

1. Product and Company Identification

Product Code: 10-1939-xx
Product Name: Spermine Phosphoramidite
Product Use: For Research Use Only

Manufacturer Information
Company Name:

Glen Research LLC
22825 Davis Drive
Sterling, VA 20164 USA
1-703-437-6191

Phone Number:
Web site address:
Email address:

www.glenresearch.com
msds@glenres.com

Information in case of emergency

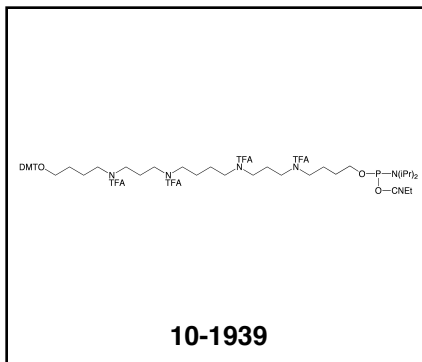
1-703-437-6191

CAS Number:

No data

Synonyms:

N¹-[4-(4,4'-Dimethoxytrityloxy)butyl]-N¹,N⁴,N⁹,N¹²-tetrakis(trifluoroacetyl)-spermine-N¹²-butyl-4-[(2-cyanoethyl)-(N,N-diisopropyl)]-phosphoramidite



2. Hazards Identification

GHS Classification of the substance or mixture

Not a hazardous substance or mixture

Classification according to Regulation (EC) No 1272/2008

GHS Label elements, including precautionary statements

Not a hazardous substance or mixture

Other hazards which do not result in classification

None

3. Composition/Information on Ingredients

Essentially 100% Spermine Phosphoramidite

Product Name	CAS #	Concentration	M.W.	Formula
Spermine Phosphoramidite	No data	100 %	1233.17	C ₅₆ H ₇₃ F ₁₂ N ₆ O ₉ P
Synonyms:	N ¹ -[4-(4,4'-Dimethoxytrityloxy)butyl]-N ¹ ,N ⁴ ,N ⁹ ,N ¹² -tetrakis(trifluoroacetyl)-spermine-N ¹² -butyl-4-[(2-cyanoethyl)-(N,N-diisopropyl)]-phosphoramidite			

The product contains no substance, which at their given concentration, are considered to be hazardous to health.

4. First Aid Measures

Emergency and First Aid Procedures

If inhaled, remove to fresh air.

If not breathing, give artificial respiration.

Get medical attention.

In case of skin contact, immediately wash skin with soap and plenty of water.

Remove contaminated clothing.

Wash clothing before reuse.

Get medical attention if symptoms occur after washing.

If swallowed, rinse mouth with water.

Get medical attention.

If in contact with eyes, rinse cautiously with water for several minutes.

Get medical attention if symptoms occur after washing.

Remove contact lenses if present and continue rinsing.

5. Fire Fighting Measures

Flash Point: No data
Explosive Limits: LEL: No data UEL: No data
Fire Fighting Instructions
A finely divided dust aerosol may be explosive, although the exact conditions of the hazards are unknown.
Wear appropriate protective clothing to prevent contact with skin and eyes.
Wear a self-contained breathing apparatus (SCBA) if necessary.
Flammable Properties and Hazards
No data available.
Hazardous Combustion Products
Oxides of nitrogen, carbon and phosphorous
Suitable Extinguishing Media
Use a Class A Extinguisher (Dry chemical, carbon dioxide, water or foam).
Unsuitable Extinguishing Media
No data available.

6. Accidental Release Measures

Steps To Be Taken In Case Material Is Released Or Spilled
Sweep up bulk of material and finish by wiping with a damp towel. Do not let product enter the drain.
Wear impermeable gloves, safety glasses and a lab coat when cleaning up the spill.
A NIOSH dust mask is recommended when a possibility of dust inhalation exists. Local exhaust is usually sufficient.

