

SODIUM HYDROXIDE

Formula	HNaO
Mol. wt.	39.9925 g/mol
InChIKey	HEMHJVSKTPXQMS-UHFFFAOYSA-M

1. MOLECULAR STRUCTURE 2D



2. HAZARD IDENTIFICATION (GHS)

Signal word: **DANGER**

Hazard pictograms:



Health hazard

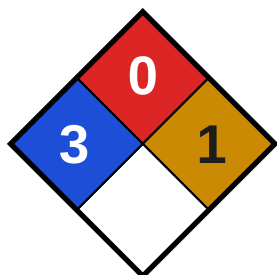
Hazard statements (H)

- H314: Causes severe skin burns and eye damage [Danger Skin corrosion/irritation]

Precautionary statements (P)

- P260, P261, P264, P271, P280, P301+P330+P331, P302+P361+P354, P304+P340, P305+P354+P338, P316, P319, P321, P363, P403+P233, P405, and P501 (click each P-code to see the statement)

3. NFPA 704 SYSTEM



Quadrant	Value	Description
Health (blue)	3	Hazardous short
Flammability (red)	0	Will not burn
Reactivity (yellow)	1	Unstable if heated

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	greater than 266 °F at 760 mmHg (USCG, 1999)	—	pubchem_pugview
Density	1.5 at 68 °F (USCG, 1999) - Denser than water; will sink	—	pubchem_pugview
Melting point	604 °F (USCG, 1999)	—	pubchem_pugview
Vapor pressure	0 mmHg (approx) (NIOSH, 2024)	—	pubchem_pugview
Water solubility	111 % (NIOSH, 2024)	—	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=sodium hydroxide](https://www.sigmaaldrich.com/search#q=sodium+hydroxide)
- Fisher Scientific: [https://www.fishersci.com/us/en/catalog/search/sds?query=sodium hydroxide](https://www.fishersci.com/us/en/catalog/search/sds?query=sodium+hydroxide)
- PubChem (source data): [https://pubchem.ncbi.nlm.nih.gov/#query=sodium hydroxide](https://pubchem.ncbi.nlm.nih.gov/#query=sodium+hydroxide)
- GESTIS (database): <https://gestis-database.dguv.de/>

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