

Hydrogen Peroxide

5% ACS Grade

ACS Grade · 5%

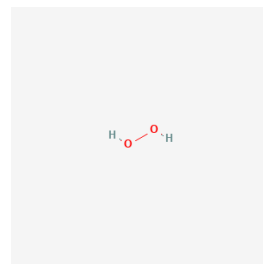
GHS Revision
Rev. 9 (2021)

Reviewed
2026-07-17

Emergency
Chemtel 1-800-255-3924 (24/7)

CAS number

7722-84-1



Structure · PubChem

Grade

ACS Grade · 5%

Signal word

Warning

Hazards

Irritant / harmful

H319

1 Identification

Product Identifier

Hydrogen Peroxide 5% ACS Grade

Grade

ACS Grade

Concentration

5%

CAS Number

7722-84-1

Chemical Formula

H₂O₂

Manufacturer

Alliance Chemical

204 South Edmond Street, Taylor, TX 76574

Emergency Phone

Chemtel 1-800-255-3924 (24/7)

Recommended Use

Industrial / laboratory chemical. See Section 7.

2 Hazard Identification



Irritant /
harmful

Signal Word

Warning

Hazard Statements

H319 Causes serious eye irritation

Precautionary Statements

P264 Wash hands and face thoroughly after handling.

P280 Wear protective gloves, protective clothing, and eye/face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313 If eye irritation persists: Get medical advice or attention.

Hazard (H) and precautionary (P) statements and pictograms conform to GHS Rev. 9. The full classification rationale is in the downloadable SDS PDF.

3 Composition / Information on Ingredients

Component	CAS No.	Formula	Concentration
Hydrogen Peroxide 5% ACS Grade	7722-84-1	H2O2	5% (w/w)

Concentrations are nominal; lot-specific values appear on the Certificate of Analysis. Components not contributing to classification are omitted.

4 First-Aid Measures

Eyes	Rinse with plenty of water for at least 15 minutes. Remove contact lenses if present and easy to do. Continue rinsing. Seek medical attention immediately.
Skin	Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing. Wash with soap. Get medical attention immediately.
Inhalation	Move person to fresh air and keep comfortable for breathing. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention immediately.
Ingestion	Do Not Induce Vomiting! Never give anything by mouth to an unconscious person. If conscious, wash out mouth with water. Get medical attention immediately.

5 Fire-Fighting Measures

Suitable Extinguishing Media	Use water spray, alcohol-resistant foam, dry chemical, or CO ₂ . Use measures appropriate to local circumstances.
Unsuitable Extinguishing Media	Do not use a solid water stream as it may scatter and spread fire.
Protective Equipment	Wear self-contained breathing apparatus and full protective clothing.
Hazardous Combustion Products	Oxygen, which may intensify fire.

6 Accidental Release Measures

Personal Precautions	Use PPE as described in Section 8. Ensure adequate ventilation. Evacuate personnel to safe areas.
Environmental Precautions	Prevent leakage or spillage from entering drains,

Containment & Cleanup

sewers, or waterways.

Absorb with inert material. Collect in appropriate waste container. Dispose per applicable regulations.

7 Handling and Storage

Safe Handling

Use with adequate ventilation. Avoid contact with skin, eyes, and clothing. Wash thoroughly after handling.

Keep container closed when not in use.

Safe Storage

Store in a cool, dry, well-ventilated area. Keep away from incompatible materials (see Section 10). Keep containers tightly closed.

8 Exposure Controls / Personal Protection

Occupational Exposure Limits

Limit	Value
OSHA PEL	1 ppm TWA
NIOSH REL	1 ppm TWA
IDLH	75 ppm

Engineering Controls

Use adequate ventilation. Provide eyewash stations and quick-drench showers accessible to areas of use.

Eye/Face Protection

Wear chemical safety goggles or face shield.

Skin Protection

Wear chemical-resistant gloves and protective clothing.

Respiratory Protection

Use NIOSH-approved respirator if exposure limits are exceeded or irritation occurs.

Exposure limits sourced from NIOSH Pocket Guide and OSHA 29 CFR 1910.1000. Hazard classification from ECHA Classification and Labelling Inventory (CLP Annex VI).

9 Physical & Chemical Properties

Appearance	Clear colorless liquid with slight viscosity
Odor	... Slightly sharp odor ...
Odor Threshold	No data available
pH	Weak acid; H ₂ O ₂ concn wt% = 35, 50, 70, 90; corresponding true pH: 4.6, 4.3, 4.4, 5.1
Melting Point / Freezing Point	Not characterized for the 5% solution
Boiling Point	Not characterized for the 5% solution
Flash Point	93 °C
Evaporation Rate	No data available
Flammability (solid, gas)	No data available
Upper/Lower Flammability or Explosive Limits	No data available
Vapor Pressure	1 mmHg at 59.5 °F (NTP, 1992)
Vapor Density	No data available
Relative Density	1.02
Solubility	greater than or equal to 100 mg/mL at 72 °F (NTP, 1992)
Partition Coefficient (n-octanol/water)	No data available
Auto-ignition Temperature	No data available
Decomposition Temperature	No data available
Viscosity	No data available
Particle Characteristics	Not applicable
Form	Liquid
Density	1.02 (5% w/w aqueous solution, 20 °C)

Values shown reflect product-specific canonical data. Lot-specific ranges may vary; see the Certificate of Analysis for the shipped lot.

10 Stability and Reactivity

Chemical Stability	Stable under recommended storage conditions.
Possibility of Hazardous Reactions	None under normal processing conditions.
Conditions to Avoid	Heat, sparks, open flame, and incompatible materials.

Incompatible Materials

Strong oxidizing agents, strong acids, strong bases.

Hazardous Decomposition Products

Oxygen, which may intensify fire.

11 Toxicological Information

See Section 2 for GHS hazard classification.

Carcinogen Classification

Agency	Status
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IARC	Group 3 — not classifiable as to its carcinogenicity to humans (Hydrogen peroxide; IARC agent: Hydrogen peroxide, Vol. 36, Sup 7, 71).
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NTP	Not listed as carcinogen.
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OSHA	Not listed as carcinogen.
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12 Ecological Information

Ecotoxicity	Data not available. Avoid release to the environment.
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Persistence & Degradability	Not Available
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Bioaccumulative Potential	Not Available
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Mobility in Soil	Not Available
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13 Disposal Considerations

Dispose of contents/container in accordance with applicable federal, state, and local regulations. Do not dispose of into drains or waterways.

14 Transport Information

Not regulated for transport under US DOT 49 CFR Subchapter C, IMDG, or IATA DGR.

15 Regulatory Information

Inventory / List	Status
California Proposition 65	Not listed
US EPA TSCA Active Inventory	Listed
EPCRA SARA 313 (TRI)	Not listed

SARA 311/312 hazard categories correspond to the GHS classification in Section 2. Data retrieved as of: California Proposition 65 2026-09-02; US EPA TSCA Active Inventory 2026-09-02; EPCRA SARA 313 (TRI) 2026-09-02.

16 Other Information

Revision Date	2026-07-17
GHS Format	GHS Rev. 9 (2021), 16-section format per OSHA HCS 2024 (29 CFR 1910.1200).

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