

1,1,2,2-Tetrafluoro-3-(1,1,2,2-tetrafluoroethoxy)propane Pricing >

### **Product Information**

Chemical Formula:	$C_5H_4F_8O$
Molecular Weight:	232.07
Synonyms:	1,1,2,2-Tetrafluoroethyl-2,2,3,3-tetrafluoropropylether; 1,1,2,2- Tetrafluoroethyl-2,2,3,3-tetrafluoropropyl ether; Propane, 1,1,2,2- tetrafluoro-3-(1,1,2,2-tetrafluoroethoxy)-
MDL No.:	MFCD00155961
EINECS / EC No.:	605-433-4
Pubchem CID:	2776662
IUPAC Name:	N/A
Standard Inchl:	InChI=1S/C5H4F8O/c6-2(7)4(10,11)1-14-5(12,13)3(8)9/h2-3H,1H2
Inchl Key:	HCBRSIIGBBDDCD-UHFFFAOYSA-N
SMILES:	C(C(C(F)F)(F)F)OC(C(F)F)(F)F
Appearance:	Clear, colorless liquid
Melting Point:	N/A
Boiling Point:	93.2 °C
Density (Theoretical):	1.5323 g/mL (20 °C)

### **Safety Information**

Signal Word:	Danger
Hazard Statements:	H226-H315-H319-H335
Precautionary Statements:	P210-P280-P301 + P330 + P331-P302 + P352-P304 + P340-P305 + P351 + P338
Flash Point:	27.5 °C
RTECS:	N/A
HTN:	2909.19.1800
Transportation Information:	UN3271 - HC 3 - PG III
GHS Pictograms:	

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## SAFETY DATA SHEET

Date Accessed: 05/15/2024 Date Revised: 01/15/2022

#### **SECTION 1. IDENTIFICATION**

**Product Identifiers:** All applicable American Elements product codes for CAS #16627-68-2

**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**

GHS Classification Flammable liquids (Category 3) Skin corrosion/irritation (Category 2) Serious eye damage/eye irritation (Category 2A) Respiratory tract irritation (Category 3) GHS Label elements, including precautionary statements Pictograms



Signal Word Warning Hazard Statement(s) H226 Flammable liquid and vapour H315 Causes skin irritation H319 Causes serious eye irritation H335 May cause respiratory irritation Precautionary Statement(s) P210 Keep away from heat/sparks/open flames/hot surfaces. — No smoking. P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301 + P330 + P331 IF SWALLOWED: Rinse mouth.
Do NOT induce vomiting.
P302 + P352 IF ON SKIN: wash with plenty of soap and water.
P304 + P340 IF INHALED: Remove victim to fresh air and Keep at rest in a position comfortable for breathing.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms :

1,1,2,2Tetrafluoro3(1,1,2,2tetrafluoroethoxy)propane, 2,2,3,3Tetrafluoro1(1,1,2,2tetrafluoroethoxy) propane Formula : C5H4F8O Molecular Weight : 232.07 g/mol

#### **SECTION 4. FIRST AID MEASURES**

In case of eye contact Immediately flush eyes with running water for at least 15 minutes while keeping eyes open. Seek medical attention. In case of skin contact Wash thoroughly with soap and plenty of water. Seek medical attention. If inhaled Remove victim from source of exposure to fresh air. If breathing is difficult, administer oxygen. Seek medical attention. If swallowed Do not induce vomiting. Give water to victim to drink. Seek medical attention.

#### **SECTION 5. FIREFIGHTING MEASURES**

Suitable extinguishing media Use carbon dioxide, dry chemical powder, alcoholresistant or polymer foam. Special protective equipment for firefighters Wear selfcontained breathing apparatus and protective clothing to prevent contact with skin and eyes. Unusual fire and explosion hazards/decomposition of product emits toxic fumes under fire conditions.

# SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Use personal protective equipment. Avoid breathing fumes, vapors, mists or gas. Ventilate area. Remove all sources of ignition. Evacuate personnel. Environmental precautions Prevent further leakage if safe to do so. Methods and materials for containment and clean up Absorb spills on sand or vermiculite and place in closed container for disposal.

#### SECTION 7. HANDLING AND STORAGE

Precautions for safe handling Avoid prolonged use. Avoid all direct contact with material. Do not breathe dust or vapor. Wash thoroughly after handling. Precautions for safe storage Keep container tightly closed. Store in a cool, dry, wellventilated area.

#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values. Personal protective equipment Eve/face protection Wear protective safety goggles or face shields tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU). Hand/skin protection Avoid all direct contact with product. Wear chemicalresistant gloves. Wear protective clothing and boots. After contact with skin, wash immediately. Respiratory protection Ensure adequate ventilation during use. Approved respiratory equipment must be used when airborne concentrations are unknown or exceed the exposure limits.

# SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance clear colorless liquid Odour no data available Odour Threshold no data available Melting point/Freezing Point 94°C Boiling Point 92°C Flash Point 27°C-closed cup Evaporation Rate no data available Flammability (solid, gas) no data available Upper/Lower Flammability or Explosive limits no data available Vapour pressure no data available Relative Density 1.533 Solubility(ies) no data available Partition coefficient: noctanol/ water no data available Autoignition temperature no data available Decomposition temperature no data available Viscosity no data available Refractive Index no data available

### SECTION 10. STABILITY AND REACTIVITY

Chemical stability Stable under recommended storage conditions. Possibility of hazardous reactions no data available Conditions to avoid no data available Incompatible materials Strong oxidizing agents, strong acids, and metals. Hazardous decomposition products May evolve carbon monoxide, carbon dioxide, and hydrogen fluoride.

# SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity no data available Skin corrosion/irritation Causes skin irritation Serious eye damage/eye irritation Causes serious eye irritation Respiratory or skin sensitization no data available

Germ cell mutagenicity no data available Carcinogenicity no data available Reproductive toxicity no data available STOTsingle exposure May cause respiratory irritation **STOT**repeated exposure no data available Aspiration hazard no data available **Exposure Routes** Irritating to skin, eyes, and respiratory system. May have harmful effects if inhaled or swallowed. To the best of our knowledge, the health hazards of this material have not been fully investigated.

### **SECTION 12. ECOLOGICAL INFORMATION**

Toxicity no data available Persistence and degradability no data available Bioaccumulative potential no data available Mobility in soil no data available PBT and vPvB assessment no data available Other adverse effects no data available

# SECTION 13. DISPOSAL CONSIDERATIONS

#### DISPOSAL CONSIDERATIONS

Dissolve in or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all Federal, State and local laws.

#### **SECTION 14. TRANSPORT INFORMATION**

DOT Ethers, n.o.s. 3 UN3271 III IMDG Ethers, n.o.s. 3 UN3271 III EMSNo: FE, SD Marine Pollutant: No IATA Ethers, n.o.s. 3 UN3271 III

#### SECTION 15. REGULATORY INFORMATION

SARA 302 Components SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302. SARA 313 Components SARA 313: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 313. New Jersey Right to Know Components This product may contain a chemical on the New Jersey Right to Know Components List. California Prop. 65 Components This product does not contain a chemical known to the State of California to cause cancer, birth defects, or 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.

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