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## TARTARIC ACID

### 1. Product Identification

Synonyms: d-tartaric acid; 2,3-dihydroxybutanedioic acid

CAS No.: 87-69-4

Molecular Weight: 150.09

Chemical Formula:  $\text{HOOC}(\text{CH}_2\text{O})_2\text{COOH}$

Product Codes: 39141 , 39142

### 2. Composition/Information on Ingredients

Ingredient	CAS No	Percent
Tartaric Acid	87-69-4	98 - 100%

### 3. Hazards Identification

Potential Health Effects

Inhalation: Nuisance dust. May cause coughing and sneezing.

Ingestion: Mildly irritating to the gastro-intestinal system if large quantities are ingested. The effect is that of an acid, producing abdominal pain, nausea, vomiting and diarrhea.

Skin Contact: No adverse effects expected.

Eye Contact: Mild irritant and possibly temporarily abrasive. Reddening and tearing may be experienced.

Chronic Exposure: No information found.

Aggravation of Pre-existing Conditions: No information found.

### 4. First Aid Measures

Inhalation: Remove to fresh air. Get medical attention for any breathing difficulty.

Ingestion: If swallowed, give several glasses of water to drink to dilute. If large amounts were swallowed or symptoms occur, get medical advice. Never give anything by mouth to an unconscious person.

Skin Contact: Wash exposed area with soap and water. Get medical advice if irritation develops.

Eye Contact: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Call a physician if irritation persists.

### 5. Fire Fighting Measures

Fire: Not considered to be a fire hazard.

Explosion: Not considered to be a explosion hazard.

Fire Extinguishing Media: Water spray, dry chemical, alcohol foam, or carbon dioxide.

Special Information: In the event of a fire, wear full protective clothing and NIOSH-approved self contained breathing apparatus with full face-piece operated in the pressure demand or other positive pressure mode.

### 6. Accidental Release Measures

Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8.

Spills: Pick up and place in a suitable container for reclamation or disposal, using a method that does not generate dust.

The information contained herein is in good faith but makes no representations as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. We do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.



### 7. Handling and Storage

Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Isolate from any source of heat or ignition. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

### 8. Exposure Controls/Personal Protection

Airborne Exposure Limits: None established.

Ventilation System: A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area.

Personal Respirators(NIOSH Approved): For conditions of use where exposure to dust or mist is apparent and engineering controls are not feasible, a particulate respirator (NIOSH type N95 or better filters) may be worn.

Skin Protection: Wear protective gloves and clean body-covering clothing.

Eye Protection: Use chemical safety goggles. Maintain eye wash fountain and quick-drench facilities in work area.

### 9. Physical and Chemical Properties

Appearance: White crystals.

Odor: Odorless.

Solubility: ca. 133 g/100 g of water.

Density: 1.76

pH: No information found.

% Volatiles by volume @ 21C (70F): No information found.

Boiling Point: Not applicable.

Melting Point: 206C (403F)

Vapor Density (Air=1): No information found.

Vapor Pressure (mm Hg): No information found.

Evaporation Rate (BuAc=1): No information found.

### 10. Stability and Reactivity

Stability: Stable under ordinary conditions of use and storage.

Hazardous Decomposition Products: Carbon dioxide and carbon monoxide may form when heated to decomposition.

Hazardous Polymerization: Will not occur.

Incompatibilities: Silver and silver compounds.

Conditions to Avoid: Incompatibles.

### 11. Toxicological Information

No LD50/LC50 information found relating to normal routes of occupational exposure.

-----\Cancer Lists\-----

---NTP Carcinogen---

Ingredient	Known	Anticipated	IARC Category
Tartaric Acid (87-69-4)	No	No	None

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#### 12. Ecological Information

Environmental Fate: No information found.

Environmental Toxicity: No information found.

#### 13. Disposal Considerations

Dispose of container and unused contents in accordance with federal, state and local requirements.

#### 14. Transport Information

Not regulated.

#### 15. Regulatory Information

SARA 311/312: Acute: No Chronic: No Fire: No Pressure: No

Reactivity: No (Pure / Solid)

#### 16. Other Information

Product Use:

Laboratory Reagent.