

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2025-09-10 15:41:29

Date of Next Testing: 2026-03-09 15:41:29

Product Name: **Titanium butoxide(TNBT)**

CAS Number: 5593-70-4

Specifications & Purity:  $\geq 99\%$

Lot #: I2501145

SKU # **T104105**

Version **0**

**Analysis #:** **550320**

Storage Temperature: Room temperature, Argon charged, Desiccated, Cool

| Parameter                                                      | Limit Values                                       | Result                                             |
|----------------------------------------------------------------|----------------------------------------------------|----------------------------------------------------|
| Refractive index n <sub>20</sub> /D                            | 1.489-1.493                                        | 1.49180                                            |
| Ti(Gravimetric Analysis After Ignition to 13.6-14.6 (%) Oxide) |                                                    | 14.25000 %                                         |
| Ignition Residue                                               | 23.2-24.5 (%)                                      | 23.25000 %                                         |
| Density (20°C)                                                 | 0.996-1.007                                        | 0.99600                                            |
| Appearance (T104105)                                           | Colorless to light yellow liquid or viscous liquid | Colorless to light yellow liquid or viscous liquid |
| Proton NMR spectrum                                            | Conforms to Structure                              | Conforms to Structure                              |



John Su  
QA & QC Manager