7. Handling and Storage

Precautions To Be Taken in Handling
Handle using safe laboratory practices. Avoid all direct contact.
Recommended Storage
Freezer storage, -10 to -30°C, dry
Precautions To Be Taken in Storing
Keep container tightly closed. Store in well-ventilated place.
Other Precautions
Protect from sunlight.

8. Exposure Controls/Personal Protection

<i>Product Name</i>	<i>CAS #</i>	<i>OSHA PEL</i>	<i>ACGIH TLV</i>	<i>Other Limits</i>
Spermine Phosphoramidite	No data	No data	No data	No data

Respiratory Equipment (Specify Type)
A NIOSH dust mask is recommended when a possibility of dust inhalation exists.
Eye Protection
Safety glasses
Protective Gloves
Impermeable gloves
Other Protective Clothing
Normal laboratory apparel
Engineering Controls (Ventilation etc.)
Local exhaust ventilation is usually sufficient
Work/Hygienic/Maintenance Practices
Wash hands after handling

9. Physical and Chemical Properties

Physical State: Gas Liquid Solid
Appearance: Colorless oil
Odor: Odorless
Odor Threshold: No data
pH: No data
Melting Point: No data
Freezing Point: No data
Initial Boiling Point and Boiling Range: No data
Flash Point: No data
Specific Gravity: ~1
Evaporation Rate (Water=1): << 1
Flammability: No data
Explosive Limits: LEL: No data UEL: No data
Vapor Pressure (vs. Air or mm Hg): No data
Vapor Density (vs. Air = 1): No data
Relative Density: No data
Solubility in Water: No data
Partition Coefficient (n-octanol/water): No data
Auto-ignition Temperature: No data
Decomposition Temperature: No data
Viscosity: No data
Percent Volatile: No data

10. Stability and Reactivity

Stability: Unstable Stable
Conditions To Avoid - Instability
Stable under recommended storage conditions.
Incompatibility - Materials To Avoid
Strong oxidizing reagents
Hazardous Decomposition or Byproducts
Oxides of nitrogen, carbon and phosphorous may evolve when heated to decomposition.
Possibility of Hazardous Reactions: Will occur Will not occur
Conditions To Avoid - Hazardous Reactions
Stable material, hazardous polymerization will not occur.

11. Toxicological Information

To the best of our knowledge, the toxicological properties of this substance have not been investigated.
This product should be handled with the usual care when dealing with chemicals.

Product Name	CAS #	NTP	IARC	OSHA
Spermine Phosphoramidite	No data	No data	No data	No data

12. Ecological Information

No data available.

13. Disposal Considerations

Waste Disposal Method

For Product - Observe all federal, state and local regulations.
For Contaminated Packaging - Dispose of in compliance with regulations.
Sweep up bulk of material and finish by wiping with a damp towel. Dispose of unused product.

14. Transport Information

LAND TRANSPORT (49CFR) 49CFR Shipping Name	Not a dangerous material as defined in the regulations.
AIR TRANSPORT (ICAO/IATA) ICAO/IATA Shipping Name	Not a dangerous goods as defined in the regulations.
MARINE TRANSPORT (IMDG/IMO) IMDG/IMO Shipping Name	Not a dangerous goods as defined in the regulations.
Marine Pollutant:	No
Additional Transport Information	Not regulated as a hazardous material or dangerous goods.

15. Regulatory Information

SARA 302 Components: No chemicals in this product are subject to reporting requirements of SARA Title III, Section 302.
California Prop. 65 Components: This product does not contain any chemicals known to State of California to cause cancer, birth defects,
or any other reproductive harm.
SARA 313 Components: This product does not contain any chemical components with known CAS numbers that exceed the threshold reporting levels established by SARA Title III, Section 313.
This product has been reviewed for inclusion on the Candidate List of Substances of Very High Concern (SVHC) REACH – not listed.
This product has been reviewed for inclusion on the Substances Restricted under REACH – not listed

16. Other Information

For all other inquiries about this product contact Glen Research at 1-800-327-GLEN or 1-703-437-6191.

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