

1. IDENTIFICATION

Product Name	β-D-Lactose octaacetate
Catalogue Number	LL809
Recommended Use	Laboratory research and development.
Supplier	Synthose Inc., 50 Viceroy Road, Unit 7, Concord, Ontario, L4K 3A7, Canada
Emergency Phone No.	+1-905-669-0017
Email	admin@synthose.com

2. HAZARD IDENTIFICATION

Classification

Not classifiable according to GHS.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	β-D-Lactose octaacetate
Synonyms	1,2,2',3,3',4',6,6'-Octa-O-acetyl-β-D-lactose, NSC 1690, 4-O-(2,3,4,6-Tetra-O-acetyl-β-D-galactopyranosyl)-β-D-glucopyranose 1,2,3,6-tetraacetate
CAS Number	6291-42-5
Molecular Formula	C ₂₈ H ₃₈ O ₁₉
Molecular Weight	678.59

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 Precautions for Firefighters	Not determined

Specific Hazards Arising from the Hazardous Product

Hazardous Combustion Products	Carbon oxides
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6. ACCIDENTAL RELEASE MEASURES

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

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 8 °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.

Respiratory Protection Use particle respirator for nuisance exposures. For greater protection, use half or full face mask 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

Appearance	White Crystalline Solid	Flammable/Explosive Limits	Not determined
Odour	Not determined	Vapour Pressure	Not determined
Odour Threshold	Not determined	Vapour Density	Not determined
pH	Not determined	Relative Density	Not determined
Melting Point	139-141 °C	Solubility	DCM, DMF, DMSO, EtOAc, MeOH
Boiling Point	Not determined	Partition Coefficient log K_{OW}	Not determined
Flash Point	Not determined	Auto-ignition Temperature	Not determined
Evaporation Rate	Not determined	Decomposition Temperature	Not determined
Flammability (solid, gas)	Not determined	Viscosity	Not determined

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

Inhalation May be harmful if inhaled, may cause respiratory tract irritation

Skin Contact May 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	2020-11-06
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Abbreviations

ATE	Acute Toxicity Estimate	DSL	Domestic Substances List
K_{ow}	Concentration in octanol phase / Concentration in aqueous phase	NDSL	Non-Domestic Substances List
LC₅₀	Median Lethal Concentration	TSCA	Toxic Substances Control Act
LD₅₀	Median Lethal Dose	IATA	International Air Transport Association
TDLo	Lowest Known Toxic Dose	IMDG	International Maritime Dangerous Goods
EC₅₀	Half Maximal Effective Concentration	ADR	Agreement concerning the International Carriage of Dangerous Goods by Road
RTECS	Registry of Toxic Effects of Chemical Substances		