

## Certificate of Analysis

Date of Testing: 2022-08-13 11:27:50  
Date of Next Testing: 2026-08-12 11:27:50  
Product Name: **Tungsten sulfide**  
CAS Number: 12138-09-9  
Specifications & Purity: 99.9% metals basis, 2  $\mu\text{m}$   
Lot #: H2202555  
SKU #: **T107763**  
Analysis: **101942**

Parameter	Limit Values	Result
Particle size	1-5 ( $\mu\text{m}$ )	1.72 $\mu\text{m}$
W(Gravimetric titration with cinchonine)	73-75.3 (%)	73.37%
Purity(Based On Trace Metals Analysis)	99.9-100 (%)	99.93%
Total Metallic Impurities	0-2000 (ppm)	654.00 ppm
Appearance (T107763)	Dark Grey to Black Powder	Dark Grey to Black Powder
ICP: Confirms W and S Component	Confirmed	Confirmed
X-Ray Diffraction	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager