

# **SAFETY DATA SHEET**

Product: TR578 Updated: 2025-06-09

1. IDENTIFICATION

**Product Name** 2,3,5-Tri-O-acetyl 1,4-anhydro-D-ribitol

Catalogue Number

TR578

Recommended Use La

Laboratory research and development.

Supplier Synthose Inc., 50 Viceroy Road, Unit 7, Concord, Ontario, L4K 3A7, Canada

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## 2. HAZARD IDENTIFICATION

#### Classification

Not classifiable according to GHS.

#### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name 2,3,5-Tri-O-acetyl 1,4-anhydro-D-ribitol

Synonym 1,4-Anhydro-D-ribitol triacetate

CAS Number 106707-71-5 Molecular Formula  $C_{11}H_{16}O_7$  Molecular Weight 260.24

#### 4. FIRST-AID MEASURES

**Inhalation** Call a POISON CENTER or doctor/physician if you feel unwell.

Remove victim to fresh air and keep at rest in a position comfortable for breathing.

**Skin Contact** Wash with plenty of soap and water.

Eye Contact Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

rinsing for at least 15 minutes.

**Ingestion** Call a POISON CENTER or doctor/physician if you feel unwell.

# Most Important Symptoms and Effects, Acute and Delayed

Not determined

## 5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media Water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.

Unsuitable Extinguishing Media Not determined
Special Protective Equipment and Not determined

**Precautions for Firefighters** 

## Specific Hazards Arising from the Hazardous Product

Hazardous Combustion Products Carbon oxides

## 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment

and Emergency Procedures

spray.

Methods and Materials for Containment and

Cleaning Up

Pick up and arrange disposal without creating dust. Sweep up and shovel or soak up with inert absorbent material. Keep in suitable, closed containers for disposal.

Use personal protective equipment. Avoid breathing dust, fumes, gas, mist, vapours, or

## 7. HANDLING AND STORAGE

**Precautions for Safe Handling** 

Wear protective clothing, gloves, and safety glasses in accordance with good laboratory practices.

Conditions for Safe Storage Store at 0 to -20 °C.

Keep container tightly closed.

Incompatible Materials Not determined

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Guidelines Not determined

Appropriate Engineering Controls

Use mechanical exhaust or laboratory fume hood to avoid exposure.

#### Individual Protection Measures / Personal Protective Equipment

**Eye/Face Protection** Wear safety glasses with side-shields, chemical safety goggles, or face shield. Use equipment

for eye protection tested and approved under appropriate government standards such as NIOSH

(US) or EN 166(EU).

Skin Protection Handle with gloves. Wear long-sleeved lab coat. Do not wear open-toed shoes.

respirator with cartridges. Respiratory equipment should be tested and approved under

appropriate government standards such as NIOSH (US) or CEN (EU).

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Colourless Liquid **Appearance** Flammable/Explosive Limits Not determined Odour Not determined Vapour Pressure Not determined **Odour Threshold** Not determined **Vapour Density** Not determined pН Not determined **Relative Density** Not determined

Melting Point Not determined Solubility DMSO, MeOH, DMF, DCM, EtOAc

Not determined Partition Coefficient log Kow Not determined **Boiling Point** Flash Point Not determined **Auto-ignition Temperature** Not determined **Evaporation Rate** Not determined **Decomposition Temperature** Not determined Flammability (solid, gas) Not determined Not determined Viscosity

### 10. STABILITY AND REACTIVITY

Reactivity Not reactive

Chemical Stability Stable under recommended storage conditions

Possibility of Hazardous Reactions None expected under normal conditions of storage and use

Conditions to Avoid Open flames, sparks, static discharge, excessive heat

Incompatible Materials Not determined

**Hazardous Decomposition Products** 

Formed under Fire Conditions Carbon oxides

## 11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure Not determined

InhalationMay be harmful if inhaled, may cause respiratory tract irritationSkin ContactMay be harmful in contact with skin, may cause skin irritation

Eye Contact May cause eye irritation

Ingestion May be harmful if swallowed

## 12. ECOLOGICAL INFORMATION

Not determined

### 13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with local, regional, and/or federal regulations.

Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

## 14. TRANSPORT INFORMATION

Not dangerous goods for transport according to IATA, IMDG, or ADR.

## 15. REGULATORY INFORMATION

Canada DSL / NDSL The components of this product are not on the DSL Inventory but are manufactured at <100kg per year.

USA TSCA Negative Certification

## 16. OTHER INFORMATION

Latest Revision 2025-06-09

## **Abbreviations**

ATE	Acute Toxicity Estimate	DSL	Domestic Substances List
$K_{OW}$	Concentration in octanol phase / Concentration in	NDSL	Non-Domestic Substances List
	aqueous phase	TSCA	Toxic Substances Control Act
LC <sub>50</sub>	Median Lethal Concentration	IATA	International Air Transport Association
LD <sub>50</sub>	Median Lethal Dose	IMDG	International Maritime Dangerous Goods
TDLo	Lowest Known Toxic Dose	ADR	Agreement concerning the International Carriage of
EC <sub>50</sub>	Half Maximal Effective Concentration		Dangerous Goods by Road
RTECS	Registry of Toxic Effects of Chemical Substances		