

TECHNICAL DATA SHEET

# Hexane Technical Grade

Technical Grade

CAS NUMBER  
110-54-3

ALLIANCE CODE  
hexane-technical-grade-1

GENERATED  
2026-07-17

## 1. IDENTITY & COMPOSITION

PRODUCT NAME  
Hexane Technical Grade

ALLIANCE CODE  
hexane-technical-grade-1

GRADE  
Technical Grade

CONCENTRATION  
—

CAS NUMBER  
110-54-3 [PubChem](#)

FORMULA  
C6H14 [PubChem](#)

MOLECULAR WEIGHT  
86.18 [PubChem](#)

PRODUCT TYPE  
pure\_substance

## AVAILABLE GRADES SAME CAS, ALTERNATE GRADES AND CONCENTRATIONS

| GRADE                             | CONCENTRATION | TYPICAL ASSAY | SKU                      |
|-----------------------------------|---------------|---------------|--------------------------|
| <b>THIS GRADE</b> Technical Grade | —             | —             | current                  |
| ACS Reagent                       | —             | —             | hexane-acs-reagent-grade |

Typical assay shown is the rolling-window mean from the sibling product's most recent lots. Grade selection drives downstream end-use — verify the sibling grade matches your specification before substitution.

## PHYSICAL & CHEMICAL PROPERTIES

One or more physical-property values are temporarily suppressed pending verification against vendor COA data. For complete properties refer to the Safety Data Sheet (SDS) or contact [sales@alliancechemical.com](mailto:sales@alliancechemical.com).

### FORM

Liquid [Product record](#)

### DENSITY

0.659 at 68 °F (USCG, 1999) – Less dense than water; will float [Product record](#)

### MELTING POINT

–139 °F (NTP, 1992) [Product record](#)

### VAPOR PRESSURE

120 mmHg at 68 °F ; 180 mmHg at 77 °F (NTP, 1992) [Product record](#)

### ODOR

Gasoline-like odor [Product record](#)

### BOILING POINT

156 °F at 760 mmHg (NTP, 1992) [Product record](#)

### FLASH POINT

–9.4 °F (NTP, 1992) [Product record](#)

### SOLUBILITY (WATER)

less than 1 mg/mL at 61.7 °F (NTP, 1992) [Product record](#)

## MATERIALS OF CONSTRUCTION

| MATERIAL                      | RATING                          | MAX T (°C) | NOTES                                                   | SOURCE                                               |
|-------------------------------|---------------------------------|------------|---------------------------------------------------------|------------------------------------------------------|
| Buna-N (NBR)<br>Elastomer     | <a href="#">Good</a>            | 80         | Good for non-aromatic hydrocarbons; poor for aromatics. | <a href="#">Parker O-ring Chemical Compatibility</a> |
| EPDM<br>Elastomer             | <a href="#">Not recommended</a> | —          | Swells in hydrocarbons; never use.                      | <a href="#">Parker O-ring Chemical Compatibility</a> |
| Viton (FKM)<br>Elastomer      | <a href="#">Excellent</a>       | 100        | Standard for hydrocarbon service.                       | <a href="#">Parker O-ring Chemical Compatibility</a> |
| PTFE<br>Fluoropolymer         | <a href="#">Excellent</a>       | 200        | Universal.                                              | <a href="#">Cole-Parmer Chemical Compatibility</a>   |
| 316L Stainless Steel<br>Metal | <a href="#">Excellent</a>       | 100        | Inert.                                                  | <a href="#">Cole-Parmer Chemical Compatibility</a>   |

| MATERIAL              | RATING          | MAX T (°C) | NOTES                                      | SOURCE                                             |
|-----------------------|-----------------|------------|--------------------------------------------|----------------------------------------------------|
| Carbon Steel<br>Metal | Good            | 80         | Acceptable for dry hydrocarbons.           | <a href="#">Cole-Parmer Chemical Compatibility</a> |
| HDPE<br>Thermoplastic | Not recommended | —          | Aromatic solvents swell and dissolve HDPE. | <a href="#">Cole-Parmer Chemical Compatibility</a> |

Ratings reflect the service envelope (concentration × temperature) shown. Always confirm against your specific duty cycle and contact-time before equipment selection. The most cautious rating across overlapping references is shown.

