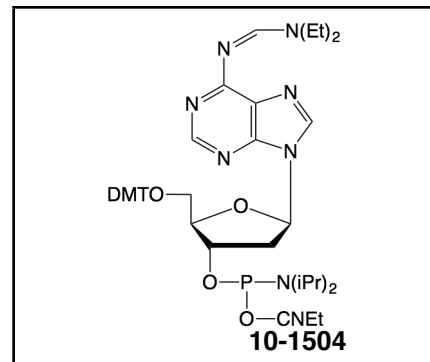


## 1. Product and Company Identification

Product Code: 10-1504-xx  
Product Name: def-dA-CE 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  
www.glenresearch.com  
msds@glenres.com  
Phone Number: 1-703-437-6191  
Web site address: www.glenresearch.com  
Email address: msds@glenres.com  
Information in case of emergency: 1-703-437-6191  
CAS Number: 1456770-85-6  
Synonyms: def-dA-CE Phosphoramidite



## 2. Hazards Identification

### GHS Hazard Statements

H303: May be harmful if swallowed.  
H313: May be harmful in contact with skin.  
H320: Causes eye irritation.  
H333: May be harmful if inhaled.

### GHS Precautionary Statements

P103: Read label before use.  
P232: Protect from moisture.  
P233: Keep container tightly closed.  
P280: Wear protective gloves / protective clothing / eye protection / face protection.

### GHS Response Statements

P301 + 330: IF SWALLOWED: Rinse mouth with water.  
P302 + 350: IF ON SKIN: Gently wash with soap and water.  
P304 + 340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P305 + 351 + 338: IF IN EYES: Rinse cautiously with water for several minutes.  
Remove contact lenses, if present and easy to do so - continue rinsing.  
P306 + 360: IF ON CLOTHING: Rinse contaminated clothing and skin immediately with plenty of water before removing clothes.  
P314: Get medical advice / attention if you feel unwell.  
P362: Take off contaminated clothing and wash before use.

### GHS Storage and Disposal Phrases

P401 Store in a cool, dry place  
P501: Dispose of contents / container in a safe way in accordance with all federal, state and local regulations.

### Emergency Overview

No known OSHA hazards. May cause eye, skin, and respiratory tract irritation.

### Route(s) of Entry:

Inhalation? Yes      Skin? Yes      Eyes? Yes      Ingestion? Yes

**SAFETY DATA SHEET**  
**def-dA-CE Phosphoramidite**  
**(10-1504-xx)**

**Potential Health Effects (Acute and Chronic)**

No data available.

**Recommended Exposure Limits**

No data available.

**LD 50 / LC 50**

No data available.

**Signs and Symptoms of Exposure**

No data available.

**Medical Conditions Generally Aggravated By Exposure**

No data available.

**3. Composition/Information on Ingredients**

| <b>Product Name</b>       | <b>CAS #</b>              | <b>Concentration</b> | <b>M.W.</b> | <b>Formula</b>  |
|---------------------------|---------------------------|----------------------|-------------|---|
| def-dA-CE Phosphoramidite | 1456770-85-6              | 100 %                | 836.97      | C <sub>45</sub> H <sub>57</sub> N <sub>8</sub> O <sub>6</sub> P |
| <b>Synonyms:</b>          | def-dA-CE Phosphoramidite |                      |             |   |

**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.

**SAFETY DATA SHEET**  
**def-dA-CE Phosphoramidite**  
**(10-1504-xx)**

### 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

Refrigerated storage, maximum of 2-8°C, dry and in the dark

#### 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

| Product Name              | CAS #        | OSHA PEL | ACGIH TLV | Other Limits |
|---------------------------|--------------|----------|-----------|--------------|
| def-dA-CE Phosphoramidite | 1456770-85-6 | 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:                          | <input type="checkbox"/> Gas | <input type="checkbox"/> Liquid | <input checked="" type="checkbox"/> Solid |
| Appearance:                              | Off-white foam               |                                 |   |
| 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                    |   |

**SAFETY DATA SHEET**  
**def-dA-CE Phosphoramidite**  
**(10-1504-xx)**

|  |         |
|--|---------|
| 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    |
|---------------------------|--------------|---------|---------|---------|
| def-dA-CE Phosphoramidite | 1456770-85-6 | 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 substance as defined in the regulations.

**AIR TRANSPORT (ICAO/IATA)**

**ICAO/IATA Shipping Name** Not a dangerous substance as defined in the regulations.

**MARINE TRANSPORT (IMDG/IMO)**

**IMDG/IMO Shipping Name** Not a dangerous substance as defined in the regulations.

**Marine Pollutant:** No

**Additional Transport Information**

Not regulated as a hazardous material or dangerous goods.

### **15. Regulatory Information**

#### **Regulatory Information**

SARA 302 Components: No chemicals in this product are subject to reporting requirements of SARA Title III, Section 302.

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.

### **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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