

AMMONIA SOLUTION, STRONG

azane

Formula	H ₃ N
Mol. wt.	17.0265 g/mol
InChIKey	QGZKDVFNNGYKY-UHFFFAOYSA-N

1. MOLECULAR STRUCTURE 2D



2. HAZARD IDENTIFICATION (GHS)

Signal word: DANGER

Hazard pictograms:



Health hazard

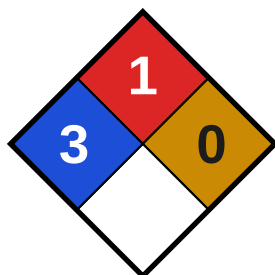
Hazard statements (H)

- H341: Suspected of causing genetic defects [Warning Germ cell mutagenicity]

Precautionary statements (P)

- P210, P260, P261, P264, P271, P273, P280, P301+P330+P331, P302+P361+P354, P304+P340, P305+P354+P338, P316, P321, P363, P377, P381, P391, P403, 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)	1	Burns above 93 °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	-28.03 °F at 760 mmHg (EPA, 1998)	—	pubchem_pugview
Density	0.6818 at -28.03 °F (EPA, 1998) - Less dense than water; will float	—	pubchem_pugview
LogP (experimental)	log Kow = -2.66 /estimate for ammonium hydroxide which is the form of ammonia in water/	—	pubchem_pugview
Flash point	132 °C (270 °F) - closed cup	—	pubchem_pugview
Melting point	-107.9 °F (EPA, 1998)	—	pubchem_pugview
Vapor pressure	400 mmHg at -49.72 °F (EPA, 1998)	—	pubchem_pugview
Water solubility	34 % (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=AMMONIA SOLUTION, STRONG>
- Fisher Scientific: <https://www.fishersci.com/us/en/catalog/search/sds?query=AMMONIA SOLUTION, STRONG>
- PubChem (source data): <https://pubchem.ncbi.nlm.nih.gov/#query=AMMONIA SOLUTION, STRONG>
- GESTIS (database): <https://gestis-database.dguv.de/>

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