



## CERTIFICATE OF ANALYSIS

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### 1. Identification

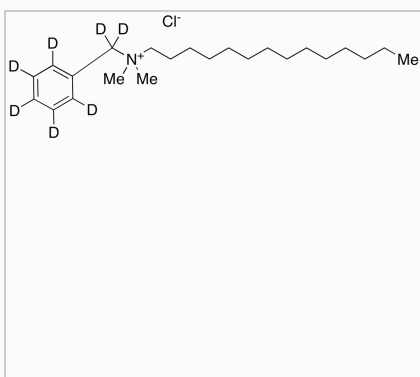
**Catalogue Number:** B276287

**CAS Number:** 1219178-72-9

**Product:** Benzyl dimethyl tetradecyl ammonium-d7 Chloride

**Synonym:** N,N-Dimethyl-N-tetradecylbenzenemethanaminium-d7 Chloride; (Benzyl-d7)dimethyltetradecylammonium Chloride; Arquad DM 14B90-d7; Cation M 2-100R-d7; Cyncal-d7; Dibactol-d7; Myristalkonium-d7 Chloride; Zeph-d7; Zephiramine-d7; Zephiramine-d7 Chloride;

**Structure:**



**Molecular Formula:**

$C_{23}H_{35}D_7ClN$

**Molecular weight:**

375.08

**Source of Product:**

Synthetic

**Solubility:**

Chloroform (Slightly), DMSO (Slightly)

**Lot Number:** 12-VAS-83-3

**Purity:** 98%

**Shipping Condition:** This Product Is Stable To Be Shipped At Room Temperature

**Storage Condition:** 4°C

### 2. Warning

**Warning 1:**

**Warning 2:**

**Warning 3:**

### 3. Analytical Information

Tests:	Specifications:	Results:
Appearance	White to Off-White Solid	White to Off-White Solid
NMR	Conforms to Structure	Conforms
Elemental Analysis	Conforms	%C: 69.79, %H: 10.95, %N: 3.53
MS	Conforms to Structure	Conforms
HPLC Purity	Report Result	98.25% (210 nm)
Chloride Content	Report Result	9.4%
Isotopic Purity	>95%	99.1%

**Additional Information:**

Normalized Intensity: d0 = 0.10%, d1 = 0.01%, d2 = 0.04%, d3 = 0.04%, d4 = 0.02%, d5 = 0.12%, d6 = 4.99%, d7 = 94.67%

Purity is based on the analytical results of the tests performed. NMR and Elemental Analysis (if available) may have an accuracy of  $\pm 2\%$ . Isotopic purity is based on mass distribution observed. The contents of the specifications are subject to change without advance notice, and the specification values displayed here are the most up to date values.

### 4. Signatures

**Reviewed By**

Nicole Yip



**Reviewed By**

Toni Rantanen



**C of A Approved  
By**

Christina Gouliaras



**Test Date**

8/17/2023

**Retest Date**

8/15/2027