

CALCIUM HYDROXIDE

calcium dihydroxide

Formula	H ₂ CaO ₂
Mol. wt.	73.9681 g/mol
InChIKey	AXCZMVOFGPJBDE-UHFFFAOYSA-L

1. MOLECULAR STRUCTURE 2D



2. HAZARD IDENTIFICATION (GHS)

Signal word: DANGER

Hazard pictograms:



Health hazard

Hazard statements (H)

- H335: May cause respiratory irritation [Warning Specific target organ toxicity, single exposure; Respiratory tract irritation]

Precautionary statements (P)

- P261, P264, P264+P265, P271, P273, P280, P302+P352, P304+P340, P305+P354+P338, P317, P319, P321, P332+P317, P362+P364, P403+P233, P405, and P501 (click each P-code to see the statement)

3. NFPA 704 SYSTEM

NFPA 704 data not available.

4. ACUTE TOXICITY

LD50 data not available.

5. RELEVANT PHYSICAL AND CHEMICAL PROPERTIES

Property	Value	Unit	Source
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Boiling point	Decomposes (NIOSH, 2024)	—	pubchem_pugview
Density	2.24 at 68 °F (USCG, 1999) - Denser than water; will sink	—	pubchem_pugview
Flash point	/Calcium Hydroxide is/ non flammable	—	pubchem_pugview
Melting point	1076 °F (Decomposes) (Loses H2O) (NIOSH, 2024)	—	pubchem_pugview
Vapor pressure	0 mmHg (approx) (NIOSH, 2024)	—	pubchem_pugview
Water solubility	0.2 % at 32 °F (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=CALCIUM HYDROXIDE](https://www.sigmaaldrich.com/search?q=CALCIUM+HYDROXIDE)
- Fisher Scientific: [https://www.fishersci.com/us/en/catalog/search/sds?query=CALCIUM HYDROXIDE](https://www.fishersci.com/us/en/catalog/search/sds?query=CALCIUM+HYDROXIDE)
- PubChem (source data): [https://pubchem.ncbi.nlm.nih.gov/#query=CALCIUM HYDROXIDE](https://pubchem.ncbi.nlm.nih.gov/#query=CALCIUM+HYDROXIDE)
- GESTIS (database): <https://gestis-database.dguv.de/>

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