

[Ethylenediaminetetraacetic Acid
Ferric Sodium Salt](#)

[Pricing >](#)

Linear Formula	C ₁₀ H ₁₂ N ₂ NaFeO ₈
Pubchem CID	27461
MDL Number	MFCD00078215
EC No.	239-802-2
IUPAC Name	sodium; 2-[2-[bis(carboxylatomethyl)amino]ethyl-(carboxylatomethyl)amino]acetate; iron(3+)
SMILES	C(CN(CC(=O)[O-])CC(=O)[O-])N(CC(=O)[O-])CC(=O)[O-].[Na+].[Fe+3]
Inchi Identifier	InChI=1S/C10H16N2O8.Fe.Na/c13-7(14)3-11(4-8(15)16)1-2-12(5-9(17)18)6-10(19)20;/h1-6H2,(H,13,14)(H,15,16)(H,17,18)(H,19,20);/q;+3,+1/p-4
Inchi Key	MKWYFZFMAMBQK-UHFFFAOYSA-J

Signal Word	N/A
Hazard Statements	N/A
Hazard Codes	N/A
Risk Codes	36/37/38
Safety Statements	26-36
RTECS Number	AH4900000
Transport Information	NONH for all modes of transport
WGK Germany	3

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SAFETY DATA SHEET

Date Accessed: 05/18/2024

Date Revised: 01/15/2022

SECTION 1. IDENTIFICATION

Product Identifiers: All applicable American Elements product codes for CAS #15708-41-5

Relevant identified uses of the substance:
Scientific research and development

Supplier details:
American Elements
10884 Weyburn Ave.
Los Angeles, CA 90024
Tel: +1 310-208-0551
Fax: +1 310-208-0351

Emergency telephone number:
Domestic, North America +1 800-424-9300
International +1 703-527-3887

SECTION 2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Not a hazardous substance or mixture.

GHS Label elements, including hazard and precautionary statements:

Not a hazardous substance or mixture.

Hazards not otherwise classified (HNOC) or not covered by GHS - None

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Formula: $C_{10}H_{12}N_2O_8NaFe$

Molecular Weight: 367.02 g/mol

EC No.: 239-802-2

SECTION 4. FIRST AID MEASURES

General Advice:

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

Ingestion:

May cause irritation if swallowed.

If swallowed, wash out mouth with water. Never give anything by mouth to an unconscious person. Get medical attention.

Inhalation:

May cause irritation to respiratory tract.

Safely remove victim to fresh air. If not breathing, institute cardiopulmonary resuscitation (CPR). If breathing is difficult, ensure clear airway and give oxygen. Get medical attention.

Eye Contact:

Direct contact may cause irritation. May cause redness, tearing, or blurred vision.

Flush immediately with large amounts of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Get medical attention if irritation persists.

Skin Contact:

Irritating. May cause reddening, itching or inflammation.

Wash area thoroughly with soap and water. Remove and wash contaminated clothing. Get medical

attention if irritation persists.

SECTION 5. FIREFIGHTING MEASURES

Suitable Extinguishing Media: Water spray, carbon dioxide, dry chemical powder, or appropriate foam. Use extinguishing media suitable for surrounding fire.

Special Protective Equipment and Precaution for Firefighters:

In the event of a fire, wear full protective clothing and NIOSH approved selfcontained breathing apparatus. Evacuate the area and fight fire from a safe distance.

Hazardous Combustion Products: May emit toxic fumes under fire conditions.

Toxic Gases Produced: Carbon monoxide, carbon dioxide, nitrogen oxides, sodium oxides, iron oxides.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:

Use personal protection recommended in Section 8. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation, especially in confined areas. Evacuate personnel to safe areas. Avoid breathing dust.

Environmental Precautions: Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Method of Containment and Cleanup:

Wear suitable protective clothing. Avoid dust formation. Carefully sweep up and remove. Place material in a dry container and cover. Remove from the area. Flush spill area with water. Do not let products enter drains.

SECTION 7. HANDLING AND STORAGE

Precaution for Safe Handling: Avoid contact with skin and eyes. Avoid dust formation and aerosols. Avoid incompatible substances. Keep away from combustible materials. Wash thoroughly after use.

Conditions for Safe Storage: Keep in a tightly closed

container and store in a cool, dry, and well-ventilated area.

