

## Certificate of Analysis

Date of Testing: 2022-06-05 21:18:42

Date of Next Testing: 2026-06-04 21:18:42

Product Name: **3,3'-Dibromo-2,2'-bithiophene**

CAS Number: 51751-44-1

Specifications & Purity: 98%

Lot #: F2201204

SKU #: **D123552**

**Analysis:** **083494**

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

| Parameter                                                                | Limit Values                                      | Result                                            |
|--------------------------------------------------------------------------|---------------------------------------------------|---------------------------------------------------|
| Purity(O <sub>2</sub> AgNO <sub>3</sub> titration with after combustion) | 97.5-102.5 (%)                                    | 100.10 %                                          |
| Melting point                                                            | 97-101 (°C)                                       | 100.58000 °C                                      |
| Purity(GC)                                                               | 98-100 (%)                                        | 99.48 %                                           |
| Appearance (D123552)                                                     | White to Yellow to Tan Powder, Crystals or Flakes | White to Yellow to Tan Powder, Crystals or Flakes |
| Proton NMR spectrum                                                      | Conforms to Structure                             | Conforms to Structure                             |



John Su  
QA & QC Manager