


Diethyltelluride		Pricing >
Linear Formula	Te(CH ₂ CH ₃) ₂	
Pubchem CID	69394	
MDL Number	MFCD00015104	
EC No.	211-002-8	
IUPAC Name	ethyltellanylethane	
SMILES	CC[Te]CC	
Inchl Identifier	InChI=1S/C4H10Te/c1-3-5-4-2/h3-4H2,1-2H3	
Inchl Key	ILXWFJOFKUNZJA-UHFFFAOYSA-N	
Signal Word	Danger	
Hazard Statements	H301+H311+H331-H315-H320-H335	
Hazard Codes	T	
Precautionary Statements	P210-P233-P261-P262--P301+P310+P330-P304+P340-P302+P360-P305+P351+P338	
Flash Point	42.2 °C (closed cup)	
Risk Codes	10-23/24/25	
Safety Statements	36/37-45	
RTECS Number	KI8190000	
Transport Information	UN 2929 6.1/PG II	
WGK Germany	3	
GHS Pictograms	GHS06 Skull and Crossbones 	

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SAFETY DATA SHEET

Date Accessed: 05/01/2024

Date Revised: 01/15/2022

SECTION 1. IDENTIFICATION

Product Identifiers: All applicable American Elements product codes for CAS #627-54-3

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

EMERGENCY OVERVIEW

Combustible (USA) Flammable (EU). Toxic.
Toxic by inhalation, in contact with skin and if
swallowed.

Target organ(s): Kidneys. Liver.

HMIS RATING

HEALTH: 2*

FLAMMABILITY: 2

REACTIVITY: 0

NFPA RATING

HEALTH: 2

FLAMMABILITY: 2

REACTIVITY: 0

*additional chronic hazards present.

For additional information on toxicity, please refer to
Section 11.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance Name CAS # SARA 313

DIETHYLTELLURIDE 627-54-3 No

Formula C₄H₁₀Te

Synonyms Diethyl telluride * Diethyltellurium * Ethyl
telluride (8Cl) * 1,1'-Tellurobisethane

RTECS Number: KI8190000

SECTION 4. FIRST AID MEASURES

ORAL EXPOSURE

If swallowed, wash out mouth with water provided
person is
conscious. Call a physician immediately.

INHALATION EXPOSURE

If inhaled, remove to fresh air. If not breathing give
artificial respiration. If breathing is difficult, give
oxygen.

DERMAL EXPOSURE

In case of skin contact, flush with copious amounts of

water for
at least 15 minutes. Remove contaminated clothing
and shoes.
Call a physician.
EYE EXPOSURE
In case of contact with eyes, flush with copious
amounts of
water for at least 15 minutes. Assure adequate
flushing by
separating the eyelids with fingers. Call a physician.

SECTION 5. FIREFIGHTING MEASURES

FLAMMABLE HAZARDS

Flammable Hazards: Yes

EXPLOSION HAZARDS

Vapor may travel considerable distance to source of
ignition and
flash back. Container explosion may occur under fire
conditions.

Forms explosive mixtures in air.

FLASH POINT

108,000 °F 42,200 °C Method: closed cup

AUTOIGNITION TEMP

N/A

FLAMMABILITY

N/A

EXTINGUISHING MEDIA

Suitable: For small (incipient) fires, use media such as
"alcohol" foam, dry chemical, or carbon dioxide. For
large
fires, apply water from as far as possible. Use very
large
quantities (flooding) of water applied as a mist or
spray; solid
streams of water may be ineffective. Cool all affected
containers with flooding quantities of water.

FIREFIGHTING

Protective Equipment: Wear self-contained breathing
apparatus
and protective clothing to prevent contact with skin
and eyes.

Specific Hazard(s): Emits toxic fumes under fire
conditions.

Vapor may travel considerable distance to source of
ignition and
flash back.

Specific Method(s) of Fire Fighting: Use water spray
to cool
fire-exposed containers.

SECTION 6. ACCIDENTAL RELEASE MEASURES

PROCEDURE TO BE FOLLOWED IN CASE OF LEAK OR SPILL

Evacuate area. Shut off all sources of ignition.

PROCEDURE(S) OF PERSONAL PRECAUTION(S)

Wear self-contained breathing apparatus, rubber boots, and heavy rubber gloves.

METHODS FOR CLEANING UP

Cover with dry-lime, sand, or soda ash. Place in covered

containers using non-sparking tools and transport outdoors.

Ventilate area and wash spill site after material pickup is complete.

SECTION 7. HANDLING AND STORAGE

HANDLING

User Exposure: Do not breathe vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

STORAGE

Suitable: Keep container closed. Keep away from heat, sparks, and open flame.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS

Safety shower and eye bath. Use nonsparking tools. Use only in a chemical fume hood.

