

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-04-27 11:11:44  
Date of Next Testing: 2027-04-26 11:11:44  
Product Name: **Tungsten hexacarbonyl**  
CAS Number: 14040-11-0  
Specifications & Purity: 99.9% metals basis  
Lot #: D2318385  
SKU #: **T113663**  
Analysis: **188606**

| Parameter                                       | Limit Values             | Result                   |
|-------------------------------------------------|--------------------------|--------------------------|
| W(Gravimetric Analysis)                         | 50.4-54 (%)              | 52.23%                   |
| Total Metallic Impuritie                        | 0-1000 (ppm)             | 962.00 ppm               |
| Purity(Based on Trace Metals Impurities of ICP) | 99.9-100 (%)             | 99.90%                   |
| Appearance (T113663)                            | White Powder or Crystals | White Powder or Crystals |
| ICP: Confirms Tungsten Component                | Confirmed                | Confirmed                |
| Infrared spectrum                               | Conforms to Structure    | Conforms to Structure    |



John Su  
QA & QC Manager