

## Certificate of Analysis

Date of Testing: 2024-04-17 10:14:19

Date of Next Testing: 2026-04-17 10:14:19

Product Name: 4-Hydroxymethyl-2,6,7-trioxa-1-phosphabicyclo[2.2.2]octane 1-oxide

CAS Number: 5301-78-0

Specifications & Purity: ≥98%

Lot #: D2411287

SKU #: H138950

Analysis: 347729

| Parameter            | Limit Values                                     | Result                                           |
|----------------------|--------------------------------------------------|--------------------------------------------------|
| Melting point        | 209-213 (°C)                                     | 210.82000 °C                                     |
| Purity(HPLC area)    | 98-100 (%)                                       | 99.71 %                                          |
| Appearance (H138950) | White to almost white powder or solid or crystal | White to almost white powder or solid or crystal |
| Proton NMR spectrum  | Conforms to Structure                            | Conforms to Structure                            |



John Su  
QA & QC Manager