

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2022-06-15 14:10:05

Date of Next Testing: 2024-06-14 14:10:05

Product Name:  **$\alpha$ -Methylene- $\gamma$ -butyrolactone**

CAS Number: 547-65-9

Specifications & Purity:  $\geq 95\%$ , contains ~2% 2,6-di-tert-butyl-p-cresol as stabilizer

Lot #: H1809041

SKU #: M108009

Version: 0

Analysis #: 100060

Storage Temperature: Store at 2-8°C, Protected from light, Argon charged

| Parameter                                   | Limit Values                     | Result                           |
|---------------------------------------------|----------------------------------|----------------------------------|
| Purity(GC)                                  | 95-100 (%)                       | 97.70300 %                       |
| Refractive index n <sub>20</sub> /D         | 1.471-1.475                      | 1.47300                          |
| Density (20°C)                              | 1.119-1.126                      | 1.12100                          |
| Appearance (M108009)                        | Colorless to light yellow liquid | Colorless to light yellow liquid |
| Infrared spectrum                           | Conforms to Structure            | Conforms to Structure            |
| Proton NMR spectrum                         | Conforms to Structure            | Conforms to Structure            |
| Stabilizer (~2% 2,6-Di-tert-butyl-p-cresol) | Conforms                         | Conforms                         |



John Su  
QA & QC Manager