

HEXANE

Formula	C ₆ H ₁₄
Mol. wt.	86.1096 g/mol
InChIKey	VLKZOE0YAKHREP-UHFFFAOYSA-N

1. MOLECULAR STRUCTURE 2D



2. HAZARD IDENTIFICATION (GHS)

Signal word: DANGER

Hazard pictograms:



Flammable

Hazard statements (H)

- H361f: Suspected of damaging fertility [Warning Reproductive toxicity]

Precautionary statements (P)

- P203, P210, P233, P240, P241, P242, P243, P260, P261, P264, P264+P265, P270, P271, P280, P301+P316, P302+P352, P303+P361+P353, P304+P340, P305+P351+P338, P318, P319, P321, P331, P332+P317, P337+P317, P362+P364, P370+P378, P403+P233, P403+P235, P405, and P501 (click each P-code to see the statement)

3. NFPA 704 SYSTEM



Quadrant	Value	Description
Health (blue)	0	No hazard
Flammability (red)	3	Burns below 37 °C
Reactivity (yellow)	0	Stable

NFPA 704 scale: 0 = no hazard | 1 = slight | 2 = moderate | 3 = serious | 4 = severe

4. ACUTE TOXICITY

LD50 data not available.

5. RELEVANT PHYSICAL AND CHEMICAL PROPERTIES

Property	Value	Unit	Source
Boiling point	156 °F at 760 mmHg (NTP, 1992)	—	pubchem_pugview
Density	0.659 at 68 °F (USCG, 1999) - Less dense than water; will float	—	pubchem_pugview
LogP (experimental)	log Kow = 3.90	—	pubchem_pugview
Flash point	-9.4 °F (NTP, 1992)	—	pubchem_pugview
Melting point	-139 °F (NTP, 1992)	—	pubchem_pugview
Vapor pressure	120 mmHg at 68 °F ; 180 mmHg at 77 °F (NTP, 1992)	—	pubchem_pugview
Water solubility	less than 1 mg/mL at 61.7 °F (NTP, 1992)	—	pubchem_pugview

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This document is an INFORMATIONAL SAFETY PROPERTIES SUMMARY automatically generated from PubChem data (National Institutes of Health, USA). It is NOT an official Safety Data Sheet (SDS) and does not comply with GHS, OSHA HazCom, REACH (EU), or any equivalent national regulation. It must NOT be used as the sole reference document in industrial settings, professional laboratories, or for occupational risk assessment. Always consult the official SDS from the compound supplier and applicable local regulations before handling.

Official SDS sources:

- Sigma-Aldrich (Merck): <https://www.sigmaaldrich.com/search?q=hexane>
- Fisher Scientific: <https://www.fishersci.com/us/en/catalog/search/sds?query=hexane>
- PubChem (source data): <https://pubchem.ncbi.nlm.nih.gov/#query=hexane>
- GESTIS (database): <https://gestis-database.dguv.de/>

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