

SAFETY DATA SHEET

Product: TM268 Updated: 2025-06-18

1. IDENTIFICATION

Product Name 1,3,4,6-Tetra-O-acetyl-2-azido-2-deoxy-a-D-mannopyranose

Catalogue Number TM268

Recommended Use 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 1,3,4,6-Tetra-O-acetyl-2-azido-2-deoxy-a-D-mannopyranose Synonym 2-Azido-2-deoxy-a-D-mannopyranose 1,3,4,6-tetraacetate

CAS Number 68733-20-0 Molecular Formula $C_{14}H_{19}N_3O_9$ Molecular Weight 373.32

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.

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

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 Not determined Special Protective Equipment and

Precautions for Firefighters

Specific Hazards Arising from the Hazardous Product

Hazardous Combustion Products Carbon oxides, Nitrogen oxides

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment Use personal protective equipment. Avoid breathing dust, fumes, gas, mist, vapours, or spray.

and Emergency Procedures

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.

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

White Crystalline Solid **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 136-138 °C 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, Nitrogen 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 2025-06-18

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 ₅₀	Median Lethal Concentration	IATA	International Air Transport Association
LD ₅₀	Median Lethal Dose	IMDG	International Maritime Dangerous Goods
TDLo	Lowest Known Toxic Dose	ADR Agreement concerning the International Carriage of Dangerous Goods by Road	
EC ₅₀	Half Maximal Effective Concentration		3
RTECS	Registry of Toxic Effects of Chemical Substances		