## REGULATORY & TRANSPORT

### DOT / 49 CFR

UN NUMBER

UN1208 **Vendor Label**

HAZARD CLASS

3 **Adjudicated**

PACKING GROUP

II **Adjudicated**

PROPER SHIPPING NAME

HEXANES **Adjudicated**

### GHS / OSHA HAZCOM 2012

SIGNAL WORD

Danger **Adjudicated**

H-CODES (HAZARD STATEMENTS)

H225, H304, H315, H336, H361f, H373, H411

**ECHA CLP Annex VI**

P-CODES (PRECAUTIONARY STATEMENTS)

P201, P202, P210, P233, P240, P241, P242, P243, P260, P261, P264, P270, P271, P273, P280, P301+P310, P302+P352, P303+P361+P353,...

### OCCUPATIONAL EXPOSURE LIMITS

OSHA PEL (29 CFR 1910.1000)

500 ppm TWA **OSHA 29 CFR 1910.1000**

ACGIH TLV

— **unknown**

NIOSH REL

50 ppm TWA **NIOSH Pocket Guide**

NIOSH IDLH

1100 ppm (10% LEL) **NIOSH Pocket Guide**

Transport descriptions reflect 49 CFR 172.101 lookup at time of publication. Sourced data: ECHA CLP Annex VI for harmonised classifications, NIOSH Pocket Guide for REL/IDLH, OSHA Z-Tables for PEL. Always verify against the latest regulatory text before shipment-critical decisions.

## Supplier Qualification Packet

One zipped download containing the TDS, SDS, latest lot COA (when available), and a fresh Letter of Continuing Guaranty for Hexane Technical Grade. Every file included is SHA-256 hashed and listed in a manifest your QA team can audit.

### CATALOG EQUIVALENTS CROSS-REFERENCE VS MAJOR CHEMICAL SUPPLIERS

#### SIGMA-ALDRICH

| SKU                    | GRADE       | CONC. | MATCH | NOTES                   |
|------------------------|-------------|-------|-------|-------------------------|
| <a href="#">139386</a> | ACS Reagent | 95%   | Exact | ACS Reagent $\geq 95\%$ |

Cross-references are informational. Confirm against the manufacturer's current specification before substitution. Competitor trademarks are property of their respective owners.

#### APPLICATION GUIDANCE

Hexane Technical Grade (Technical Grade) is a nonpolar solvent used for hydrocarbon extraction, coatings, and degreasing.

- Coatings, paints, and adhesives
- Industrial degreasing
- Hydrocarbon extraction and recovery
- Rubber and polymer processing
- Cleaning of oil-based residues

Highly flammable and electrostatic-prone. Use grounded transfer equipment and inert gas blanketing where appropriate.

## STORAGE & HANDLING

### RECOMMENDED STORAGE

Cool, well-ventilated flammable-liquid storage. Tightly sealed containers. Segregate from oxidizers. Bond and ground bulk storage;...

### INCOMPATIBILITIES

Strong oxidizers, halogens, nitric acid. Some grades react with rubber and certain plastics — verify gasket and hose compatibility.

### HANDLING PRECAUTIONS

Eliminate ignition sources. Use chemical-resistant nitrile or PVA gloves. Bond and ground all transfer equipment. Vapors heavier than air ...

### SHELF LIFE

24 months from date of manufacture in sealed, original packaging

For full hazard, PPE, and emergency response guidance, refer to the Safety Data Sheet (SDS) for this product. The SDS controls in all cases where guidance differs.

## PACKAGING & LOGISTICS

### SHIPPING DESCRIPTION (US DOT)

UN1208, HEXANES, 3, PG II

Sourced from 49 CFR 172.101. Confirm against shipping documents and carrier requirements before tender.

|                  |                             |                        |
|------------------|-----------------------------|------------------------|
| NMFC CLASS<br>70 | PLACARD<br>Flammable Liquid | PACKING GROUP<br>PG II |
|------------------|-----------------------------|------------------------|

## REVISION HISTORY

Last reviewed 2026-05-20 by Hossein Taki, Vice President (Vice President, Alliance Chemical · CAGE Code 1LT50 · DOT Hazmat Registrant #2188383).

| VERSION | DATE       | CHANGE                                                             | TRIGGER |
|---------|------------|--------------------------------------------------------------------|---------|
| 1.0     | 2026-05-20 | Initial URL-first TDS published from canonical chemistry registry. | initial |

This Technical Data Sheet is provided for technical reference. The Safety Data Sheet (SDS) controls in all cases where guidance differs. Values reflect Alliance Chemical canonical data at time of generation; subsequent revisions are recorded in the Revision History above.

## Order Hexane Technical Grade

Bulk & packaged sizes · COA/SDS ships with every order