

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 featuring an assay of 98.5% and a specific gravity of 0.676 g/mL. This versatile liquid is primarily utilized for chemical synthesis, industrial extraction, and precision cleaning applications.

Grade Significance: Technical Grade signifies that this product is formulated for industrial and manufacturing applications where performance and cost-effectiveness are prioritized over the strict purity standards of laboratory reagent grades.

CERTIFICATE OF ANALYSIS — TYPICAL VALUES

PARAMETER	UNIT	TYPICAL	MIN	MAX	TEST METHOD
Assay Gc Fid	%	98.5	95	100.5	GC-FID
Color (APHA)	APHA	30	30	60	ASTM D1209
Specific Gravity (20°C)	g/mL	0.676	0.659	0.7098	Hydrometer @ 20°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 high-efficiency solvent for the extraction and processing of active pharmaceutical ingredients.
- Essential Oils** — Acts as an effective solvent for the extraction of botanical oils and aromatic compounds from plant materials.
- Industrial Manufacturing** — Functions as a powerful degreasing agent for cleaning metal parts and heavy machinery in factory environments.
- Analytical Chemistry** — Serves as a reliable mobile phase component in high-performance liquid chromatography applications.
- Chemical Synthesis** — Utilized as a foundational intermediate in the synthesis of various specialty chemicals and organic compounds.

STORAGE & HANDLING

Due to its extremely low flash point of -9.4 °F, this chemical must be stored in a cool, well-ventilated area away from all ignition sources to prevent fire hazards. Maintaining proper containment is essential to avoid the risk of inhalation or accidental ingestion, as the liquid poses significant respiratory and skin irritation risks.

- 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 vapour
- H304: May be fatal if swallowed and enters airways
- H315: Causes skin irritation
- H336: May cause drowsiness or dizziness
- H361f: Suspected of damaging fertility
- H373: May cause damage to organs through prolonged or repeated exposure
- H411: Toxic to aquatic life with long lasting effects

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

Disclaimer: The information contained herein is believed to be accurate and represents the best information currently available to us. However, Alliance Chemical makes no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes.