essential oils from botanical sources.

STORAGE & HANDLING

Due to its high flammability and low flash point of -22°C, Hexane must be stored in a cool, well-ventilated area away from all ignition sources. Proper containment is essential to prevent the accumulation of vapors, which poses a significant fire risk and potential inhalation hazard.

- Store in a cool, well-ventilated area away from heat sources and open flames.
- Use containers made of HDPE or glass to prevent chemical reactions.
- Keep away from strong oxidizers and acids to avoid hazardous reactions.
- Ensure proper PPE, including gloves and goggles, are worn during handling.
- Avoid prolonged exposure to air to minimize oxidation.

AVAILABLE PACKAGING

- 1 Quart
- 1 Gallon
- 5 Gallon
- 55 Gallon

SAFETY SUMMARY (CROSS-REFERENCE TO SDS)

Signal Word: **Danger**



Hazard Statements:

- H225: Highly Flammable liquid and vapor [Danger Flammable liquids]
- H304: May be fatal if swallowed and enters airways [Danger Aspiration hazard]
- H315: Causes skin irritation [Warning Skin corrosion/irritation]
- H336: May cause drowsiness or dizziness [Warning Specific target organ toxicity, single exposure; Narcotic effects]
- H361f ***: Suspected of damaging fertility [Warning Reproductive toxicity]
- H372: Causes damage to organs through prolonged or repeated exposure [Danger Specific target organ toxicity, repeated exposure]
- H411: Toxic to aquatic life with long lasting effects [Hazardous to the aquatic environment, long-term hazard]

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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