

METHANE

Formula	CH ₄
Mol. wt.	16.0313 g/mol
InChIKey	VNWK0KETHGBQD-UHFFFAOYSA-N

1. MOLECULAR STRUCTURE 2D



2. HAZARD IDENTIFICATION (GHS)

Signal word: DANGER

Hazard pictograms:



Compressed gas

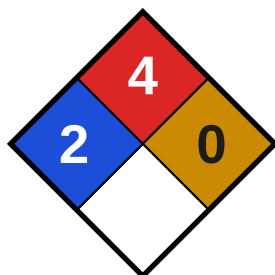
Hazard statements (H)

- H220: Extremely flammable gas [Danger Flammable gases]

Precautionary statements (P)

- P203, P210, P222, P280, P282, P336+P317, P377, P381, P403, and P410+P403 (click each P-code to see the statement)

3. NFPA 704 SYSTEM



Quadrant	Value	Description
Health (blue)	2	Hazardous prolonged
Flammability (red)	4	Burns below 23 °C and BP <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	-258 °F at 760 mmHg (USCG, 1999)	—	pubchem_pugview
Density	0.415 to 0.45 at -259.6 °F (USCG, 1999)	—	pubchem_pugview
LogP (experimental)	log Kow = 1.09	—	pubchem_pugview
Flash point	-306 °F (NTP, 1992)	—	pubchem_pugview
Melting point	-296 °F (USCG, 1999)	—	pubchem_pugview
Vapor pressure	258574 mmHg at 100 °F ; 760 mmHg at -258.7 °F (NTP, 1992)	—	pubchem_pugview
Water solubility	3.5 mL/100 mL at 63 °F (NTP, 1992)	—	pubchem_pugview

IMPORTANT LEGAL DISCLAIMER

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

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