Incompatibilities: Strong oxidizing agent

Recommended Storage Temperature: Room Temperature

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

OSHA's Permissible Exposure Limits (PELs): No data available

Threshold Limit Values (TLVs): No data available

Engineering Controls: Handle in accordance to general industrial hygiene and safety practice.

Personal Protective Equipment (PPE):

Eye/Face Protection: Chemical safety glasses or goggles. Have eye-washing facilities readily available where eye contact can occur.

Skin Protection: Protective gloves

Body Protection: Lab coat

Respiratory Protection: A NIOSH/MSHA approved air purifying respirator

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Yellow-green to brownish powder

pH (0.037 g/L): Under Development (4.0 – 6.0 suspected range)

Solubility: Soluble in Water

Melting Point: ~80 °C

Vapor Density: No data available

Vapor Pressure: No data available

Odor: Odorless

Odor Threshold: No data available

Viscosity: No data available

Relative Density: 1.78 g/cm³ at 20 °C

Evaporation Rate: No data available

Initial Boiling Point and

Boiling Range: No data available

Flammability (solid, gas): No data available

Partition coefficient:

n-octanol/water:

No data available

Auto-ignition Temperature: 207 °C (405 °F) at 1,013

hPa (760 mmHg)
Decomposition Temperature: No data available
Flash Point (Closed Cup): No data available
Flammable Limits: Upper (%) – No data available
Lower (%) – No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity: No data available

Chemical Stability: Stable under normal conditions of use

Possibility of Hazard Reactions: Will not occur

Conditions to Avoid: Incompatibles, excessive moisture

Incompatibles Materials: Strong oxidizing agents, some metals and metal alloys

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, nitrogen oxides, sodium oxides, iron oxides

SECTION 11. TOXICOLOGICAL INFORMATION

Toxicity:

LD50 (Oral-Rat)(mg/Kg): >2000

LD50 (Oral-Mouse)(mg/Kg): 5000

LD50 (Dermal-Rat)(mg/Kg): >2000

Carcinogenicity:

NTP: No

IARC: No

Z List: No

OSHA Reg: No

Reproductive Toxicity: No data available

Symptoms Associated with Overexposure:

Irritation, itching, gastrointestinal upset, nausea, possible sensitization

Specific Target Organ Toxicity:

Single Exposure: No data available

Repeated Exposure: No data available

Target Organs: Blood

Medical Conditions Aggravated By Exposure: Blood

disorders

Routes of Entry: Inhalation, ingestions, skin and eye contact

NIOSH/RTECS NO: AH4900000

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity: Toxicity to fish – LC50 – rainbow trout -
>100 mg/L -96 hrs

Persistence and Degradability: No data available

Bioaccumulative Potential: No data available

Mobility in Soil: No data available

Other Adverse Effects: No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal Procedure: Dispose in accordance with all applicable federal, state, and local environmental regulations.

EPA Hazardous Waste Number: No data available

SECTION 14. TRANSPORT INFORMATION

Domestic (D.O.T.):

Proper Shipping Name: CHEMICALS, N.O.S. (NON-REGULATED)

Hazard Class: N/A

UN/NA: N/A

Labels: N/A

International:

IMDG:

Proper Shipping Name: CHEMICALS, N.O.S. (NON-REGULATED)

Hazard Class: N/A

UN/NA: N/A

Labels: N/A

IATA:

Proper Shipping Name: CHEMICALS, N.O.S. (NON-REGULATED)

Hazard Class: N/A

UN/NA: N/A
Labels: N/A

SECTION 15. REGULATORY INFORMATION

TSCA: Yes
SARA TITLE III:
Section 302 (EHS) Ingredients: No
Section 313 Ingredients: No
Section 304 (EHS/CERCLA) Ingredients: No
Section 311/312 Hazard: No SARA Hazards

Massachusetts Right to Know Components: No components are subject to the Massachusetts Right to Know Act.
Pennsylvania Right to Know Components: CAS No.: 15708-41-5 Sodium ferredetate
New Jersey Right to Know Components: CAS No.: 15708-41-5 Sodium ferredetate
California Prop. 65 Components: This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH). The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. American Elements shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. COPYRIGHT 1997-2022 AMERICAN ELEMENTS. LICENSED GRANTED TO MAKE UNLIMITED PAPER COPIES FOR INTERNAL USE ONLY.
