

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2024-09-25 11:21:52
Date of Next Testing: 2025-03-24 11:21:52
Product Name: **Titanium butoxide(TNBT)**
CAS Number: 5593-70-4
Specifications & Purity: $\geq 99\%$
Lot #: I2418221
SKU #: **T104105**
Version: **0**
Analysis #: **407845**
Storage Temperature: Room temperature, Argon charged, Desiccated, Cool

| Parameter | Limit Values | Result |
|--|--|--|
| Refractive index n _{20/D} | 1.489-1.493 | 1.49240 |
| Ti(Gravimetric Analysis After Ignition to Oxide) | 13.6-14.6 (%) | 14.54000 % |
| Ignition Residue | 23.2-24.5 (%) | 23.20000 % |
| 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