PERSONAL PROTECTIVE EQUIPMENT

Respiratory: Use respirators and components tested and approved

under appropriate government standards such as NIOSH (US) or CEN

(EU). Where risk assessment shows air-purifying respirators are

appropriate use a full-face respirator with multi-purpose

combination (US) or type ABEK (EN 14387) respirator cartridges as

a backup to engineering controls. If the respirator is the sole

means of protection, use a full-face supplied air

respirator.
Hand: Compatible chemical-resistant gloves.
Eye: Chemical safety goggles.
GENERAL HYGIENE MEASURES
Wash thoroughly after handling. Remove and wash
contaminated
clothing promptly.
EXPOSURE LIMITS, RTECS
Country Source Type Value
USA ACGIH TWA 0.145549 MG/M3

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Physical State: Liquid
Color: Dark - yellow
Property Value At Temperature or Pressure
Molecular Weight 185.7000 AMU
pH N/A
BP/BP Range 137-138 °C °760,000 mmHg
MP/MP Range N/A
Freezing Point N/A
Vapor Pressure 9.3 mmHg 21,00 °C
Vapor Density N/A
Saturated Vapor Conc. N/A
SG/Density 1.5920 g/cm3
Bulk Density 1.592 kg/l 21,00 °C
Odor Threshold N/A
Volatile% N/A
VOC Content N/A
Water Content N/A
Solvent Content N/A
Evaporation Rate N/A
Viscosity N/A
Surface Tension N/A
Partition Coefficient N/A
Decomposition Temp. N/A
Flash Point 108,000 °F Method: closed cup
42,200 °C
Explosion Limits N/A
Flammability N/A
Autoignition Temp N/A
Refractive Index N/A
Optical Rotation N/A
Miscellaneous Data N/A
Solubility N/A
N/A = not available

SECTION 10. STABILITY AND REACTIVITY

STABILITY

Stable: Stable.
Materials to Avoid: Strong oxidizing agents.
HAZARDOUS DECOMPOSITION PRODUCTS
Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide, Tellurium oxides.
HAZARDOUS POLYMERIZATION
Hazardous Polymerization: Will not occur

SECTION 11. TOXICOLOGICAL INFORMATION

ROUTE OF EXPOSURE

Skin Contact: May cause skin irritation.
Skin Absorption: Toxic if absorbed through skin.
Eye Contact: May cause eye irritation.
Inhalation: Toxic if inhaled. Material may be irritating to mucous membranes and upper respiratory tract.

Ingestion: Toxic if swallowed.

TARGET ORGAN(S) OR SYSTEM(S)

Liver. Kidneys.

SIGNS AND SYMPTOMS OF EXPOSURE

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Increased liver enzymes. Dermatitis.

TOXICITY DATA

Oral

Rat

54,100000 mg/kg

LD50

Inhalation

Rat

24,000 mg/m³

LC50

Oral

Mouse

154,000000 mg/kg

LD50

Inhalation

Mouse

117,000 mg/m³

LC50

SECTION 12. ECOLOGICAL INFORMATION

No data available.

SECTION 13. DISPOSAL CONSIDERATIONS

APPROPRIATE METHOD OF DISPOSAL OF SUBSTANCE OR PREPARATION

Contact a licensed professional waste disposal service to dispose of this material. Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Observe all federal, state, and local environmental regulations.

SECTION 14. TRANSPORT INFORMATION

DOT

Proper Shipping Name: Toxic liquids, flammable, organic, n.o.s.

UN#: 2929

Class: 6.1

Packing Group: Packing Group II

Hazard Label: Toxic substances.

Hazard Label: Flammable liquid

PIH: Not PIH

IATA

Proper Shipping Name: Toxic liquid, flammable, organic, n.o.s.

IATA UN Number: 2929

Hazard Class: 6.1

Packing Group: II

SECTION 15. REGULATORY INFORMATION

EU ADDITIONAL CLASSIFICATION

Symbol of Danger: T

Indication of Danger: Toxic.

R: 10-23/24/25

Risk Statements: Flammable. Toxic by inhalation, in contact with skin and if swallowed.

S: 36/37-45

Safety Statements: Wear suitable protective clothing and gloves.

In case of accident or if you feel unwell, seek medical advice

immediately (show the label where possible).

US CLASSIFICATION AND LABEL TEXT

Indication of Danger: Combustible (USA) Flammable (EU). Toxic.

Risk Statements: Toxic by inhalation, in contact with skin and if swallowed.

Safety Statements: Wear suitable protective clothing and gloves.

In case of accident or if you feel unwell, seek medical advice

immediately (show the label where possible).

US Statements: Target organ(s): Kidneys. Liver.

UNITED STATES REGULATORY INFORMATION

SARA LISTED: No

TSCA INVENTORY ITEM: Yes

CANADA REGULATORY INFORMATION

WHMIS Classification: This product has been classified in

accordance with the hazard criteria of the CPR, and the MSDS

contains all the information required by the CPR.

DSL: No

NDSL: No

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.